€ 22.-

# RAD BOOK 2023

The Guide to Imaging Technology and Informatics in Europe

Vol. 17

# GMM GROUP

Driving the future of Radiology

GMM · IMS Giotto · PrimaX · D/VISION lab artificial intelligence · M.T. Medical Technology s.r.l. · Merate Power · imd China · italform · MED VET

www.gmmspa.com

# Dear reader,

A very wise person once said "We recognize freedom and health only after they are gone". During the Covid-19 pandemic we all experienced the truth of this quote first-hand. And we are experiencing it again with a war being waged in Europe – a war which forces millions of people to leave their home and which makes adequate medical care difficult, if not impossible. This is why innovative products that provide mobile and flexible imaging solutions are more important than ever – and they are being developed as the new issue of our RADBook clearly shows. It offers a comprehensive overview of the entire range of radiology equipment, from large diagnostic systems to state-of-the-art AI applications and innovative accessories.

Many companies have recognized that climate protection and sustainability are relevant topics for radiology. Consequently, they are creating products that reduce both carbon footprint and energy consumption or that apply deep learning models to minimize contrast media dose in order to stop water pollution. Without digitalization, however, all these efforts would be impossible. This is why we continue to highlight IT and AI.

Get inspired by the many promising innovations – and by our thought-provoking feature articles.

Enjoy reading!

S. Buske

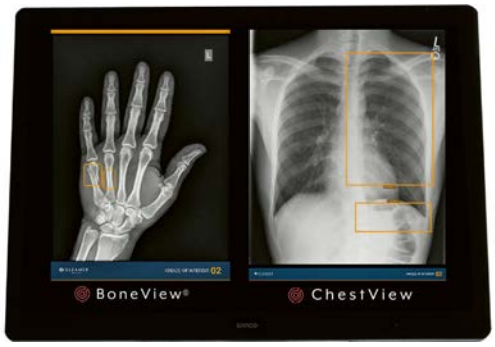
**Sonja Buske**
Specialist Editor Healthcare

# Contents



# Products & Solutions





## Index of Advertisers

# Computed Tomography

**Photon-counting CT**

## Siemens Healthineers · Naeotom Alpha

| Power | Gantry bore | Scan speed |
|---|---|---|
| 240 kW | 82 cm | Up to 737 mm/s |

**Highlights**

- World's first photon-counting CT system
- Dual Source CT with two QuantaMax photon-counting detectors
- Significant improvements in spatial resolution, image contrast, signal-to-noise ratio, dose efficiency
- Spectral information available in every scan, even at full scan speed and temporal resolution
- myExam Companion is an intelligent approach to simplify scanner operation
- Patient-friendly design with an 82 cm bore and a tablet-based mobile workflow to maximize patient proximity

- Expand patient reach, see finest details, have all relevant information available in single scan, ensure consistent measurements

**Dual Source CT**

## Siemens Healthineers · Somatom Drive

| Power | Gantry bore | Scan speed |
|---|---|---|
| 200 kW | 78 cm | Up to 458 mm/s |

**Highlights**

- Tin Filters – a new level of Care, bring CT doses to those expected in a routine X-ray series
- Straton MX Sigma X-ray tube with high power 70 & 80 enables lower doses with consistent image quality
- 10 kV steps allow for the most precise dose values for every single patient
- FAST integrated workflow with FAST 3D Camera drives precision in patient positioning

- Dual Source Dual Energy
- Temporal resolution: 75 ms

**Dual Source CT**

## Siemens Healthineers · Somatom Force

| Power | Gantry bore | Scan speed |
|---|---|---|
| 240 kW | 78 cm | Up to 737 mm/s |

**Highlights**

- Bring image quality to the next level with Vectron X-ray tube (Replace with low dose early)
- Significantly reduced contrast media amounts required with low kV imaging
- Ultra low dose and "free-breathing" CT with outstanding native temporal resolution
- FAST integrated workflow with FAST 3D Camera to get two steps ahead in patient positioning

- Dual Source Dual Energy
- Dynamic imaging up to 80 cm
- Temporal resolution: 66 ms (full body)

**Volume CT**

## Fujifilm · Scenaria View

| Power | Gantry bore | Scan range |
|---|---|---|
| 72 kW (84 kW optional) | 80 cm | 200 cm |

**Highlights**

- Open design concept with aperture diameter of 800 mm
- New algorithms for iterative reconstruction: Intelli IPV
- SynergyDrive optimizes the workflow with Fujifilm's automation and acceleration technology
- Minimum scan time for all types of examination: 0.35 seconds/rotation
- Minimum slice thickness: 0.625 mm

- Unique laterally moving patient table (total: 200 mm)
- 650 mm wide patient table with weight limit of 250 kg
- Slices per rotation 64 / 128
- Dual Energy Scan

**Volume CT**

## Fujifilm · Scenaria View Focus Edition

| Power | Gantry bore | Scan range |
|---|---|---|
| 72 kW (84 kW optional) | 80 cm | 200 cm |

**Highlights**

New Scenaria View Focus Edition CT scanner helps clinicians to capture clear images of the heart, even on the most challenging heart rhythms, using advanced cardiac motion correction. Furthermore, SynergyDrive workflow solutions accelerate workflows, and the new operator console uses the same interface as Synapse 3D technology, allowing for quick and easy operation.

**Volume CT**

## Fujifilm · Supria 64 / 128

| Power | Gantry bore | Scan range |
|---|---|---|
| 51 kW | 75 cm | 180 cm |

**Highlights**

- Sub-second scan time for all examinations
- 0.625 mm minimum slice thickness
- 75 cm wide gantry bore for improved patient experience
- The compact footprint needs small installation space
- Iterative reconstruction algorithm for low dose examinations: Intelli IP Advanced

- Intuitive GUI design with 24-inch wide monitor
- Slices per rotation: 64 / 128
- System footprint: 13.5 $m^2$


# get up

## The swivelling handle system for radiology

### Safety for patients and health benefits for personnel

Febromed GmbH & Co. KG, the expert in delivery room equipment and medical accessories from Oelde, Germany, has developed 'get up', an innovative handle system for radiology. The new swivelling system was installed for the first time in a state-of-the-art CT scan room at the Institute of Diagnostic and Interventional Radiology and Neuroradiology at Essen University Hospital.

### For a secure grip

Many patients find getting onto the examination table for a CT scan difficult. In particular, restricted mobility leads to uncertainty as the patient is positioned and arranged, thus placing increased physical strain on care personnel, predominately in the back area. The new 'get up' handle system from Febromed offers a solution: this swivelling system helps patients get onto the table before their scan and stand up again safely and comfortably afterwards. It minimises the risk of falling and provides a secure grip. It helps personnel by reducing the physical strain of their job. As a result, the organisation as a whole benefits: since the actual physical strain on personnel is significantly reduced, employee sick leave due to back pain is also minimised.

### Positive experiences

After installing the handle system in May 2017, the Institute of Diagnostic and Interventional Radiology and Neuroradiology at Essen University Hospital has consistently had positive experiences. As Anton S. Quinsten, Ltd. MTRA, reports, "We are really happy with the 'get up' system from Febromed. The first few months have shown that the handle system is considered a real asset by both patients and personnel."

### Space-saving and durable

The 'get up' handle system is designed for space-saving mounting on the ceiling and can be swivelled by 360°. The structure can be locked in 15° increments so that the system is always in the optimal position for the patient. This purely mechanical construction ensures easy handling and extended durability.

*www.febromed.com*

**Volume CT**

## Siemens Healthineers · Somatom Edge Plus

| Power | Gantry bore | Scan speed |
|---|---|---|
| 100 kW | 78 cm | Up to 230 mm/s |

**Highlights**

- Tin Filters – bringing CT doses to those expected in a routine X-ray series
- FAST integrated workflow with FAST 3D Camera drives precision in patient positioning
- High power 70 & 80 and 10 kV steps helps to obtain high quality images despite large patient diversity
- Cardiac and 4D imaging at high quality and low dose
- TwinBeam Dual Energy without dose penalty
- Pitch of up to 1.7 allows scanning of 230 mm/s thus minimizing motion artifacts

**Volume CT**

## Siemens Healthineers · Somatom go.Top

| Power | Gantry bore | Scan speed |
|---|---|---|
| 75 kW | 70 cm | Up to 175 mm/s |

**Highlights**

- myExam Companion as unique approach in CT operation powered by AI, designed to optimize the exam to the individual patient
- Unique workflow solution with mobile workflow, GO Technologies and FAST 3D Camera
- myNeedle Companion supports targeted needle path planning
- Low-kV imaging, 10 kV steps, Tin Filter, Stellar detector and iterative reconstruction enable dose-optimized scanning
- High temporal resolution for excellent cardiac imaging
- Holistic spectral imaging solution with TwinSpiral and TwinBeam Dual Energy
- System footprint: 4 $m^2$

**Volume CT**

## Siemens Healthineers · Somatom X.ceed

| Power | Gantry bore | Scan speed |
|---|---|---|
| 105 kW | 82 cm | Up to 216 mm/s |

**Highlights**

- myExam Companion is an intelligent approach to simplify scanner operation
- myNeedle Companion supports targeted needle path planning and laser guidance
- FAST 3D Camera drives precision in patient positioning
- Patient-friendly design with an 82 cm bore and a tablet-based mobile workflow to maximize patient proximity
- High power, speed, spatial and temporal resolution (0.25 s rot.), for advanced cardiac, spectral, emergency or Ultra High Resolution studies at low dose

**Volume CT**

## Siemens Healthineers · Somatom X.cite

| Power | Gantry bore | Scan speed |
|---|---|---|
| 105 kW | 82 cm | Up to 218 mm/s |

**Highlights**

- myExam Companion is an intelligent approach to simplify scanner operation
- myNeedle Companion supports targeted needle path planning and laser guidance
- FAST 3D Camera drives precision in patient positioning
- Patient-friendly design with an 82 cm bore and a tablet-based mobile workflow to maximize patient proximity
- Large power reserves of 1200 mA with low-kV and Tin Filter for dose-optimized scanning even for bigger patients
- Cardiac, spectral and 4D imaging

**20 to 64 Slices**

## Fujifilm · FCT Speedia HD

| Power | Gantry bore | Scan range |
|---|---|---|
| 72 / 108 kW | 75 cm | 175 / 195 cm |

**Highlights**

- 5 MHU tube
- Sub second scan time for all applications
- 0.675 mm minimum slice thickness
- Wide bore gantry for improved patient experience and operators' practice
- Compact footprint to maximize easiness of installation
- Advanced iterative reconstruction to allow low dose examinations
- Intuitive GUI with 24-inch color display
- Slices per rotation: 64 / 128
- System Footprint: 13.5 $m^2$

**20 to 64 Slices**

## Fujifilm · Supria 16 / 32

| Power | Gantry bore | Scan range |
|---|---|---|
| 51 kW | 75 cm | 180 cm |

**Highlights**

- 5 MHU X-ray tube
- Sub-second scan time for all examinations
- 0.625 mm minimum slice thickness
- 75 cm wide gantry bore for improved patient experience
- The compact footprint needs small installation space
- Iterative reconstruction algorithm for low dose examinations: Intelli IP Advanced
- Intuitive GUI design with 24-inch wide monitor
- Slices per rotation: 16 / 32
- Field of view: 500 mm

**20 to 64 Slices**

## Siemens Healthineers · Somatom go.All

| Power | Gantry bore | Scan range |
|---|---|---|
| 75 kW | 70 cm | Up to 200 cm |

**Highlights**

- myExam Companion as unique approach in CT operation powered by AI, designed to optimize the exam to the individual patient
- Unique workflow solution with mobile workflow, GO Technologies and FAST 3D Camera
- myNeedle Companion supports targeted needle path planning
- Low-kV imaging, 10 kV steps, Tin Filter, Stellar detector and iterative reconstruction enable dose-optimized scanning
- System footprint: 4 $m^2$
- High temporal resolution and workflow automation facilitate easy cardiac examinations
- Holistic spectral imaging solution with TwinSpiral Dual Energy

**20 to 64 Slices**

## Siemens Healthineers · Somatom go.Now

| Power | Gantry bore | Scan range |
|---|---|---|
| 32 kW | 70 cm | Up to 160 cm |

**Highlights**

- myExam Companion as unique approach in CT operation powered by AI, designed to optimize the exam to the individual patient
- Unique workflow solution with mobile workflow and GO Technologies
- myNeedle Companion supports targeted needle path planning
- Tin Filter technology enables ultra-low dose-optimized scanning at the levels of conventional X-ray
- The Stellar detector keeps electronic noise low and increases dose efficiency
- System footprint: 4 $m^2$
- Longer lasting Chronon tube minimizes downtime and maximizes throughput
- Holistic spectral imaging solution with TwinSpiral Dual Energy

**20 to 64 Slices**

## Siemens Healthineers · Somatom go.Up

| Power | Gantry bore | Scan range |
|---|---|---|
| 32 kW | 70 cm | Up to 200 cm |

**Highlights**

- myExam Companion as unique approach in CT operation powered by AI, designed to optimize the exam to the individual patient
- Unique workflow solution with mobile workflow, GO Technologies and FAST 3D Camera
- myNeedle Companion supports targeted needle path planning
- Tin Filter technology enables ultra-low dose-optimized scanning at the levels of conventional X-ray
- The Stellar detector keeps electronic noise low and increases dose efficiency
- Holistic spectral imaging solution with TwinSpiral Dual Energy
- First level cardiac assessment supported by calcium scoring evaluation
- System footprint: 4 $m^2$

**2 to 16 Slices**

## Fujifilm · FCT Speedia

| Power | Gantry bore | Scan range |
|---|---|---|
| 48 kW | 75 cm | 110 cm |

**Highlights**

- 5 MHU tube
- Sub second scan time for all applications
- 0.675 mm minimum slice thickness
- Wide bore gantry for improved patient experience and operators' practice
- Compact footprint to maximize easiness of installation
- Advanced iterative reconstruction to allow low dose examinations
- Intuitive GUI with 24-inch color display
- Slices per rotation: 16 / 32
- System Footprint: 13.5 $m^2$

**Mobile CT**

## Siemens Healthineers · Somatom On.site

| Power | Gantry bore | Slices |
|---|---|---|
| 35 kW | 35 cm | 32 |

**Highlights**

- Reduce in-hospital patient transports from the ICU to the radiology department by bringing the scanner to the patient instead of the other way around
- Consistent and reliable Somatom image quality at the point-of-care
- Stellar detector with low image noise for neuroimaging
- Iterative reconstruction and metal artifact reduction (iMAR and SAFIRE)
- Self-shielded system design for in-room patient scanning
- All-in-one concept with integrated accessories, e.g., shoulder board and head holder for neuroimaging
- Real mobility including integrated front camera for easy maneuvering

# NAEOTOM Alpha®
# with Quantum Technology
# CT redefined.


*Courtesy of Erasmus Medical Center, Rotterdam, The Netherlands*

## The world's first photon-counting CT

NAEOTOM Alpha with Quantum Technology, the world's first photon-counting CT, is nothing less than the reinvention of computed tomography.

Based on the revolutionary direct signal conversion of its QuantaMax detector, NAEOTOM Alpha offers high-resolution images at minimal dose, spectral information in every scan, and improved contrast at lower noise.

Benefit from a range of clinical options and break-through consistency never seen before in conventional CT scanners – for potentially scanning previously excluded patients and confident clinical-decision making.

**siemens-healthineers.com/NAEOTOM-Alpha**

SIEMENS Healthineers

### Cone Beam CT

## Planmed Oy · Verity

| FOV | Scan time | Pixel size |
|---|---|---|
| 13 × 16 cm | 18 s | 127 µm |

**Highlights**

- Cone Beam CT (CBCT) scanner dedicated to extremity and head and neck imaging
- Weight-bearing imaging
- kV range 80 - 96
- High quality 3D-imaging with Planmeca Ultra Low Dose
- Advanced artefact removal algorithms
- Compact, mobile, easy to site
- Motorized, soft-surface gantry adapts to the patient

### Oncology CT

## Siemens Healthineers · Somatom go.Open Pro

| Power | Gantry bore | Scan speed |
|---|---|---|
| 75 kW | 85 cm | Up to 200 mm/s |

**Highlights**

- Direct i4D: First 4D CT scan mode to adapt to breathing patterns in real time for dramatic motion artifact reduction
- 4 cm detector coverage and 0.35 s rotation times for deep inspiration breath-hold scanning
- DirectORGANS: AI-powered organs-at-risk contouring directly at the CT console for advanced contouring results
- TwinSpiral Dual Energy scanning and Tin filter for less variability in target contouring
- Direct Laser: Seamless integration of patient marking lasers and laser QA for time saving and error avoidance

- 227/307 kg patient table ( TG-66 compliant) with flat table top
- Large bore of 85 cm with 60 cm true scan Field of View; recon. slices per rotation: 128

### Oncology CT

## Siemens Healthineers · Somatom go.Sim

| Power | Gantry bore | Scan speed |
|---|---|---|
| 75 kW | 85 cm | Up to 200 mm/s |

**Highlights**

- DirectORGANS: AI-powered organs-at-risk contouring directly at the CT console for consistent results
- Direct Laser: Seamless integration of patient marking lasers and laser QA for time saving and error avoidance
- Mobile workflow: Re-designed workflows with mobile tablet and Sim&GO technology to increase efficiency and patient satisfaction
- Precise target contouring with optimum kV imaging and a single calibration curve thanks to DirectDensity
- Comprehensive 4D workflow for respiratory motion management with FAST 4D

- 227 / 307 kg patient table (TG-66 compliant) with flat table top
- Large bore of 85 cm with 60 cm true scan field of view; recon. slices per rotation: 64

### Oncology CT

## Siemens Healthineers · Somatom go.Up RT

| Power | Gantry bore | Scan speed |
|---|---|---|
| 32 kW | 70 cm | Up to 200 mm/s |

**Highlights**

- Precision for OAR contouring with AI-Rad Companion Organs RT
- Seamless and less error-prone processes thanks to the new mobile workflow with Sim&GO and Direct Laser Steering
- Confident tumor visualization thanks to automated metal artifact reduction with iMAR
- Precise target contouring with optimum kV imaging and a single calibration curve thanks to DirectDensity

- Comprehensive 4D workflow for respiratory motion management with FAST 4D
- 227 / 307 kg patient table (TG-66 compliant) with flat table top

### Accessories / Complementary Systems

## Canon Electron Tubes & Devices · LM-CT Tube

**Highlights**

- For CT systems (2MHU to 4MHU)
- Uses a liquid metal bearing
- Supports 0.5 s full scans
- Our unique liquid metal bearing technology uses an all-metal target, enabling high anode heat dissipation with low noise and long bearing life

### Accessories / Complementary Systems

## Dunlee · 3D printed pure tungsten anti-scatter grids

**Highlights**

- Maximum design freedom
- Small feature size of 80 µm
- Less X-ray scatter for premium image quality
- Improved and simplified assembly processes that save costs
- Access to top-level detection and grid design expertise to co-create from conceptualization to mass production

Accessories / Complementary Systems

## Dunlee · CT Replacement Tube DA200P40+LMB

**Highlights**
The LMB DA200P40+LMB tube with Dunlee CoolGlide technology is specifically designed for use as a replacement tube on the GE Revolution Evo* and Optima 660 CT* scanners. Each tube is built according the highest quality and regulatory standards.

**The products listed may be trademarks of the OEM. For the latest information regarding the compatibility of CT replacement tubes and scanners, please refer to our cross-reference guide at dunlee.com*

Accessories / Complementary Systems

## Dunlee · CT Replacement Tubes

**Highlights**
Dunlee's CT replacement tubes:
- Meticulously engineered to be compatible with a variety of popular GE scanners
- Offer excellent quality
- Tube stocks at major airport hubs in the United States, Europe and Asia

Accessories / Complementary Systems

## Dunlee · Xceed CT Product Bundle

**Highlights**
- Fast time-to market: pre-integrated bundles including X-ray tube, generator, cooling unit and cables
- Provides CoolGilde Liquid Metal Bearing advantages in value and performance CTs
  - High patient throughput and fast workflow
  - longer life than ball bearing tubes for cost savings
  - differentiation in warranty and service models
- Tube Options:
  - CT3000 X-ray tube ( MHU 19 eff., 80 kW, Gantry Speed 120 RPM)
  - CT4000 X-ray tube ( MHU 25 eff., 60 kW, Gantry speed up to 180 RPM)

Accessories / Complementary Systems

## Dunlee · Xpert CT Product Bundle

**Highlights**
- Most advanced solution in our CT portfolio
- Fast time-to market: pre-integrated bundles including X-ray tube, generator, cooling unit and cables
- X-ray tube with CoolGlide liquid metal bearing and flat emitter for fast workflow and high reliability
- Nearly arc-free; Less than 1 scan-interrupting arc in 3 years
- High cooling capacity of 30 MHU eff. due to unipolar tube design
- Enables fast gantry rotation up to 245 RPM
- Tube options:
  - CT6000 (8 cm coverage, 100 kW)
  - CT6500 (8 cm coverage, 120 kW)
  - CT8000 (16 cm coverage, 100 KW)

Accessories / Complementary Systems

## Febromed · Get Up

**The swivelling handle system for radiology offers the following highlights:**

For the patients
- Independent moving
- Safe support in any position
- Safe motion for seniors and disabled people

For the staff
- Ergonomic working
- Reduced physical workload
- Fast changing of the sling

For the facility
- Various combinations with existing systems
- Small space requirement
- Mounting on wall, floor or ceiling on customer request

Accessories / Complementary Systems

## I.A.E. · RTC 165

**Highlights**
- Replacement for GE Scanners: Sytec 6,000 / 8,000 Prospeed, Hispeed Dxi, Fxi, Lxi CT/i Advantage
- Reloaded in original CT Housing
- Careful refurbishing of original casing
- Replacing of all wear subject components
- Special cathode processing for reliable current emission
- Controlled thickness window for consistent HVL

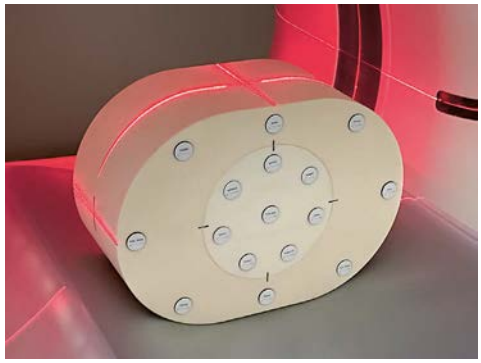
Accessories / Complementary Systems

## IMD Generators · Monobloc X-ray Generator

**Highlights**
- Single Tank X-ray Generator, all alluminium cased
- Properly developed and designed for the CT application
- Power available from 3.5 kW up to 15 kW
- Kv range from 40 up to 120 kV
- Rotating Anode Tube
- Customised Product according to the customer's technical requirements

Accessories / Complementary Systems

## PTW · Comprehensive Electron Density Phantom



**Highlights**
- Suitable for the creation of the electron density calibration curve of computed tomography (CT) scanners for treatment planning systems (TPS)
- Suitable for electron, photon, and proton therapy systems
- 16 ICRU-conformal tissue-equivalent rods

Accessories / Complementary Systems

## PTW · Cone-Beam Phantom


**Highlights**
- Testing the imaging performance of cone-beam and flat-panel CT scanners
- Provides different low contrast sections and spatial resolution bar patterns
- Allows MTF measurements in different orientations
- Two models available: basic and expert

Accessories / Complementary Systems

## PTW · Thorax Phantom

**Highlights**
- For testing the influence of scan parameters in CT
- Includes spine and lung lobes
- Dosimetry option available
- Customizable

Accessories / Complementary Systems

## Ultrasound Technologies · Medic$CO_2$LON


**Highlights**
Colonic insufflator for CT colonography.
The Medic$CO_2$LON provides automated colonic distension with $CO_2$ gas for CT colonography procedures, providing reliable colon distension while improving patient comfort.
- State-of-the-art design allowing ease of operation
- Near silent operation
- Large, colour touchscreen LCD
- LED backlight and wide view angle
- Compact, lightweight design
- Multilingual interface
- Locking connectors

# Magnetic Resonance Imaging

PET / MRI

## Siemens Healthineers · Biograph mMR

| Gradient | Slewrate | Channels |
|---|---|---|
| 45 mT / m[1] | 200 T / m / s[1] | Up to 102 × 32 |

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously*

**Highlights**

- Largest customer base of installed PET-MR systems worldwide
- State-of-the-art 3T MRI with 2nd order shim
- Comprehensive set of surface coils available for full range of MR-only exams
- Not only simultaneous, but synergistic PET-MR: MR-based motion compensation of PET images
- Whole-body MR-based PET attenuation correction including major bones
- Up to 10 bed positions with PET-MR
- Available with *syngo* MR E11 software

7 Tesla

## Siemens Healthineers · Magnetom Terra.X*

| Gradient | Slewrate | Channels |
|---|---|---|
| 130 mT / m[1] | 250 T / m / s[1] | 8 Tx, 64 Rx |

**Highlights**

- Innovative Ultra IQ Technology including dynamic pTx will enable to leverage the full potential of 7T MRI
- Deep Resolve will lead to previously unheard resolution and acquisition speed
- Multinuclear MR will open a window into physiology with sodium imaging and phosphorus spectroscopy
- Deployment of custom reconstruction algorithms seamlessly into clinical workflows while fostering open and collaborative innovation will be enabled by Open Recon[2]

** The product is still under development and not commercially available. Its future availability cannot be ensured.*
[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*
[2] *Open Recon is to add clinical reconstructions to the system, if signed and released for clinical use by Siemens Healthineers. Any other image reconstruction used, e.g., by researchers, is automatically labelled not for diagnostic use, which may require observation of national regulations.*

3 Tesla

## Siemens Healthineers · Magnetom Cima.X*

| Gradient | Slewrate | Channels |
|---|---|---|
| 200[1] mT / m | 200 T / m / s | Up to 204 × 228[2] |

**Highlights**

- Our strongest 3T MRI system ever that will feature Gemini Gradients with 200[1] mT/m at 200 T/m/s, the highest gradient strength in a whole-body scanner ever
- Multi-GPA Technology with two separate gradient power amplifiers will enable unmatched gradient amplitude and maximum spatial resolution
- Magnetom Cima.X will feature next generation Deep Resolve, our deep learning image reconstruction technology
- Deployment of custom reconstruction algorithms seamlessly into clinical workflows while fostering open and collaborative innovation will be enabled by Open Recon[3]

** The product is still under development and not commercially available. Its future availability cannot be ensured.*
[1] *≥ 200 mT/m (±3% for design tolerances).*
[2] *Channels (coil elements) that can be connected simultaneously.*
[3] *Open Recon is to add clinical reconstructions to the system, if signed and released for clinical use by Siemens Healthineers. Any other image reconstruction used, e.g., by researchers, is automatically labelled not for diagnostic use, which may require observation of national regulations.*

3 Tesla

## Siemens Healthineers · Magnetom Lumina with BioMatrix

| Gradient | Slewrate | Channels |
|---|---|---|
| 36 mT/m[1] | 200 T/m/s[1] | 180 x 32 |

**Highlights**

- 3T magnet with 70 cm Open Bore and large 55 × 55 × 50 cm³ FOV
- With Deep Resolve, our new AI-powered advanced image reconstruction technology
- Unique BioMatrix Technology
- Turbo Suite acceleration packages for 2D and 3D scans cross body
- myExam Companion breaks the barriers of complex MRI operations
- Unique patient-centered coil portfolio powered by BioMatrix and Tim 4G technology
- Latest applications available with syngo MR XA60A[2]

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*
[2] *The product is still under development and not commercially available. Its future availability cannot be ensured.*

3 Tesla

## Siemens Healthineers · Magnetom Vida with BioMatrix

| Gradient | Slewrate | Channels |
|---|---|---|
| Up to 60 mT / m[1] | 200 T / m / s[1] | Up to 228 × 128 |

**Highlights**

- The first MRI scanner with BioMatrix Technology
- 3T magnet with 70 cm Open Bore and large 55 × 55 × 50 cm³ FOV
- Up to 60 / 200 XT gradients – for up to 25 % higher SNR for DWI
- With Deep Resolve, our new AI-powered advanced image reconstruction technology
- Explore new diagnostic frontiers based on quantitative information with MR Fingerprinting[2]
- Latest applications available with *syngo* MR XA60A[3]

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously*
[2] *MR Fingerprinting is not for sale in the U.S. Its future availability cannot be ensured.*
[3] *The product is still under development and not commercially available. Its future availability cannot be ensured.*

1.5 Tesla

## Fujifilm · Echelon Smart

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT / m | 130 T / m / s | 16 |

**Highlights**

- "SmartQuality" for superb clinical images and sophisticated applications
- "SmartSpeed" for reduced examination time
- "SmartCOMFORT" for an extraordinary quiet patient experience
- "SmartECO" for low running costs
- "SmartSpace" to offer the smallest possible installation footprint
- Field strength: 1.5 T

1.5 Tesla

## Fujifilm · Echelon Smart Plus

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m | 130 T/m/s | 16 |

**Highlights**

- IP-Rapid, the latest Iterative processing technology, reduces time of routine scans by up to 50 percent
- SynergyDrive optimizes the workflow with Fujifilm's automation and acceleration technology (AutoPose, AutoExam, AutoClip)
- SoftSound Suite to reach 96 percent sound pressure reduction at maximum

1.5 Tesla

## Fujifilm · Echelon Synergy

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m | 130 T/m/s | 32 |

**Highlights**

New Echelon Synergy™ MRI scanner offers workflow and quality benefits through its advanced technologies. Experience fast, effortless operation streamlined workflow and enhanced patient experiences by combining powerful architecture and deep learning reconstruction with single-touch shortcuts and multiple on-gantry controls.

1.5 Tesla

## Siemens Healthineers · Magnetom Altea with BioMatrix

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m[1] | 125 T/m/s[1] | 180×32 |

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*

**Highlights**

- 70 cm Open Bore and large 50×50×50 $cm^3$ FOV
- With Deep Resolve, our new AI-powered advanced image reconstruction technology
- Unique BioMatrix Technology automatically adjusts to patient biovariability
- Turbo Suite acceleration packages enable up to 50 %[2] faster clinical routine examinations – for 2D and 3D scans cross body
- myExam Companion breaks the barriers of complex MRI operations

- Unique patient-centered coil portfolio powered by BioMatrix and Tim 4G technology
- Latest applications available with *syngo* MR XA51A

[2] *Data on file.*

1.5 Tesla

## Siemens Healthineers · Magnetom Amira

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m[1] | 125 T/m/s[1] | 96×16 |

**Highlights**

- Increase patient satisfaction with quiet exams
- 10-min exams with best-practice-based protocols
- Up to 30 %[2] energy savings in standby mode with Eco-Power
- Increased throughput with Tim 4G and myExam Companion
- Maximizing return due to minimized siting requirements and costs
- Latest applications available with *syngo* MR XA50M[3] software such as Compressed Sensing, SMS, Deep Resolve, and many more

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*

[2] *Data on file.*

[3] *Magnetom Amira with syngo MR XA50M is pending 510(k) clearance, and is not yet commercially available in the United States. Its future availability cannot be guaranteed.*

1.5 Tesla

## Siemens Healthineers · Magnetom Amira with BioMatrix

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m[1] | 125 T/m/s[1] | Up to 96×24 |

**Highlights**

- Unique BioMatrix Technology
- Boost productivity with Turbo Suite, Simultaneous Multi-Slice, and Deep Resolve
- Advanced free-breathing MRI exams
- GO technologies powered by artificial intelligence boost patient throughput
- Save energy consumption with Eco-Power
- Increased consistency and workflow acceleration with myExam Companion
- Available with *syngo* MR XA50M[2] software

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*

[2] *Magnetom Amira A BioMatrix system with syngo MR XA50M is pending 510(k) clearance, and is not yet commercially available in the United States. Its future availability cannot be guaranteed.*

1.5 Tesla

## Siemens Healthineers · Magnetom Sempra

| Gradient | Slewrate | Channels |
|---|---|---|
| 30 mT/m[1] | 100 T/m/s[1] | Up to 96×16 |

**Highlights**

- 10-min exams with best-practice-based protocols
- Up to 30 %[2] energy savings in standby mode with Eco-Power
- Increased throughput and consistency with myExam Companion
- More patient comfort with ultra-lightweight Tim 4G coils and Quiet Suite
- Expand clinical offerings with advanced trendsetting applications
- Latest applications available with *syngo* MR XA50M[3] software such as Compressed Sensing, SMS, Deep Resolve, and many more

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*

[2] *Data on file.*

[3] *MAGNETOM Sempra with syngo MR XA50M is pending 510(k) clearance, and is not yet commercially available in the United States. Its future availability cannot be guaranteed.*

### 1.5 Tesla

## Siemens Healthineers · Magnetom Sola Cardiovascular Edition

| Gradient | Slewrate | Channels |
|---|---|---|
| 45 mT / m[1] | 200 T / m / s[1] | 204 × 64 |

**Highlights**

- A dedicated MRI scanner designed to meet the demands of cardiovascular examinations
- Free-breathing CMR exams with Compressed Sensing Cardiac Cine
- Tissue characterization with Myo-Maps and HeartFreeze for differential diagnosis of myocardial injury
- Extend the benefits of CMR to patients prone to susceptibility artefacts with High Bandwidth Inversion Recovery
- Perform CMR exams without ECG using the BioMatrix Beat Sensor
- Consistent results, fast with AI-powered myExam Cardiac Assist for

fast patient setup and step-by-step guidance for CMR exams in as little as 30 minutes[2]

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*
[2] *Data on file, results may vary.*

### 1.5 Tesla

## Siemens Healthineers · Magnetom Sola with BioMatrix

| Gradient | Slewrate | Channels |
|---|---|---|
| Up to 45 mT / m[1] | Up to 200 T / m / s[1] | Up to 204 × 64 |

**Highlights**

- 1.5T magnet with 70 cm Open Bore and large 50 × 50 × 50 cm³ FOV
- High-performance coil portfolio powered by BioMatrix and Tim 4G technology
- With Deep Resolve, our new AI-powered advanced image reconstruction technology
- Turbo Suite acceleration packages enable up to 50 %[2] faster clinical routine examinations – for 2D and 3D scans cross body
- Free-breathing examinations, to master clinical challenges
- myExam Companion breaks the barriers of complex MRI operations

- Save 20 %[2] energy consumption per year – based on COCIR

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*
[2] *Data on file.*

### 1.5 Tesla

## Siemens Healthineers · Magnetom Viato.Mobile*

| Gradient | Slewrate | Channels |
|---|---|---|
| 45 mT / m[1] | 200 T / m / s[1] | 204 × 48 |

**Highlights**

- New 1.5T system with 70 cm Open Bore for installation in a trailer
- With Deep Resolve, our new AI-powered advanced image reconstruction technology
- Free-breathing examinations
- myExam Companion will offer assisted scan workflows
- Unique patient-centered coil portfolio
- With Remote Imaging[2] solutions
- Energy-saving technologies

** The product is still under development and not commercially available. Its future availability cannot be ensured.*
[1] *Maximum gradient amplitude and slewrate can be applied simultaneously.*
[2] *Remote Imaging portfolio consists of the remote-scanning-offerings syngo Virtual Cockpit & WeScan, Expert-I enabled Siemens Healthineers MRI scanner, remote technologist and the remote-reading offering WeRead.*

### High-V MRI (0.55 Tesla)

## Siemens Healthineers · Magnetom Free.Max

**Highlights**

- First 80 cm patient bore: Accessibility for claustrophobic and obese patients
- The most compact whole-body MRI-platform for greater siting flexibility
- Outstanding clinical performance due to Deep Resolve, our AI-powered image reconstruction technology
- DryCool technology: 0.7 liters of liquid helium / No quench pipe
- Blanket-like Contour Coils for comfort and flexibility
- Intuitive operation for any level of experience with myExam Autopilot
- Available as turnkey Relocatable Suite[1]

[1] *T The information shown herein refers to products of 3rd party manufacturer's and thus are in their regulatory responsibility. Please contact the 3rd party manufacturer for further information. The Relocatable Suite for MAGNETOM Free.Max is not commercially available in all countries. Its future availability cannot be guaranteed.*

### High-V MRI (0.55 Tesla)

## Siemens Healthineers · Magnetom Free.Star

**Highlights**

- Disruptively simple approach to MRI based on the revolutionary High-V MRI platform
- Enhanced accessibility to MRI through redefined lifecycle costs
- The most compact whole-body MRI-platform for greater siting flexibility
- Outstanding clinical performance due to Deep Resolve, our AI-powered image reconstruction technology
- DryCool Technology: 0.7 liters of liquid helium | No quench pipe
- Intuitive operation for any level of experience with myExam Autopilot
- Available as turnkey Relocatable Suite[1]

[1] *The information shown herein refers to products of 3rd party manufacturer's and thus are in their regulatory responsibility. Please contact the 3rd party manufacturer for further information. Relocatable Suite for MAGNETOM Free.Star is not commercially available in all countries. Its future availability cannot be guaranteed.*

### Oncology

## Siemens Healthineers · RT Pro Edition for Magnetom Sola and Vida

**Highlights**

- Support precision in Radiotherapy with Magnetom Sola, or Vida and trendsetting applications
- Scan patients consistently in the treatment position with dedicated RT positioning equipment (CIVCO, Orfit, Qfix), an MR compatible laser bridge (LAP), and a large variety of flexible coils
- Rely on intuitive and dedicated RT workflows with the myExam RT Assist[1] and the syngo.via RT Image Suite
- Enable an MR-only RT planning workflow with the myExam RT Assist[1] and syngo.via RT Image Suite's MR-based Synthetic CT[2] feature

- Caption organ motion in abdomen and thorax under free-breathing with automatic respiratory phase sorting with 4D MRI-RT Respiratory Self-Gating

[1] *The name „myExam RT Assist" is used starting from software version syngo MR XA50. In former software versions it is called "RT Dot Engine".*
[2] *MR-based Synthetic CT (AI algorithm) is an optional feature available in syngo.via RT Image Suite starting from software version VB60.*

**Open**

## Fujifilm · Airis Vento Plus

| Gradient | Slewrate | Channels |
|---|---|---|
| 22 mT/m | 55 T/m/s | 2 |

**Highlights**

- Comfort class permanent open MRI system, which keeps enhanced capabilities meeting sophisticated open design
- Offers newly developed technologies available at an excellent cost of ownership
- New generation open MRI with SynergyDrive contains IP-RAPID iterative reconstruction technology, AutoExam with automatic slice positioning and all around RADAR motion artifact reduction
- Environment friendly: extremely low power consumption and reduced installation requirements
- Low running costs allowing fast return of investment
- Field strength: 0.3 T

**Open**

## Fujifilm · Aperto Lucent Plus

| Gradient | Slewrate | Channels |
|---|---|---|
| 25 mT/m | 55 T/m/s | 2 |

**Highlights**

- Wide, 320° open permanent MRI system
- Features top field strength amongst the permanent MRI systems presently on the market
- New generation open MRI with SynergyDrive contains IP-RAPID iterative reconstruction technology, AutoExam with automatic slice positioning and all around RADAR motion artifact reduction
- Fast processing chain allows increasing patient throughput
- Reduced running costs allowing fast return of investment
- Field strength: 0.4 T

**Open**

## Fujifilm · Oasis Velocity

| Gradient | Slewrate | Channels |
|---|---|---|
| 33 mT/m | 100 T/m/s | 16 |

**Highlights**

- World's most powerful open MRI
- Vertical field superconductive magnet for high SNR
- 270° panoramic view, accommodates claustrophobic, paediatric, obese patients
- Fully motorized extra wide 82 cm patient table (up to 300 kg)
- Two-pillar asymmetric design
- Soft Sound Technology
- New generation open MRI with SynergyDrive contains IP-RAPID iterative reconstruction technology, AutoExam with automatic slice positioning and all around RADAR motion artifact reduction
- Field strength: 1.2 T

**MRI Coils**

## Dunlee · Invivo Sentinelle Breast Coils

**Highlights**

More than 30 years experience in MRI RF coils

- Variable coil geometry to fit individual patients
- Ergonomic design that allows easy workflow
- High signal-to-noise ratios to support advanced imaging applications
- Wide range of MR biopsy disposables (grids, needle blocks/sleeves, markers, holders, phantom, etc.)

**MRI Coils**

## Noras · BI 6 Comfort Coil

| Field strength | Channels | System platform |
|---|---|---|
| 1.5/3T | 6 | Siemens |

**Highlights**

- Increased comfort due to more padded patient support and dedicated height-adjustable forehead support
- Adaptation to breast volume due to height-adjustable positioning of the patient
- Cranio-caudal fixation of the breasts for optimized diagnostic imaging
- High-resolution image quality with high homogeneity
- Very good illumination of the axilla
- Integrated LED light system provides an optimally illuminated working environment to support your biopsy workflow
- Flexible and wide access for breast biopsy
- Compatible with the established biopsy units from Noras

**MRI Coils**

## Noras · Encompass 15-Channel Head Coil

| Field strength | Channels | System platform |
|---|---|---|
| 3 T | 15 | Siemens |

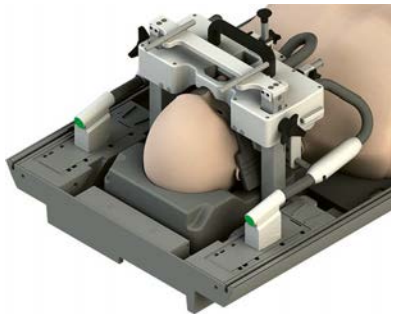
**Highlights**

- Dedicated head coil for high-resolution, used in combination with a radiotherapy mask
- MRI control before and after stereotactic radiotherapy
- High-resolution MR diagnostics of head and neck
- Transversal, sagittal, coronal and tilted images possible
- Removable double mirror for claustrophobic patients

MRI Coils

## Noras · Mandibula 15-Channel Dental Coil

| Field strength | Channels | System platform |
|---|---|---|
| 1,5 T / 3 T | 15 | Siemens |



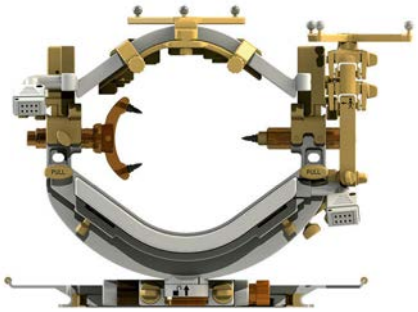
**Highlights**

- High-resolution dedicated MR imaging in dental area
- Easy to position and adjustable for each patient
- Excellent patient comfortability
- Reduced scan times with higher image quality
- Optional mirror attachable for claustrophobic patients

MRI Coils

## Noras · OR Head Holder Lucy & OR Head Coil

| Field strength | Channels | System platform |
|---|---|---|
| 1.5 / 3 T | 8 | Siemens/Philips |



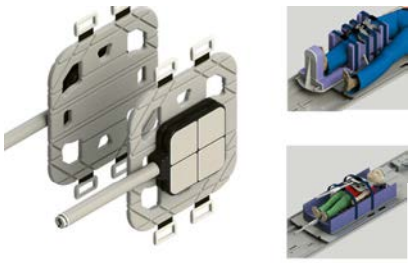
**Highlights**

- MR and X-ray compatible for multi-modal applications
- Excellent image quality and homogeneity
- Three-point fixation with integrated force indicator
- Removable and height-adjustable lower coil
- Excellent access to the field of intervention

MRI Coils

## Noras · Variety 16-Channel Multipurpose Coil

| Field strength | Channels | System platform |
|---|---|---|
| 1.5 / 3 T | 16 (2×8) | Siemens |



**Highlights**

- Application for diagnosis in orthopedics, pediatrics and veterinary medicine
- High signal quality based on a design with 8+8 array elements with high coil element density
- High-resolution examinations of even small body regions with reduced scan times
- Slim design and optional dedicated positioning aids enable coil placement close to anatomy of interest

Accessories / Complementary Systems

## allMRI · 32 Inch Height-Adjustable MRI LED Screen

**Highlights**
- Compatible with all MRI scanners up to 3 Tesla
- 32-inch Full HD screen
- Resolution 1920 x 1080 pixels
- Specially produced for interventional radiology
- Could also used just for entertainment
- Suitable with fMRI applications
- Optional available as full fMRI system

Accessories / Complementary Systems

## allMRI · Foldable MRI Rollator

**Highlights**
- MRI safe foldable rollator
- Entirely made of nonmagnetic materials carbon composite, aluminium and titanium
- Including ceramic ball bearing
- Ultralight just 4 kg self-weight

Accessories / Complementary Systems

## allMRI · MRI ACR Phantom


**Highlights**
- MRI quality assurance phantom
- With various fixtures inside, including a plate, cylinder and other points of interest
- Cylinder diameter 203 mm and height 173 mm
- With reference points for nose and chin

Accessories / Complementary Systems

## allMRI · MRI Stethoscope

**Highlights**
- 100 % antimagnetic for use up to 3 Tesla
- Three additional bells (adult, child and infant), so it can also be used as a child or infant stethoscope
- Excellent acoustic quality and versatility for daily use
- 56 cm long double tube (latex-free)

Accessories / Complementary Systems

## Febromed · Get Up

**The swivelling handle system for radiology offers the following highlights:**

For the patients
- Independent moving
- Safe support in any position
- Safe motion for seniors and disabled people

For the staff
- Ergonomic working
- Reduced physical workload
- Fast changing of the sling

For the facility
- Various combination with existing systems
- Small space requirement
- Mounting on wall, floor or ceiling on customer request

Accessories / Complementary Systems

## SCHILLER · MAGLIFE RT-1

The MAGLIFE RT-1 performs patient monitoring in an MRI environment including all necessary vital parameters during anaesthesia, in adults, children and neonates:
- Compatible with any MRI systems (field strength: 0.2 – 3 Tesla)
- Can be used as close as 50 cm from the MRI
- Monitors 10 vital parameters: ECG, $SpO_2$, NIBP; IBP; $etCO_2$, anaesthetic agents, $O_2$, $N_2O$; spirometry; temperature (optical measurement)
- Wireless ECG and $SpO_2$ sensors, even for premature babies
- 15.6" colour TFT touch screen

# Injectors


Injectors
Dose Management Systems
Accessories
Complementary Systems
Guerbet
MED TRON AG
Transatlantic
Produkte für eine heile Welt

Injectors

## Guerbet · Illumena Néo

| Application | Pressure | FlowRate |
|---|---|---|
| CT / Angio / Cardio | 5.2 – 82.7 bar[1] / 5.2 – 21 bar[2] | 0.1 – 40 ml/s[1] / 0.1 – 10 ml/s[2] |

**Highlights**

Multi-mode contrast delivery system

- High visibility screen
- One finger operation fill bar
- Single or multi-injection procedures
- Switch between operating modes
- Hand switch and foot switches available
- Air Detection Aid & Warning System (ADAWS) identifies empty syringes and air bolus
- Configurations: Pedestal, ceiling or table mount
- Heater: 37° ± 3°
- Connectivity with Contrast&Care (optional)

*Components and consumables certified by the manufacturer*

*[1] Angio mode / [2] CT mode*

Injectors

## Guerbet · OptiOne

| Application | Pressure | FlowRate |
|---|---|---|
| CT | 22.4 bar | 0.1–10 ml/s |

**Highlights**

Single head CT contrast delivery system

- Compatible with prefilled syringes & vials
- Scan delay, phase delay, auto-fill, auto purge
- Timing bolus, inject delay
- Fully programmable touchscreen powerhead
- Scanner relay interface as standard
- OptiBolus bolus shaping software extends the window of imaging opportunity
- Configurations: Pedestal and ceiling mount
- Loading, filling & priming: automatic / manual
- Heater : 37° ± 3°
- Connectivity with Contrast&Care (optional)

*Components and consumables certified by the manufacturer*

Injectors

## Guerbet · OptiStar Elite

| Application | Pressure | FlowRate |
|---|---|---|
| MR | 10.3 / 13.8 bar* | 0.1 – 10 ml/s / 0.1 – 8 ml/s* |


**Highlights**

MR contrast delivery system

- Volume precision down to 0.1 mL thanks to fractional delivery
- Optic fiber technology
- Compatible with pre-filled syringes & vials
- Battery free & 3T certified
- One click loading
- Auto-retract rams
- Powerhead keys
- Console enable
- Patency check
- Timing bolus
- Drip mode
- Colour touchscreen
- Automatic pressure control
- Connectivity with Contrast&Care (optional)

*Components and consumables certified by the manufacturer*

** dependent on type of syringe*

Injectors

## Guerbet · OptiVantage Multi-Use

| Application | Pressure | FlowRate |
|---|---|---|
| CT | 22.4 bar | 0.1–10 ml / s |

**Highlights**

Dual head CT contrast delivery system

When efficiency and care combine seamlessly

- OptiBolus feature to help reduce the contrast load (optional)
- Dedicated multi-patient software
- All in one preconnected 24 h dayset, with closed system, air & particles filters
- Secufill patient line with double safety valve
- Only a few seconds preparation between patients
- Certified syringes & manyFill dayset
- Countdown timer to alert you of compliancy with hygiene regulations
- Safe with patency check, tilt enable, timing bolus and simultaneous Injection features
- Automatic operations (filling, priming)
- Scanner interface to CAN Open Class 4*
- Connectivity with Contrast&Care (optional)

*Components and consumables certified by the manufacturer*

** dependent on scanner manufacturer*

Injectors

## Guerbet · OptiVantage Single Use

| Application | Pressure | FlowRate |
|---|---|---|
| CT | 22.4 bar | 0.1–10 ml / s |

**Highlights**

Dual head CT contrast delivery system

- OptiBolus feature to help reduce the contrast load (optional)
- Scan delay, phase delay, auto-fill, auto purge
- Timing bolus, inject delay, patency check
- Fully programmable touchscreen powerhead
- Scanner interface to CAN Open Class 4*
- Configurations: Pedestal and ceiling mount options
- Loading, filling & priming: Automatic / manual
- Simultaneous injection: 10 % – 90 % (5 % steps)
- Heater: 37° ± 3°
- Connectivity with Contrast&Care (optional)

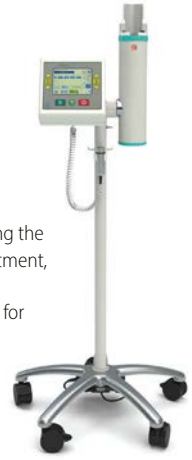
*Components and consumables certified by the manufacturer*

** dependent on scanner manufacturer*

Injectors

## Medtron · Accutron CT

| Application | Pressure | FlowRate |
|---|---|---|
| CT | 21 bar | 0.1 – 10 ml / s |



**Highlights**

- Whether you are budget conscious or newly exploring the potential use of a powered injector in your CT department, Accutron CT is your starting point
- Provides real-time pressure monitoring which allows for improved precision and safety
- Agile mobility with a configuration that provides flexibility to quickly change examination rooms
- Consistent reliability helps to reduce repeat examinations due to contrast mistiming

Injectors

## Medtron · Accutron CT-D Vision

| Application | Pressure | FlowRate |
|---|---|---|
| CT | 21 bar | 0.1 – 10 ml / s |

**Highlights**

- New design for more comfort with improved read-ability and less eye fatigue, new battery management system and new casters
- Enriched user experience with a simpler workflow and better patient care
- Integrated with RIS and PACS (as an option) as well as with the scanner interface to reduce workload for the operator and improve patient turnaround times
- Limits patient risk by reducing the amount of contrast a patient receives during injection
- Supports the development of contrast-enhanced mammography, a new clinical service in mammo-graphy; leading to potentially increased revenue

Injectors

## Medtron · Accutron HP

| Application | Pressure | FlowRate |
|---|---|---|
| Angio | 83 bar[1] / 21 bar[2] | 0.1 – 30 ml / s[1] / 0.1 – 10 ml / s[2] |

**Highlights**

- Enables interdisciplinary clinical imaging examinations in both angiography and computed tomography
- Wireless and mobile configuration provides flexibility to quickly change examination rooms and eliminates barriers; such as nearby power requirements and/or cable installation
  - Reduces risk of infections by being easy to clean and hygienic
  - Integration with the scanner interface reduces workload for the operator and improves patient turnaround times

*[1] Angio mode / [2] CT mode*

Injectors

## Medtron · Accutron HP-D

| Application | Pressure | FlowRate |
|---|---|---|
| Angio | 83 bar[1] / 21 bar[2] | 0.1 – 30 ml / s[1] / 0.1 – 10 ml / s[2] |

**Highlights**

- Reduces beam hardening artifacts through flexible adjustment of contrast concentration using saline.
- Cleanly defined & reproducible contrast media boli' can be achieved by pushing contrast media with a saline bolus
- Wireless and mobile configuration with flexibility to quickly change exam rooms and eliminates power requirements
- May reduce the amount of contrast required per patient resulting in less operating expenses

*[1] Angio mode / [2] CT mode*

Injectors

## Medtron · Accutron MR

| Application | Pressure | FlowRate |
|---|---|---|
| MR | 21 bar | 0.1 – 10 ml |

**Highlights**

- Keep Vein Open (KVO) software feature helps to maintain vascular access during longer imaging procedures
- Compatibility with selected pre-filled syringes makes it easier to change and select the most suitable contrast medium for each patient
- Can be used with two touch screen remote controls so that one injector is shared between two MR exami-nation rooms

Injectors

## Medtron · Accutron MR3

| Application | Pressure | FlowRate |
|---|---|---|
| MR | 21 bar | 0.1 – 10 ml / s[1] / 000.1 – 30 ml / s[2] |

**Highlights**

- The integrated infusion pump enables simultaneous administration of fluids during an MRI examination
- Works with select pre-filled syringes to increase throughput via quick use and improved patient turnaround times
- Integrated infusion pump enables simultaneous administration of additional medication needed by some patients to undergo MRI examination

*[1] CM/NaCl / [2] Infusion pump*

Dose Management Systems

## Guerbet · Contrast&Care

**Highlights**

Contrast&Care is a solution dedicated to contrast dose management. It connects to all Guerbet injectors and Hospital Information Systems (RIS, PACS, EMR…) and collects all relevant data about contrast media usage, patient history, and injector activity. Contrast&Care facilitates the traceability of contrast media and provides several tools that help imaging centers optimize contrast media consumption.

### Dose Management Systems

## Guerbet · Dose&Care

**Highlights**

Dose&Care is a state-of-the-art radiation dose monitoring solution, which allows documenting patient exams, understanding the reasons for excessive exposure and monitoring activities related to patient exposure. It provides the means to remain compliant with an ever-evolving regulation while improving the workflow and ensuring patient safety.

### Accessories / Complementary Systems

## Guerbet · secufill

**Highlights**

- Need a proven & qualitative barrier against microbes?
- Double level safety valve, for CT & MRI, 24 bars, specially designed to limit risk of contamination
- Ask for evidence! When multi-patient safety lies on a patient line, do rely on a proven technology: +25 years of experience, and supporting study: https://pubmed.ncbi.nlm.nih.gov/26538217
- Get ready in seconds: just change secufill between patients
- Luer-lock connectivity: optimized compatibility with most injectors and day-sets (8 h, 12 h & 24 h)

### Accessories / Complementary Systems

## Transatlantic · Transaflow Multi-APS safety and PWL/PWLS 12 h

**Highlights**

Quality 'Made in Germany': The safety filling systems Transaflow Multi-APS Safety in combination with the patient lines with integrated germ barrier Transaflow PWL or PWLS are suitable for all common CT and MRI syringe injectors. They offer all the advantages of a closed system: they are leak-proof, do not drip and do not stick. Several check valves and a self-sealing, disinfectable safety valve provide the best possible hygienic safety for patients and users. Multi-APS-Safety-systems and PWL/PWLS are produced in Germany and are available in many variants (Mini spike, insertion spike with drip chamber, for scanbag, filled flasks etc.). They are approved for up to twelve hours of use.

**Accessories / Complementary Systems**

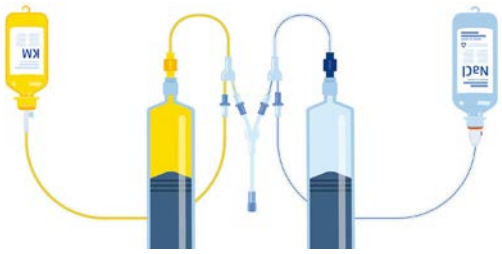
## Transatlantic · Transaflow Multi-APS safety and PWL/PWLS 24 h

**Highlights**

24 h application duration with quality 'Made in Germany': The Transaflow Multi-APS Safety filling systems are suitable for all common CT and MRI syringe injectors in conjunction with the Transaflow PWL or PWLS patient lines with integrated germ barrier. They offer all the advantages of a closed system: they are leak-proof, do not drip and do not stick. Several high-quality check valves and a self-sealing, disinfectable safety valve provide the best possible hygienic safety for patients and users. Multi-APS Safety Systems and PWL/PWLS are produced in Germany and are available in many variants (mini spike, puncture spike with drip chamber, for scanbag, prefilled flasks, etc.). They are approved for up to 24 hours of use.

**Accessories / Complementary Systems**

## Transatlantic · Transaflow Multi-Patient-Syringe-System 12/24 h



**Highlights**

Make your syringe injector safe for 12 h or 24 h multi-patient use, regardless of injector manufacturer. Transatlantic has been manufacturing and distributing multi-patient transfer systems for contrast media applications for over 10 years. The products are suitable for CT and MRI and a transfer system can be used on all common piston injectors. This makes ordering processes simpler and stock-keeping clearer and less expensive. The user works with one product and the routine is standardized. No more sticky bottoms or stuck systems! Our drip stop in our Multi-APS transfer systems also offers this special advantage. Trans-atlantic - your reliable partner for transfer systems. Quality Made in Germany.

# Interventional Systems

### Multi-Modality Suites

## Siemens Healthineers · Nexaris Angio-CT

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 160 µm |

**Highlights**

- First hybrid suite with a common coordinate system that fuses images instantly
- Direct access to angio and CT with Quick Switching
- Efficient multi-room configurations to share imaging equipment
- Enabling combined CT and angio guidance in one session

### Multi-Modality Suites

## Siemens Healthineers · Nexaris Angio-MR-CT

| Power | Detector | Pixel size |
|---|---|---|
| – | – | – |

**Highlights**

- Seamless access to multi-modality imaging
- Patient transfer without repositioning for barrier-free intraoperative imaging with Nexaris Dockable Table
- More possibilities during treatment with synergized Angio, MR, and CT image information

### Bi-Plane

## Siemens Healthineers · ARTIS icono biplane

| Power | Detector | Pixel size |
|---|---|---|
| 2 x 100 kW | a-Si / CsI | 154 µm |

**Highlights**

ARTIS icono biplane offers great technologies for interventional neuroradiology and cardiovascular care.

- New cone-beam CT trajectory *syngo* DynaCT Sine Spin reduces artifacts for excellent soft-tissue resolution
- *syngo* DynaCT Multiphase integrates collateral vessel imaging in the angio suite
- Twin Spin enables seamless switching between 2D and 3D thanks to mechanical improvements
- New image chain OPTIQ enables constant image quality using a contrast-driven technique (CNR*) based on automatic parametrization and intelligent, self-adjusting algorithms

**Contrast-to-noise ratio*

### Bi-Plane

## Siemens Healthineers · Artis Q.zen biplane

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | c-Si / CsI | 160 µm |

**Highlights**

Biplane system for interventional imaging. The Artis Q.zen biplane system offers high performance in interventional imaging combined with high positioning flexibility.

- Detector: 261 × 287 mm (1,024 × 1,024 px), 160 µm
- Left-side biplane imaging position for free head access
- Single plane operation with extended position flexibility enabled by rotated table
- Ergonomic system controls for smooth table-side operation
- 3D acquisition rate up to 75 f/s

### Bi-Plane

## Siemens Healthineers · Artis zee biplane, Artis Q biplane

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 154 µm / 184 µm |

**Highlights**

Biplane system for interventional imaging. The Artis biplane system offers high performance in interventional imaging combined with high positioning flexibility.

- Detector:
  20 × 20 (1,024 × 1,024 px), 184 µm
  30 × 40 (1,920 × 2,480 px), 154 µm
- Left-side biplane imaging position for free head access
- Single plane operation with -extended position flexibility enabled by rotated table
- Ergonomic system controls for smooth table-side operation
- 3D acquisition rate up to 75 f/s

### Single Plane

## Siemens Healthineers · ARTIS icono ceiling

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 154 µm |

**Highlights**

ARTIS icono sets the pace in image guidance for complex interventions. Mechanical flexibility and positioning accuracy combine with 2k imaging and smart workflow guidance to redefine precision for interventional radiology and cardiovascular care. Smart guidance tools support anatomical navigation and semi-automatic identification of feeder vessels, while seamless interfaces make your angio suite an inter-departmental digital lab.

Single Plane

## Siemens Healthineers · ARTIS icono floor

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si/CsI | 154 µm |

**Highlights**

ARTIS icono floor offers great technologies for interventional radiology and cardiovascular care.

- Excellent longitudinal coverage of 2.10 m for imaging most patient from head to toe
- Lateral coverage of 1.90 m supporting new workflows and
- Motorized system movement without the need to move the table
- OPTIQ technique based on automatic parametrization and intelligent, self-adjusting algorithms.
- Case Flows to personalize and standardize workflows

Single Plane

## Siemens Healthineers · ARTIS one Edition X

| Power | Detector | Pixel size |
|---|---|---|
| 100 kw | a-Si / CsI | 184 µm |

**Highlights**

ARTIS one Edition X offers the right combination of flexibility and features for optimally treating cardiovascular patients.

- Mid-sized 30" flat detector (1560 × 1420 px image display matrix) and slimline collimator housing
- StraightView enables synchronized rotation of detector and collimator
- Display-driven interfaces for intuitive interaction
- Integrated 3D imaging with two high contrast acquisition modes
- Efficient room usage fits in rooms as small as 25 $m^2$

Single Plane

## Siemens Healthineers · ARTIS pheno

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 160 µm |

**Highlights**

ARTIS pheno – the only robotic C-arm system on the market - delivers images for preprocedural planning, intraoperative guidance, and immediate assessment

- Detector: zen40HDR, hi-res cristalline silicon / CsI, 30 × 40 (2,496 × 1,856 px), 160 µm
- Simplify and standardize surgical procedures – with Procedural Intelligence
- Visualization of up to ten vertebrae simultaneously – with large-volume 3D scanning
- Easy cleaning and disinfection – thanks to a seamless exterior with smooth surface and antimicrobial paint with significant effects on non-sporulating microorganisms
- Wide-space C-arm – with a clearance of 95.5 cm

Single Plane

## Siemens Healthineers · Artis Q.zen ceiling

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | c-Si / CsI | 160 µm |

**Highlights**

The Artis Q.zen ceiling-mounted system enables clinicians to care with greater ease, precision and flexibility.

- Detector: 261 × 287 mm (1,024 × 1,024 px), 160 µm
- Positioning flexibility
- Ergonomic system controls for smooth table-side operation
- 3D acquisition rate up to 75 f/s
- Complete 3D-portfolio including cross-sectional imaging with *syngo* DynaCT and *syngo* 3D Roadmap

Single Plane

## Siemens Healthineers · Artis Q.zen floor

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | c-Si / CsI | 160 µm |

**Highlights**

The Artis Q.zen floor-mounted system enables clinicians to care with greater ease, precision and flexibility for small rooms.

- Detector: 261 × 287 mm (1,024 × 1,024 px), 160 µm
- Small footprint of 29 $qm^2$
- Slim-line design for easy patient access
- Ergonomic system controls for smooth-table-side operation
- 3D acquisition rate up to 75 f/s
- Complete 3D-portfolio including cross-sectional imaging with *syngo* DynaCT and *syngo* 3D Roadmap

Single Plane

## Siemens Healthineers · Artis zee ceiling, Artis Q ceiling

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 154 µm / 184 µm |

**Highlights**

The Artis ceiling-mounted system enables clinicians to care with greater ease, precision and flexibility.

- Detector:
  20 × 20 (1,024 × 1,024 px), 184 µm
  30 × 40 (1,920 × 2,480 px), 154 µm
- Positioning flexibility that supports any angle
- Ergonomic system controls for smooth table-side operation
- 3D acquisition rate up to 75 f / s
- Complete 3D-portfolio including cross-sectional imaging with *syngo* DynaCT and *syngo* 3D Roadmap

### Single Plane

## Siemens Healthineers · Artis zee floor, Artis Q floor

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 154 µm / 184 µm |

**Highlights**

The Artis floor-mounted system enables clinicians to care with greater ease, precision and flexibility for small rooms.

- Detector:
  20 × 20 (1,024 × 1,024 px), 184 µm
  30 × 40 (1,920 × 2,480 px), 154 µm
- Small footprint of 29 qm²
- Slim-line design for easy patient access
- Ergonomic system controls for smooth -table-side operation
- 3D acquisition rate up to 75 f / s
- Complete 3D-portfolio including cross-sectional -imaging with *syngo* DynaCT and *syngo* 3D Roadmap

### Single Plane

## Siemens Healthineers · Artis zee multipurpose

| Power | Detector | Pixel size |
|---|---|---|
| 100 kW | a-Si / CsI | 154 µm |

**Highlights**

Artis zee multipurpose is designed to meet the demands of interventional radiology and fluoroscopy. The system left suspension meets the needs of endoscopic applications in gastroenterology.

- Detector: 30 × 40 (1,920 × 2,480 pixels), 154 µm
- Ergonomic system controls for smooth table-side operation
- 2 k imaging with highly practical and user-friendly handling features
- 3D acquisition rate up to 75 f / s

### Single Plane

## Technix · Quantic

| Power | Detector type | Pixel size |
|---|---|---|
| 80 kW | a-Si / CsI | 139 µm |

**Highlights**

- Detector size: 43 × 43 cm
- Advanced DR fluoroscopic equipment design to satisfy a wide range of applications
- The fully motorized C-arm assures possibility to work with FPD above and below the combined table
- Synchronized movements between C-arm and patient table
- The strength of the system is achieved thanks to the integration of fluoroscopy and radiography in one system with a user-friendly interface


### Surgical Flat Panel C-Arms

## Fujifilm · FDR CROSS

| Power | Detector | Pixel size |
|---|---|---|
| 2 kW | CsI | 150 µm |

**Highlights**

- Unique, hybrid mobile C-arm
- Fluoroscopic and radiographic image capture in a single platform
- Quick-charge lithium battery for up to eight hours of wireless use.
- Wireless footswitch and monitor cart, eliminating cable management risks
- Switchable 3 panel sizes to perform a wide range of surgical examinations
- Antibacterial coating
- 10 % lighter at 249 kg
- Compact cart design and Omni wheels for smooth all-round movement and positioning
- Wide 83 cm C-arm opening for improved access

### Surgical Flat Panel C-Arms

## Fujifilm · FDX Visionary-C and CS

| Power | Detector | Pixel size |
|---|---|---|
| 5 – 20 kW | CsI | 154 – 205 µm |

**Highlights**

- Advanced C-arm Fluoroscopy solutions engineered for fast, precise positioning and advanced image quality
- FDX Visionary-CS's compact all-in one design and built in large 27" landscape monitor allows improved access in smaller rooms.
- FDX Visionary-C's perfectly balanced lightweight C-arm and dual 21.5" touchscreen monitor cart provides fast accurate positioning and ultra-sharp image viewing.

- 21 × 21 cm and 30 × 30 cm amorphous Silicon (aSi) flat panel detectors provide ultra-low dose fluoroscopy.
- Featuring a removable grid and dedicated 'radiography mode' for high quality still imaging

### Surgical Flat Panel C-Arms

## GMM Group · Symbol FP – Mobile C-Arm System

| Power | Detector | Pixel size |
|---|---|---|
| 10 / 20 / 25 kW | a-Si | 145 – 179 µm |

**Highlights**

- Innovatory portable C-Arm with high power generator, high speed rotating X-ray tube and flat panel detectors
- Compact design and reduced weight for a safe and easy patient approach
- Touchscreen display for a complete parameter management
- Advanced digital imaging software and dose reduction
- Wide range of applications, including vascular surgery with DSA&RM tool
- Medical grade monitors on workstation cart
- Detector Size: 23 × 23 cm – 30 × 30 cm

## Surgical Flat Panel C-Arms

### Intermedical · "New" Radius XP with flat panel

| Power | Detector | Pixel size |
|---|---|---|
| 30 kW | a-Si / CsI | – |

**Highlights**

- Large power reserve of 30 kW
- Boost up to 250 mA
- Excellent 1,536 × 1,536 pixels image quality
- Max. 25 frames sec
- Touch Screen Panel PC directly on C-Arm with live image preview
- E-motion: all C-Arm movements can be motorized
- New Dual Cooling System for Housing and Generator
- Dual Power System: power reserve system
- Wireless pedal as option
- Available with FPD 30 × 30 or 21 × 21 cm
- Available in manual version as well

## Surgical Flat Panel C-Arms

### Medtronic · O-arm System

| Power | Detector | Pixel size |
|---|---|---|
| 32 kW | a-Si - 2.0K × 1.5K | 194 µm |


**Highlights**

- Designed for surgery
- 13s true 360° 3D scan – Fully mobile
- Flexible intra-operative 2D- and 3D-imaging
- 3D scan volume up to 40 cm width
- Seamless integration in OR workflow
- Easy in use: All motions motorized, simple control panel
- Position memory remembers four scan positions
- Easy draping of the breakable gantry for uncompromised sterile use
- Seamless integrating with Stealth-Station Navigation
- New 2D long-film option allows AP and lateral imaging up to 45 cm length

## Surgical Flat Panel C-Arms

### Siemens Healthineers · Cios Alpha

| Power | Detector | Pixel size |
|---|---|---|
| 12 / 25 kW | 20 × 20 / 30 × 30 cm | 152 µm |

**Highlights**

- Up to 25 percent more coverage[1] even during image rotation – thanks to smart collimation
- Retina technology enables surgeons to see the details they need to see
- Improve efficiency in your clinical workflow – with remote control unit[2], electromagnetic brakes, and a wireless footswitch[2]

[1] *Compared to conventional 33 cm image intensifiers* [2] *Option*

### Surgical Flat Panel C-Arms

## Siemens Healthineers · Cios Flow

| Power | Detector | Pixel size |
|---|---|---|
| 2.3 kW | 20 × 20 / 30 × 30 cm | 152 µm |

**Highlights**

- Intuitive use, low weight, and easy maneuverability – for easy system operation and more ease in the OR
- Boost system utilization – with a multipurpose system that can be used across a variety of disciplines
- Safeguard data and access – with advanced cyber security

### Surgical Flat Panel C-Arms

## Siemens Healthineers · Cios Select with FD

| Power | Detector | Pixel size |
|---|---|---|
| 2.3 kW | 21 × 21 cm | 205 µm |

**Highlights**

- Accuracy – see more with Retina FD technology and a larger field of view that lets you improve imaging accuracy[1]
- Productivity – streamline your workflow and experience easy system and patient positioning thanks to the generous C-arm geometry, green lasers, a wireless footswitch, and a smart touch user interface
- Reliability – profit from proven excellence and system availability above 99.8 %[2]

[1] *Compared to mobile C-arms with conventional 23 cm / 9 inch image intensifier, data on file*
[2] *Statistical evaluation of installed base*

### Surgical Flat Panel C-Arms

## Siemens Healthineers · Cios Spin

| Power | Detector | Pixel size |
|---|---|---|
| 12/ 25 kW | 30 × 30 cm | 152 µm |

**Highlights**

- More certainty in demanding cases with precise intraoperative quality control based on 3D technology
- More efficiency in intraoperative 3D with Easy 3D package
- More cost-effectiveness in surgery through intraoperative corrections based on 3D images

### Surgical Flat Panel C-Arms

## Stephanix · Omniscop DReam

| Power | Detector | Pixel size |
|---|---|---|
| 5 kW / 20 kW | 21 × 21 cm / 30 × 30 cm | 154 µm |

**Highlights**

- Orthopaedic, head, spine, thorax, abdomen, vascular, cardiac
- Large C-Arm depth and wide orbital rotation
- Adjustable height & angle of medical displays
- Dynamic FPD with high DQE and MTF
- Removable grid
- Advanced functions : APR, post-processings, DSA
- DICOM connectivity
- Detector size: 21 × 21 cm / 30 × 30 cm

### Surgical Flat Panel C-Arms

## Stephanix · Omniscop DReam S

| Power | Detector | Pixel size |
|---|---|---|
| 4.2 / 5 kW | 21 × 21 cm / 30 × 30 cm | 200 / 200 µm |

**Highlights**

- Orthopaedic / Urology / Cerebral / Thoracic / Pain therapy / Peripheral vascular using DSA function
- Single unit system, all components integrated into the C-arm stand
- Very small footprint
- 4 Mpixel 27" medical monitor on an articulated arm, adjustable height and angle
- Dynamic FPD with high DQE and MTF
- Advanced functions : APR, post-processings, DSA
- DICOM connectivity
- Detector size: 21 × 21 cm / 30 × 30 cm

### Surgical Flat Panel C-Arms

## Swissray · Smart C

| Power | Detector type | Pixel size |
|---|---|---|
| Battery powered | CsI CMOS | 99 µm |

**Highlights**

The world's first battery-powered, completely wireless, hyper-portable, Mini C-arm providing unparalleled digital fluoroscopic imaging capabilities.

- Battery-powered, lightweight Mini C-Arm
- Sophisticated Software provides exceptional real-time image quality
- CMOS Detector for low dose imaging
- Wireless tablet enables enhanced visualization
- Position the C-Arm on its front or side to quickly acquire images
- Compact design allows the use directly on the surgical table
- Modular system offers addition of supporting stand
- Robust and safe transportation case for out-clinic exams

### Surgical Flat Panel C-Arms

## Technix · TCA7

| Power | Detector | Pixel size |
|---|---|---|
| 5 / 20 kW | 21 × 21 cm / 30 × 30 cm | 205 / 194 µm |

**Highlights**

- Rotating anode, water cooled for long procedures
- Large C-Arm and wide orbital rotation for easy patient positioning
- Intuitive touchscreen user interface with image preview
- Removable grid and motorized filters for pediatric applications
- Up to 250.000 image storage capacity
- CD / DVD and USB for image exporting
- Full DICOM connectivity

### Surgical II-C-Arms

## GMM Group · Symbol – Mobile C-Arm System

| Power | II format | CCD-matrix |
|---|---|---|
| 4 / 5 / 10 kW | 9" / 12" | 1 k × 1 k |

**Highlights**

- Mobile C-Arm system with high frequency monobloc generator and 9"/ 12" high contrast image intensifier
- Light-weight C-Arm for wide and precise movements
- Intuitive interface for easy parameter control
- Advanced digital image processing software
- Optimal image quality with low dose levels
- Various applications, including vascular surgery with DSA & RM tool
- Medical grade monitors on workstation cart

### Surgical II-C-Arms

## Intermedical · "New" Radius

| Power | II format | CCD-matrix |
|---|---|---|
| 3,5 / 5 kW | 9" | 1k x 1k |

**Highlights**

- High resolution camera for fixed or rotating anode
- Touchscreen user interface
- High configuration cart with two 19" medical monitors
- Remote control
- Up to 110.000 image storage capacity (expandable on request)
- Laser for patient centering
- CD / DVD and USB for image exporting
- Full DICOM connectivity
- 15 kW version available
- New Version with F.P. and 5 or 20 kW available

### Surgical II-C-Arms

## Intermedical · Radius Single

| Power | II format | CCD-matrix |
|---|---|---|
| 3,5 / 5 kW | 9" | 1k x 1k |

**Highlights**

Small and practical C-arm with one orientable 24" LCD touch-screen monitor, assembled directly on the unit (no trolley)

- Membrane keyboard with alpha-numeric touchscreen LCD display for all the parameters and error messages; it can be rotated ± 60°
- Software with 55.000 images (expandable on request)
- Measure software included in the standard configuration
- DICOM packages available on request

### Surgical II-C-Arms

## Siemens Healthineers · Cios Select

| Power | II format | CCD-matrix |
|---|---|---|
| 2.5 kW | 23 cm | 1 k² |

**Highlights**

- 99.8 percent system availability[1] – reliability in a smart, lean design
- Smart system operation – with an intuitive user interface
- High image quality – combined with IDEAL (Intelligent Dose Efficiency Algorithm) dose management

[1] *Average system availability over the entire Siemens Healthineers C-arm installed base*

### Surgical II-C-Arms

## Villa Sistemi Medicali · Arcovis 3000 S / R

| Power | II format | CCD-matrix |
|---|---|---|
| 3.5 – 15 kW | 9" | 0.5 × 0.5 k / 1 × 1 k |

**Highlights**

- Application in urology, cardiology, orthopedics and general surgery
- Choice between fixed anode (3000 S) or rotating anode (3000 R) versions
- Choice of 0.5 × 0.5 k or 1 × 1 k camera and several image storage options to satisfy all applications
- Premium version with 15 kW power, 1 × 1k camera

Accessories / Complementary Systems

## Canon Electron Tubes & Devices · Angio Tube Assembly

| Power | Capacity |
|---|---|
| 100 kW | 3 MHU(Anode Heat Capacity) |

**Highlights**
- For angiography systems (3 MHU)
- Uses a liquid metal bearing
- Our unique liquid metal bearing technology
- Compact Housing – provides a long tube life, quiet operation, high stability, and excellent reliability.

Accessories / Complementary Systems

## Canon Electron Tubes & Devices · LM-Angio Tube

| Power | Capacity |
|---|---|
| 100 kW | 2.1 MHU(Anode Heat Capacity) |

**Highlights**
- For angiography systems (2.1 MHU)
- Uses a liquid metal bearing
- Our unique liquid metal bearing technology
- Compact Housing – provides a long tube life, quiet operation, high stability, and excellent reliability.

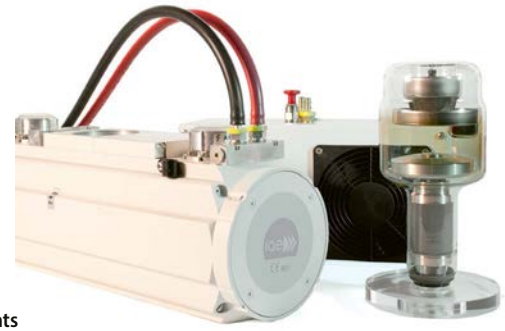
Accessories / Complementary Systems

## Canon Electron Tubes & Devices · X-ray Image Intensifier

**Highlights**
- Suitable for mobile C-Arms
- Smart design with smooth surfaces
- Excellent performance and high reliability
- Advanced simulation technologies used in development and production
- Our unique technologies provide a high Gx value, reducing radiation exposure to the patient.
- Environmentally friendly
- Compliant with the RoHS directive
- Free from hazardous substances such as hexavalent chromium and cadmium
- Detector: Xray Image Intensifier
- Size: Field size 9 inch, 9 / 6 / 4.5 inch Output image size Ø 20 mm , Ø 25 mm
- Design: For C-Arm

Accessories / Complementary Systems

## I.A.E. · C30-RTM 70



**Highlights**
- Rotating anode X-Ray tube unit designed for mobile c-arm equipment
- Lead lined single piece aluminium body, internal pump for oil circulation, to improve thermal exchange
- Choice of HT cable socket: Parker or Claymount mini
- Optional remote water-air heat exchanger increases heat dissipation to 500W continuous for demanding interventional applications
- Water cooling can be mounted or upgraded on field

Accessories / Complementary Systems

## IMD Generators · Monobloc X-ray Generator

**Highlights**
- Single Tank x-ray Generator, with painted aluminium case
- Properly developed and designed for C-arm units with medium to intense Rad and Fluo application
- Power range from 4 kW up to 20 kW
- Kv range from 40 up to 120 kV
- Stationary and Rotating Anode Tube
- Customised product according to the customer's technical requirements

Accessories / Complementary Systems

## Siemens Healthineers · CorPath GRX

**Highlights**
- The first robotic platform designed for interventional physicians
- Enables precise measurement of anatomy and device positioning
- Added benefit of radiation protection for the physician and the potential to reduce radiation exposure for staff and patients
- technIQ Smart Procedural Automation provides predictable and consistent movements that aid in advanced navigation, lesion crossing, and device manipulation during complex coronary and peripheral interventional procedures

# Artificial Intelligence

# AI in radiation protection: a potential game changer

**Radiographers could help design new artificial intelligence (AI) tools for radiation protection, Mark McEntee, professor of diagnostic radiography at University College Cork, Ireland, argued during the annual meeting of the European Society of Medical Imaging Informatics (EuSoMII).**

Report: *Mélisande Rouger*

'There are a lot of papers on AI, but not in the area of radiation protection and AI,' he said. 'AI in radiation protection is in its infancy, but it could be a game changer.' The expert identified three pillars of AI in radiation protection: justification of x-ray examinations; optimization of the examinations and dose limitation. McEntee encouraged AI companies to aim for the low hanging fruits in those three areas. For example, justification is virtually untouched, he said: 'You could prevent unjustified examinations by impeding those that are unnecessary. You might be surprised, but it happens a lot. Sometimes mistakes are made or, because results aren't available yet, doctors refer the patients again. The cumulative effect of dose to patient is something physicians should be worried about and it's a target for AI.'

AI could also help clinicians identify the correct examination to carry out. Some clinical decision-making tools already exist, but there is room for more, McEntee believes. Guidelines such as the American appropriateness criteria the ESR iGuide or can help AI developers, but they are static resources that are not based on evidence, he explained. 'Information on justification is often based on the consensus of experts rather than well-designed controlled trials.'

Another challenge is patient consent. 'Many times, patients don't understand that there's radiation involved,' the expert pointed out. In some cases, medical experts face difficulties in explaining the procedures. 'Consent of patients is lacking, so decision support tools and potential radiology products could help here as well,' he said. Verifying the quality of data relies on humans, so it is expensive and challenging. AI companies should think of radiographers as a translation between the request of the doctor and the actual needs. 'Consider, when you design your products, that you have radiographers in the loop, and if you make them part of your workflow, they can do things like labelling examinations and artifacts,' he said.

Once the examination has been justified it must be optimised. That's also an area where radiographers can help, McEntee continued. 'Optimisation is a shared responsibility, but at the patient's side it's done by radiographers.' Vulnerable patients who return on multiple occasions to the hospital need lifelong imaging. This is an opportunity to learn from the previous imaging and look at things in ways we can enhance current imaging sets based on previous imaging sets. We can reduce the dose and learn from patients,' said the expert, who presented the case of a paediatric patient with cranial steatosis to illustrate this point. 'The problem was in the shape of the head': Because the fontanelle didn't open as it should have, the only area relevant for imaging was these bony windows. 'But in this case, the entire brain was scanned – this wasn't essential. They used 80% more dose than what was necessary,' he said. The clinical question should drive the protocol, he insisted. 'How decisions are made regarding the appropriate protocols for justification is a really important step.'

Another way to help reduce dose would be for radiographers to borrow radiology equipment such as AI-automated 3D cameras to better position the patient in radiation therapy. 'We already have good tools on automatic exposure control and we're increasingly using AI. That would be a major way in which we can reduce dose.'

Adjusting dose to a patient is complex, he went on, taking the example of breast screening. 'There is no average breast. The average is based on an estimate by the physician that 50% of the glandular tissue of the breast is normal and 50 isn't,' he explained. 'We want to use AI to measure the density of this breast. It does far better with far less radiation. If you used that classification of breast density to replace the mean average, then you would actually calculate the appropriate dose required for a woman. 'Radiologists and radiographers can feed in an algorithm as they go along the workflow. 'If we build the infrastructure of AI so that it's collecting data of users as we go along, we'd have potential benefits for patients and healthcare systems, including shorter waiting times, fewer unnecessary examinations, quicker diagnosis, and reduced instances about missed diseases because radiologists aren't overwhelmed looking at thousands of images,' he concluded.

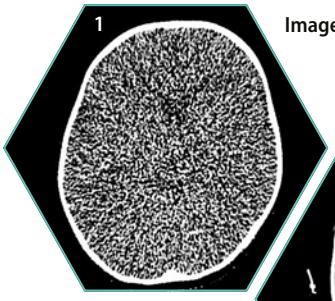



**Image 1: CT scan of the brain at normal dose**


**Image 2: CT scan of the brain at 80% less dose**

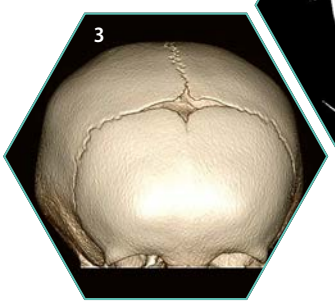



**Image 3: Reconstruction of the skull from the 80% reduced of CT scan**

Artificial Intelligence

## Dedalus · contextflow Advance Chest CT *

**Highlights**

contextflow Advance Chest CT is an AI solution that provides radiologists both quantitative and qualitative information related to interstitial lung disease, chronic pulmonary obstructive disease and lung cancer. It automatically detects, quantifies and visualizes key disease patterns as well as nodules in lung CTs (e. g. consolidation, ground-glass opacity, emphysema, etc.).

*This solution is provided by our partner contextflow

Artificial Intelligence

## Fujifilm · FDR EX-M1 AI box


**Highlights**

Fujifilm expands AI CAD software integration across its portfolio.[1]

- An integrated operating environment to install AI-CAD software with Fujifilm modalities
- Provides access to the latest Artificial Intelligence-Computed Aided Diagnosis (AI-CAD) technologies that support diagnostic imaging with deep learning at point of image acquisition.
- AI-CAD solutions supported include Lunit Insight CXR, GLEAMER BoneView, Qurei.ai qXR, Annalise CXR Edge
- Providing an advanced workflow and improved patient care pathway inside and outside the hospital

[1] *Integration dependent on equipment configuration environment*

Artificial Intelligence

## Fujifilm · REiLI

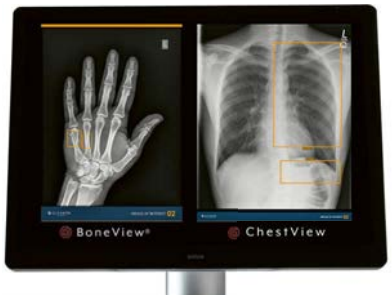
REiLI

**Highlights**

REiLI uses open APIs to support extensive Fujifilm and third-party algorithms along with an advanced rules engine to bring your preferred algorithms directly within Synapse PACS workflow. The platform can also manage multiple algorithms for a single procedure, prioritize and flag results in the Synapse PACS worklist, and store radiologist feedback on the AI results to continuously perfect algorithm accuracy.

Artificial Intelligence

## Gleamer · BoneView & ChestView




**Highlights**

BoneView is your AI Companion for bone trauma X-rays: it detects fractures, effusions, dislocations and bone lesions. It aims to increase diagnostic performances by reducing missed fractures while improving reading time.
ChestView is your AI Companion for Chest X-rays : it detects pneumothorax, pleural effusions, alveolar patterns, lung nodules, mediastinal/hilar masses, and helps increase diagnostic accuracy and detect abnormalities earlier.
BoneView and ChestView are transparently integrated in your reading environment and are CE marked (Class IIA).

Artificial Intelligence

## Mindray · ME

**Highlights**

The most innovative, advanced and high quality miniaturized ultrasound system ever designed by Mindray.
ME is the first laptop ultrasound system powered by ZST+ platform. Its AI empowered analysis smart tools such as smart cardiopulmonary assessment solution, help to quickly assess patient heamodynamic and respiratory status under critical care environment.
Stay unplugged all day with its super long battery duration for up to 8 hours scanning with U-bank.

Artificial Intelligence

## Siemens Healthineers · AI-Rad Companion

**Highlights**

The AI-Rad Companion, is a family of AI-powered workflow solutions, available as cloud or hybrid deployments. It supports you in your diagnostic tasks and may increase your diagnostic precision when interpreting medical images.
Its solutions provide automatic post-processing of imaging datasets through our AI-powered algorithms. The automation of routine workflows with repetitive tasks and high case volumes helps you to ease your daily workflow – so that you can focus on more critical issues.

# IT Systems

RIS

Business Intelligence

PACS

VNA

Remote Scanning

Pathology

Reading

Portal Solutions

Utilities / Add-ons

Mobile RIS / PACS Viewers

Dose Management Systems

Accessories / Complementary Systems

# Keeping up with all developments

## Vienna General Hospital is heading into the future with the new generation of PACS

The Vienna General Hospital in Vienna, Austria, already launched its first image data management system (PACS) in 2001 from Agfa HealthCare, today Dedalus HealthCare. The migration to IMPAX EE occurred in 2014. At the beginning of 2022, the Vienna General Hospital took the next step and, with DeepUnity, introduced the next generation of PACS, which is used in clinics around the world today. 'The partnership with Dedalus HealthCare was always very appreciative and constructive, innovation-driven, and user-oriented', says Prof. Dr Christian Herold, Head of the University Clinic for Radiology and Nuclear Medicine, praising the partner.

**"AI algorithms must be integrated into existing systems and work flows."**
***Prof. Dr Christian Herold***

What requirements do radiologists place on a modern image data management system today? Assoc.-Prof. Priv.-Doz. Dr Helmut Prosch, Department Head Deputy of the Clinical Department for General Radiology and Infant Radiology: 'It needs to make our basic activities easier, which also includes visits by doctors in training. In addition, it helps us in multidisciplinary meetings. We can answer all questions rapidly there. The system is extremely responsive. In PACS, I can display anything I want live at any level.' Around 530 interdisciplinary discussions take place every month. Ten to fifteen patients are discussed in every meeting. So radiologists deal with 5,000 to 6,000 cases every month in the case meetings alone.

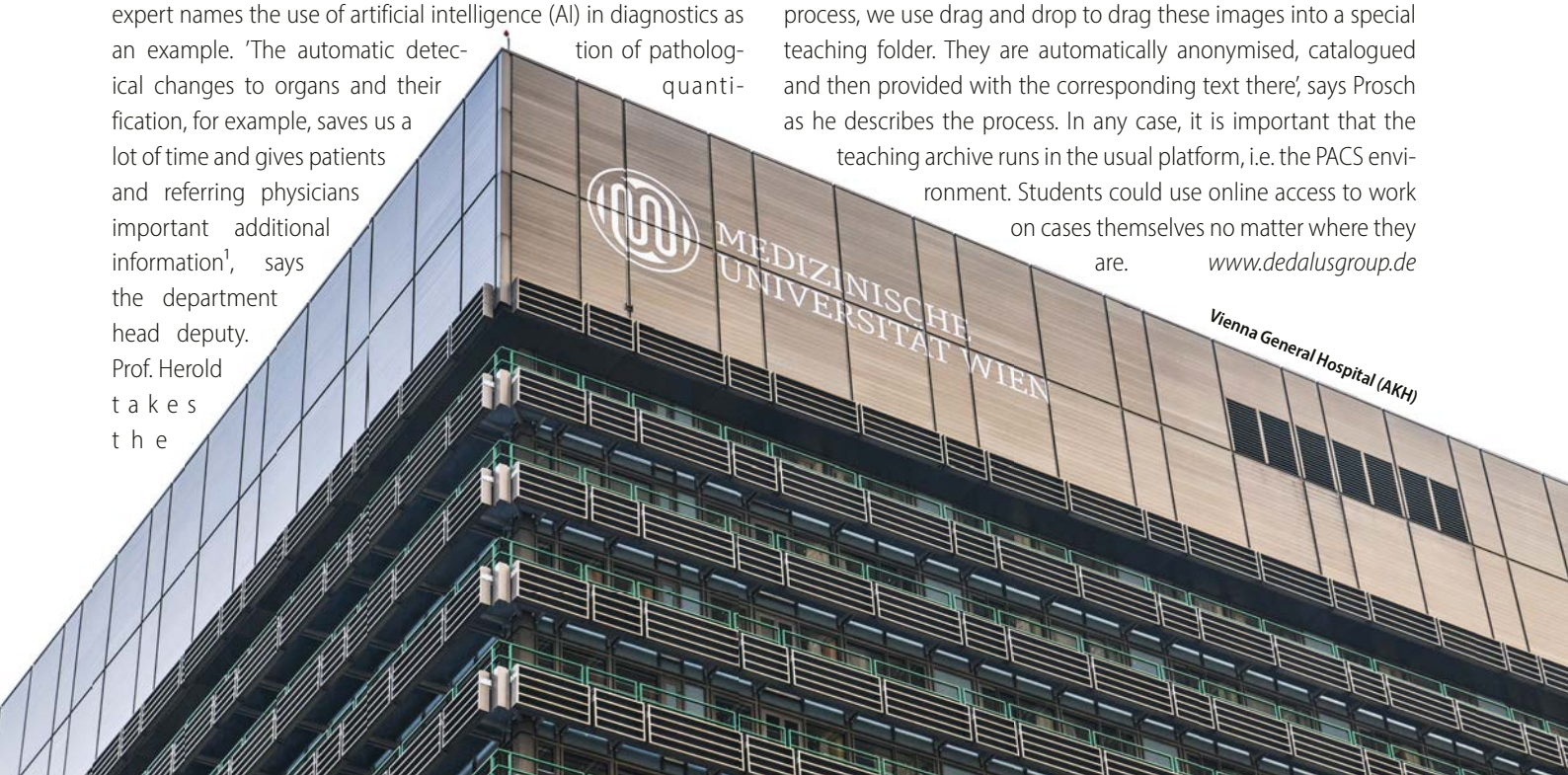
### AI as a game changer

For Prosch, IT has a key role in overcoming these challenges. The expert names the use of artificial intelligence (AI) in diagnostics as an example. 'The automatic detection of pathological changes to organs and their quantification, for example, saves us a lot of time and gives patients and referring physicians important additional information[1], says the department head deputy. Prof. Herold takes the same line, although he sees challenges associated with this: 'Yes, AI will be a very key aspect for us. But there are a great many developers, start-ups and also academic institutions in this segment who are developing their own algorithms for different applications. Therefore, it is fully impossible to purchase and/or install all these algorithms. Instead, the trend is moving towards migrating them to one platform or to existing systems – such as those in medical technology – or integrating PACS. This integration seems to work very well at Dedalus HealthCare.'

The software from contextflow, a spin-off of the Vienna General Hospital, is used in Vienna for example. 'The algorithm is integrated in our PACS so that I can load the information that has been prepared previously on a separate server into the report workflow with one mouse click and incorporate it into my assessment. The seamless integration, together with quick loading times, is greatly contributing to the high level of acceptance. For me, this duo is a successful example of an AI application in radiology', praises Dr Sebastian Röhrich, a doctor in training at the University Clinic for Radiology and Nuclear Medicine.

### New technologies for teaching

Training will be simplified further for him and his colleagues thanks to a modern teaching image archive in PACS. 'This is actually a tool that we are building for the future. The learning system will help us to easily prepare didactically valuable cases. During the reporting process, we use drag and drop to drag these images into a special teaching folder. They are automatically anonymised, catalogued and then provided with the corresponding text there', says Prosch as he describes the process. In any case, it is important that the teaching archive runs in the usual platform, i.e. the PACS environment. Students could use online access to work on cases themselves no matter where they are. *www.dedalusgroup.de*



Vienna General Hospital (AKH)

RIS

## Dedalus · Orbis RIS

**Highlights**

Orbis RIS plays a central role in optimally guiding you through the complete process in radiology; from the request to the reporting phase, through distribution of outcomes to clinicians. In addition to the standard workflow, Orbis RIS provides some advanced functionalities such as clinical rounds, correction lists for training and education, double-blind mammography reading and automatic takeover of exposure data (MPPS and DoseSR).

RIS

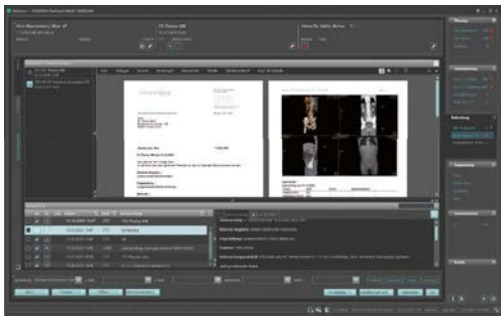
## medavis · medavis RIS – Radiology Information System


**Highlights**

medavis RIS manages the radiology workflow from appointment booking, examination, reporting to billing. The basis are optimal digital workflows and perfectly integrated interfaces to PACS, HIS and other systems. Additional modules support digital communication with patients, referring physicians or clinical staff.

RIS

## Mesalvo · RadCentre Cockpit & Speech Integration



**Highlights**

RadCentre is a comprehensive process and data management solution for radiology, nuclear medicine and radiotherapy. Based on latest technologies it offers high usability with an innovative user interface (Cockpit) and most efficient reporting with integrated speech recognition.

- Integration of received reports (specification depends on cooperating system)
- Fast and efficient creation of reports for treatment without delay

RIS

## Nexus / Chili · RIS


**Highlights**

- Modern and intuitive user interface
- Scheduling and resource management
- Seamless integration with all our radiology products, e. g. PACS and portals
- Context-sensitive integration of 3rd party solutions, e.g. speech recognition, structured reporting and dose management
- Integration server for the management and monitoring of DICOM or HL7 interfaces
- Business intelligence tools

Business Intelligence

## BMS Informationstechnologie · EasyDose$^{QM}$

**Highlights**

EasyDose$^{QM}$ supports multi-site installations as well as the integration of measuring stations and column scales. Mobile digital radiography systems can be integrated and physically located with RFID technology. All supplied information can be analyzed with an integrated business intelligence tool. EasyDose$^{QM}$ also includes a module to simulate organ dose with the help of a GPU based Monte Carlo Simulation.

Business Intelligence

## Fujifilm · Synapse Value

**Highlights**

Synapse Value is the new generation, modular, and never-stop growing software Platform for managing in advanced ways the extended Diagnostic Imaging Workflow & Reporting needs of Healthcare Organizations, through state-of-the-art informatics technologies.
Solutions based on Synapse Value can be built with limitless possibility, to cover complex clinical and administrative needs. Structured Reports with images and data are available through the creation of templates highly customized.

Business Intelligence

## medavis · cockpit4med Radiology Dashboard

**Highlights**

cockpit4med provides dashboards with key management data of a radiological facility in real time, independent of location and at any time. This accelerates the derivation of targeted measures and shortens response times. The solution uses the latest technologies and is intuitive to use.

Business Intelligence

## Mesalvo · RadCentre Analytics

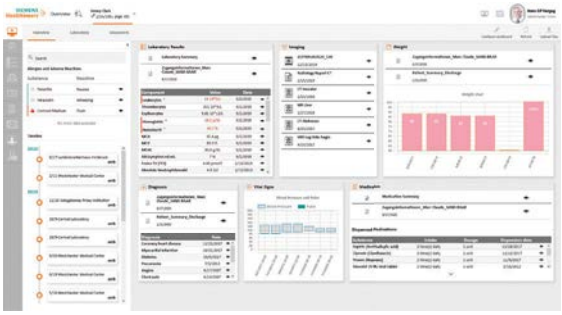
**Highlights**

RadCentre Analytics offers an integrated solution for specific data analysis and interactive reporting to increase performance in radiology.

- Predefined and high performant processing of operating figures
- Unlimited analysis options for optimisation of business outcomes
- Integrated data warehouse solution
- Visualization of radiation exposure extracted from PACS

Business Intelligence

## Siemens Healthineers · eHealth Solutions

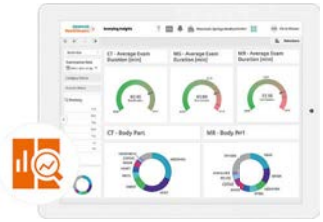


**Highlights**

eHealth Solutions fosters collaboration among healthcare providers, while enabling you to improve patient outcomes and increasing patient safety. Improved data transparency helps you to avoid unnecessary costs caused by duplicate examinations and additional administrative efforts and supports you in optimizing resources that may otherwise be tied to fragmented IT and infrastructure maintenance.

Business Intelligence

## Siemens Healthineers · teamplay Insights



**Highlights**

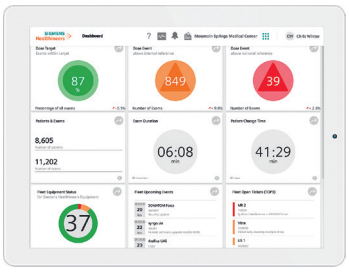
teamplay Insights* empowers well-informed decisions with deep data insights and clear, interactive data visualizations. Tackle your sophisticated challenges with the flexibility you need.

- Combine data sets and gain deeper performance insights into complex workflows and patterns
- Create a tailored dashboard to visualize your relevant data and KPIs the way you need it
- Set up interactive trackers and create standardized reports to pursue achievement of your performance targets

** teamplay is not commercially available in all countries. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed.*

Business Intelligence

## Siemens Healthineers · teamplay performance management applications



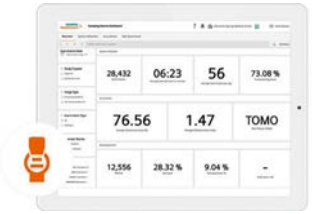

**Highlights**

teamplay performance management applications support you in improving your business performance outcomes by making enabling quick and well-informed decisions, and offering a clear overview of your clinical and operational data.* The applications provide you centralized access to operational, technical and clinical data to help you optimize your operations and to deliver higher quality of care. Smart connections between the applications amplify the data insights and provide a seamless user experience.

** teamplay Protocols and teamplay Fleet supports (selected) Siemens scanners. Please contact your Siemens representative for more details*

Business Intelligence

## Siemens Healthineers · teamplay Mammo Dashboard




**Highlights**

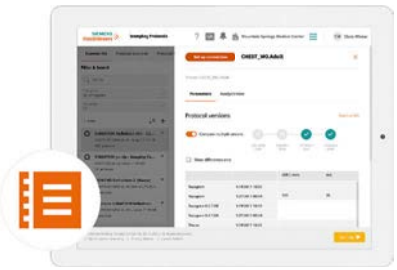
teamplay Mammo Dashboard* is specifically designed for breast care centers providing an intuitive overview of institution-specific KPIs to reveal workflow optimization potentials and support a high quality of care in breast imaging.

- Monitor your KPIs such as patient throughput, exam duration and study type to better understand your workflow
- Analyze scan details such as glandular dose and compression force to identify improvement needs and best practices
- Match staffing schedules with clinical demand of patients for capacity planning based on risk assessment data**

** teamplay is not commercially available in all countries. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed.*
*** Breast density/CAD software required*

**Business Intelligence**

## Siemens Healthineers · teamplay Protocols



**Highlights**

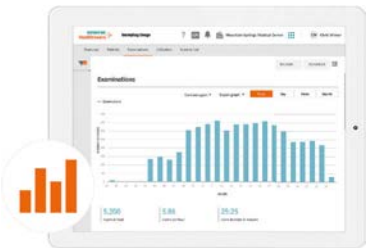
teamplay Protocols* is a protocol management system that facilitates remote access to your scanners, thus enabling central protocol management to ensure high quality of care and standardization throughout your whole organization.

- Perform systematic quality reviews easily
- Identify best practice scan protocols
- Save time and resources by remote editing, distributing and sharing protocols

** teamplay Protocols is an application to manage scan protocols and edit protocols remotely by connecting to Expert-i. It does not directly influence the scanner in its operation. teamplay Protocols for eligible Siemens CT, MR and PET/CT scanners only*

**Business Intelligence**

## Siemens Healthineers · teamplay Usage



**Highlights**

teamplay Usage* is an utilization management solution that helps to optimize imaging operations and increase efficiency. teamplay Usage brings workflow transparancy in your radiology department, helping you to understand how to increase the productivity of your imaging fleet and balance resources more efficiently.

- Monitor your KPI's to better understand your workflow
- Drill down from a whole modality to a single procedure to discover patterns like long idle times and exam durations
- Identify best practice workflows by benchmarking between locations and scanners

** Please check if teamplay is available in your country*

**PACS**

## Dedalus · DeepUnity Diagnost

**Highlights**

DeepUnity Diagnost is our most advanced PACS Client and registered as a medical device. It comes with many additional functionalities to improve your daily workflow, such as advanced visualization and postprocessing tools for radiology and cardiology. Besides DeepUnity Diagnost we offer two other non-medical devices for less demanding tasks – solutions based on your needs.

**PACS**

## Dedalus · DeepUnity DICOM Services

**Highlights**

DeepUnity DICOM Services is our efficient medical image archiving system. It allows healthcare providers to store, manage and view medical images (DICOM). Different archive possibilities:

- DICOM Archives & DICOM Cache Archive
- DICOM Thin Slice Archive
- Teaching File Archive
- Import Archive

Our medical image archive is built on a microservice architecture and Kubernetes, a state-of-the-art platform technology.

**PACS**

## Dedalus · DeepUnity PACSonWEB

**Highlights**

DeepUnity PACSonWEB is a cloud-native solution that allows you to distribute, share and visualize medical images and reports over the internet with requesting physicians, patients and across healthcare institutions. It reduces your IT burdens, since no installations and initial larger investment are needed. Moreover our solution provides you clearer financials through a "pay per study" model. Benefit from an enhanced security level due to a 24 / 7 support.

**PACS**

## Examion · X-AQS

**Highlights**

Universal software platform
for radiological image acquisition and management of all medical image data.

- High quality images in a few clicks
- Intuitive GUI with clear menu structure and icons
- Modular architecture, adaptable to all needs
- Certified diagnostic viewer with comprehensive measurement functions
- Convenient web viewer

PACS

## Fujifilm · Synapse PACS

**Highlights**

Synapse PACS uses server-side technology to display radiology, mammography, and specialty department imaging on one zero-download viewer for enhanced content access and standardized workflow. Fujifilm's vendor-neutral architecture and extensive integration capabilities power immediate access to analyses and reports, while robust AI applications bring revolutionary interpretation insights directly within the Synapse PACS workflow.

PACS

## Image Information Systems · iQ-4CLOUD

**Highlights**

- Cloud PACS solution to access, view, store, import, print and share medical images efficiently and securely – without having to worry about IT issues
- Universal platform supporting virtually any data from any specialty
- Web-based image access through zero-footprint diagnostic viewer
- Flexible image viewing on smartphone, tablet, laptop or desktop PC
- Reduced IT costs and responsibilities

PACS

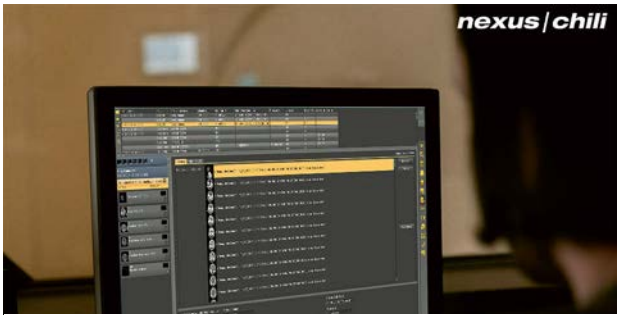
## Image Information Systems · iQ-System PACS

**Highlights**

iQ-System PACS is an easily configurable, highly scalable picture archiving and communication system. It is installed in more than 10,000 facilities ranging from small, individual, imaging centers to large multi-modality, multi-site hospital installations across more than 120 countries. It is full-featured, state-of-the-art, robust and reliable, and available in most major world languages.

PACS

## Nexus / Chili · Import PACS




**Highlights**

- PACS for external data from CD / teleradiology
- Temporary archive in addition to regular PACS
- Manual web-based import
- Automatic import with import robot
- Data reconciliation with own IDs (IHE compliant)
- Delivery to regular PACS
- Adjustable automatic data removal
- DICOM Q / R capable
- Works with any other PACS

PACS

## Nexus / Chili · PACS


**Highlights**

- Multimedia PACS
- One viewer for all areas
- Scalable (practice to enterprise)
- Multitenancy
- Fail over and load balancing
- Archiving in existing systems
- Interfaces and synchronisation with HIS / RIS
- Supports multiple IHE workflows
- Referring physician access
- Teleconferencing
- Consultation
- Portal functionality

PACS

## OR Technology · dicomPACS

**Highlights**

dicomPACS is a sophisticated, high-tech image management solution based on VNA technology. With dicomPACS, all images generated by digital X-ray, CT, MRI and ultrasound devices, as well as diverse documents (e.g., doctors' letters …) are stored in a digital patient folder and readily accessible. Our carefully designed archive and backup solutions guarantee quick access to all data and high security standards.

PACS

## Siemens Healthineers · *syngo*.plaza

**Highlights**

*syngo*.plaza is the smart PACS for reading and reporting a large variety of cases – from routine to complex.

- Centerpiece – robust performance, intuitive operation and intelligent reading tools
- Smart PACS – 3D technology, powerful storage capacities and vendor-neutral archiving even enterprise-wide
- When combined with Syngo Carbon Image & Data Management it will allow you to go beyond PACS

VNA

## Dedalus · DeepUnity eVNA

**Highlights**

DeepUnity eVNA is more than just a simple vendor neutral archive. It is a central, highly scalable element for an enterprise content strategy. The solution enables you to manage administrative data and images within the whole hospital. By following a multidisciplinary approach you can store and visualize healthcare content from different specialties. Additionally DeepUnity eVNA provides workflow optimisation, image capturing and content sharing capabilities.

VNA

## Fujifilm · Synapse VNA

**Highlights**

Fujifilm's industry-leading Synapse VNA provides access, control, and management of clinical content from across the enterprise, regardless of the generating source, file format, or siloed storage system. The robust solution also supports encounters-based workflows by automating content ingestion, associating it with the patient record, and seamlessly making it available to those who need it.

VNA

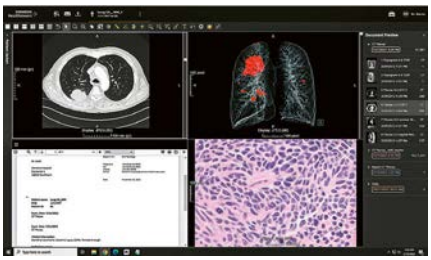
## Nexus / Chili · Web


**Highlights**

- Multi-media (DICOM, jpeg, avi, PDF …)
- Very well suited for teleradiology
- Referring physician access
- Java technology
- User concept with roles and rights
- Central user administration (LDAP, AD)
- Security measures
- Data compression (lossy & lossless)
- Suited for reporting (MPG class IIb)
- Works with any PACS

VNA

## Siemens Healthineers · Syngo Carbon IDM



**Highlights**

Syngo Carbon IDM is the universal solution that meets the requirements of a powerful enterprise data management solution for managing, sharing and archiving clinical data independent of format and origin (DICOM and Non-DICOM). Scalable storage capacities allow data management across departments.

- Patient-centric storage
- Single point of integration
- Cost-saving data management
- Patient Access
- Universal zero-footprint enterprise viewer

Remote Scanning

## Siemens Healthineers · *syngo* Virtual Cockpit

**Highlights**

*syngo* Virtual Cockpit, a software for remote scanning assistance, lets you make the most of your imaging devices. Medical staff can use this software solution to connect remotely to scanner workplaces to assist personnel at a different location, especially where more sophisticated examinations are required.

- Boost confidence by sharing in-house expertise
- Enhance patient satisfaction by improving availability
- Relieve cost pressure by enhancing flexibility

Pathology

## Fujifilm · Dynamyx

**Highlights**

Dynamyx is a vendor-agnostic, end to end digital pathology solution which can be integrated with any lab information system (LIS / LIMS) or digital slide scanner. Supporting LEAN workflow and collaboration (including online sharing). It allows pathology departments to move to digital at their own pace and allows the integration of any scanner or AI vendor via an open API throughout the life of the solution. The mature platform was designed by pathologists for pathologists and brings all of the tools to enable a pathology department to digitise and introduce LEAN working with minimal disruption and without any vendor lock in.

Reading

## Fujifilm · Synapse 3D

**Highlights**

Synapse 3D is Fujifilm's vendor-neutral advanced visualization platform with more than 50 clinical modules. The advanced pre-surgical planning tools allow surgeons & clinicians to plan the most efficient, least invasive surgical activities supporting clinical teams to provide the best possible patient outcomes.

Reading

## Konica Minolta · Exa Enterprise Imaging

**Highlights**

- Cloud-delivered enterprise imaging platform featuring a single integrated database providing a unified view of your patient and patient care
- Zero footprint viewer plus server-side rendering enable viewing any modality from any location
- Specialized viewing tools, including 3D mammography, echo / stress echo and ortho
- Custom workflow engine enables Exa to meet unique workflow requirements and goals
- Advanced analytics and dashboards to optimize your imaging business

Reading

## Dedalus · DeepUnity Discovery

**Highlights**

DeepUnity Discovery offers a PACS-centric reporting option. Radiologists, cardiologists and nuclear medicine physicians have the option to create structured diagnostic reports directly in the PACS instead of switching systems to create them in their RIS. Diagnostic images and findings can be easily managed in one system to ensure a seamless workflow in the reporting phase.

Reading

## Image Information Systems · iQ-VIEW

**Highlights**

iQ-VIEW is the vendor neutral easy-to-use multimodality reading station that has been designed by radiologists for imaging specialists. A unique previous study management using artificial intelligence accelerates the diagnostic process by automatically presenting relevant previous studies of any modalities. iQ-VIEW PRO automatically merges different patient identities from any PACS.

Reading

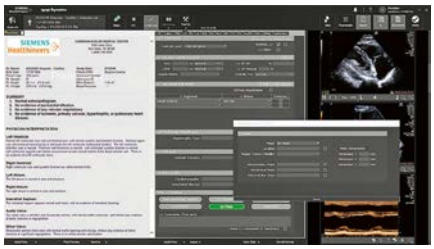
## Nexus / Chili · Diagnost Workstation


**Highlights**

- Independent of modality
- CT, MR, CR, DR, PET, PET-CT, US, XA . . .
- Mammography
- Radiotherapy
- Powerful hanging protocols
- Independent of OS
- Integrated teleradiology
- Extensible by other applications
- HIS / RIS integration
- Consultation functionalities
- Teleconferencing

Reading

## Siemens Healthineers · *syngo* Dynamics



**Highlights**

*syngo* Dynamics is a centralized hub with a full overview of multimodality cardiovascular data and operations offering streamlined, intelligent cardiology workflows and access to data across the enterprise.

- Access image reading and reporting anywhere, anytime[1]
- Operational and clinical KPI analysis on demand
- Efficient Structured Reporting for evidence-based reports
- Customizable templates for consistent data capture and efficient workflows
- Totality of cardiology data in one platform

[1] *Prerequisites include: Internet connection to clinical network, DICOM compliance, meeting of minimum hardware requirements, and adherence to local data security regulations. syngo Dynamics Remote Workplace allows users reading and reporting in low bandwidth environments. Additionally lossy compressed Images are not intended for diagnostic use.*

Reading

## Siemens Healthineers · *syngo*.via

**Highlights**

*syngo*.via is the intelligent, integrated imaging software, which offers multi-modality and fast 3D reading, innovative and AI-powered applications.
It speeds up your routine and provides actionable imaging based results to enhance care delivery and outcomes.

- Simplifying Routine – streamlined reading and reporting with powerful tools and integrated reporting solutions
- Empowering Innovation – latest technologies and *syngo*.via Open Apps provide a gateway to innovations and boost your clinical capabilities
- Adapting to you – integrating seamlessly into your IT environment and growing with all your medical and operational needs from workstation to multi-site

Portal Solutions

## Dedalus · DeepUnity PACSonWEB

**Highlights**

DeepUnity PACSonWEB is a cloud-native PACS that provides you with diagnostic functionalities and a portal to share medical images and reports over the internet with requesting physicians, patients and across healthcare institutions. It reduces your IT burdens, since no installations and initial larger investment are needed. Moreover our solution provides you clearer financials through a "pay per study" model. Benefit from an enhanced security level due to a 24 / 7 support.

Portal Solutions

## Dedalus · Patient XCare Suite

**Highlights**

- The patient portal that brings clinics, doctors and patients together
- Modular, web-based system
- Deep integration with Orbis and DeepUnitiy PACS – for comprehensive working
- Simple document exchange with referring physicians and patients
- Support of all important processes: Admission, treatment, discharge
- For patients: Easy completion of all formalities from home
- Extension with check-in terminal for self-service admission
- Secure communication: encrypted connection and two-factor authentication

Portal Solutions

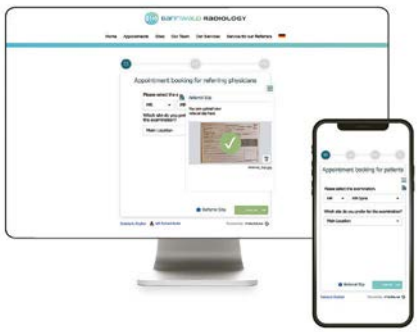
## Image Information Systems · iQ-Web Portal


**Highlights**

- Share medical results, imaging studies and reports with your patients, referring or external reading physicians
- Access studies in full diagnostic quality via QR code, direct login or crypto web links
- Share portal access e.g. via WhatsApp, paper-based QR codes or direct HIS/RIS/EMR integration
- No client installation or registration required
- HIPAA and GDPR compliant patient data sharing

Portal Solutions

## medavis · booking4med Online Appointment Booking



**Highlights**

booking4med is an online appointment solution for patients and referring physicians hosted in Germany. Thanks to the deep integration, appointments are automatically mapped in the medavis RIS scheduler. Patient data is handled with the highest security standards. No data is stored on the internet or in 3rd party systems.

Portal Solutions

## medavis · portal4med Referrer and Patient Portal

**Highlights**

With portal4med, referring physicians have direct online access to their patients' radiological reports and images. Patients can access their own records online and make them available to other physicians. The data transmission is GDPR compliant and in accordance with the highest security standards.

Portal Solutions

## Mesalvo · RadCentre Patientenportal

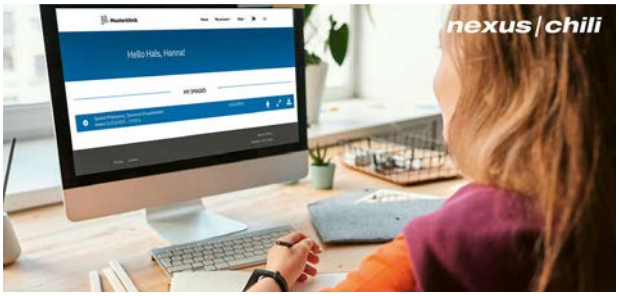
**Highlights**

The RadCentre Patientenportal supports image and report communication between doctors and patients and improves utilization in medical facilities and clinics.

- Efficient appointment management for optimized processes
- Direct data exchange with referring physicians and patients
- Provision of information sheets and consent forms before examination

Portal Solutions

## Nexus / Chili · Patient Portal




**Highlights**

Progressive solution for the exchange of medical data between institutions and patients

- Digital alternative for physical patient CD
- Protection of data privacy
- Easy integration into RIS
- Login via token, capture, and optional request of further information
- Works with all smartphones or desktop computers; no installation required for patients
- Automatic transfer of images from every PACS

Portal Solutions

## Nexus/Chili · Referrer-Portal


**Highlights**

State-of-the-art solution for radiological institutions to exchange images and results with referring physicians.

- Permanent account for referrers
- Secure exchange of images (DICOM) and other documents (PDF, JPEG etc.)
- Referrers can easily book appointments for their patients
- Automatic notification and transfer of results to referrers' systems (PACS/RIS)
- Web-based application with integrated viewer
- Protection of data privacy (e.g. 2FA)
- Easy integration
- Time and cost savings

Portal Solutions

## Nexus / Chili · Telemedicine Record

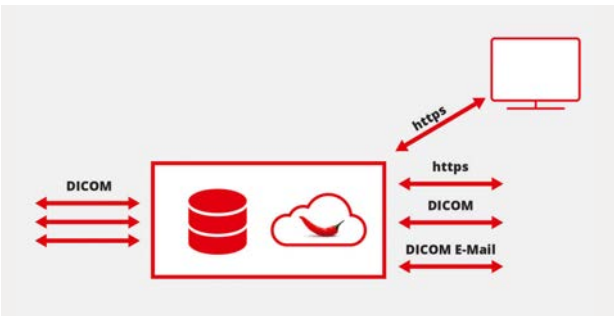

**Highlights**

Web-based platform for the exchange of multimedia documents, e. g. diagnoses, lab results, DICOM images

- Capture, display and administration of patient data
- Forwarding to referring doctors
- Upload and download of DICOM and other images
- Inter-sector exchange of multimedia patient data
- Multicentre studies with DICOM images

Portal Solutions

## Nexus / Chili · Teleradiology Gateway




**Highlights**

- Vendor-independent protocols
- DICOM, DICOM E-Mail, HTTPS
- Rule-based autorouting
- Automatic recovery after interruption
- Comprehensive security measures
- Lossy and lossless compression
- Data encryption
- Audit trails
- Diagnostic web-viewer
- Web-based administration
- Compliant to German StrlSchV and DIN 6868-159
- Works with any PACS

# Imaging resource management

## Managing the CT contrast media shortage with clinical decision support tools


**On March 31st, 2022, a city-wide lockdown to curtail the spread of the Covid-19 virus in Shanghai, China, shuttered the GE Healthcare manufacturing facility that produces 80% of the global supply of iodinated contrast media agents iohexol (Omnipaque) and Iodixanol (Visipaque). Although the plant was able to operate at 50% capacity by mid-May, the shutdown resulted in a substantial contrast media shortage that has had worldwide impact.**

Report: *Cynthia E. Keen*

To deal with the shortage, hospitals implemented strategies to conserve contrast media supplies for urgent or non-deferrable CT exams. Strategies included methods to reduce administered contrast media volume, use of a single vial for multiple patients, use of alternatives to non-ionic contrast media when clinically appropriate, and performing alternative imaging exams in lieu of contrast-enhanced CT, such as MRI, ultrasound, and PET/CT.

In addition to the recommended strategies, Brigham and Women's Hospital, Massachusetts General Hospital, seven community hospitals, three specialty hospitals, and multiple affiliated ambulatory care centres utilized a clinical decision support (CDS) tool embedded in the electronic health record (EHR) to alert clinicians about the contrast media shortage and to encourage them to modify their imaging exam orders for their patients whenever possible. Researchers assessed the impact of two EHR order entry-based interventions, reporting in the American Journal of Roentgenology that over a 90-day period beginning April 1st, the mean number of orders for contrast enhanced CT per weekday decreased by 15.2%. Additionally, a mean 12% fewer patients had these scans every weekday.

Principal investigator Daniel I. Glazer, MD, Assistant Professor in Radiology at Harvard Medical School and a member of the Center for Evidence-based Imaging of Brigham and Women's Hospital, and colleagues assessed the impact on contrast enhanced CT utilization and referring provider ordering patterns of the CDS-triggered EHR intervention. CT utilization and ordering patters were compared prior to and following two consecutive, individual EHR interventions. The study data included 79,259 patients having 41,433 exams in the pre-intervention period, 6,157 in the first post-intervention period, and 50,989 in the second one.

Prior to the contrast media shortage, the existing protocols for ordering CT exams through the EHR interface in the multi-facility hospital system enabled referring physicians to order exams with and without contrast media, with the use of contrast media at the radiologist's discretion, or not to specify at all. Additionally, ordering physicians could enter free-text clinical information about the reason for the exam as part of the order.

Beginning May 10th (intervention #1), when a referring physician ordered a contrast-enhanced CT of the neck, chest, or abdomen and pelvis, an alert was displayed advising of the contrast media shortage, and recommending specific alternative exams. Also, an email blast was sent to all practitioners in the healthcare system advising of this.

Beginning May 16th (intervention #2), it became necessary for a physician ordering a contrast-enhanced CT to enter detailed clinical information in the free-text box. Radiologists reviewed this information to determine if a non-contrast CT exam could be substituted, and did so if clinically feasible.

There was a small steady decline in the total number of patients having CT exams performed during the study period. The average number of patients having CT exams of any kind on a weekday was 1,350 pre-intervention, 1,323 first post-intervention, and 1,314 second post-intervention, a modest decline However, the number of patients having contrast-enhanced CT exams performed on weekdays declined significantly, averaging 727 daily pre-intervention, 689 first post-intervention, and 639 second post-intervention, or 53.8%, 52.1% and 48.7% percent of the total, respectively.

'The findings support the role of EHR order entry-based changes to achieve rapid impact on ordering clinician behaviour and subsequent clinical practice within a large health system', concluded the authors.

**Dr Daniel Glazer**

*Daniel I. Glazer, MD, is an abdominal radiologist at Brigham and Women's Hospital (BWH) as well as the Medical Director of CT and Cross-Sectional Interventional Radiology for Brigham Health. He is an assistant professor of radiology at Harvard Medical School as well as faculty at BWH's Center for Evidence-based Imaging (CEBI). CEBI is dedicated to achieving measurable improvements in the quality, safety, and efficiency of care delivery, using innovative information technology solutions and change management strategies.*

Portal Solutions

## Nexus / Chili · Teleradiology Portal


**Highlights**

Web-based portal that covers the entire teleradiological workflow
- Electronic request and reporting process
- Guided steps throughout the entire workflow
- Complete documentation of all steps
- Integrated quality assurance according to DIN 6868-159
- Transfer of images via DICOM
- Access to all data anywhere anytime
- Availability of data relevant to accounting

Portal Solutions

## Nexus/Chili · Upload-Portal


**Highlights**

With this, patients can provide medical data or clinical results from home – even before the hospital stay.
- Easy patient registration
- Upload of radiological images (CD, DICOM) and other documents (PDF, JPEG, etc.) by the patient
- Clinical staff can view patient information before the appointment and transfer it to their primary systems (e.g. HIS/RIS)
- Works with all smartphones and computers; no installation required
- Protection of data privacy
- More efficiency in patient admission

Portal Solution

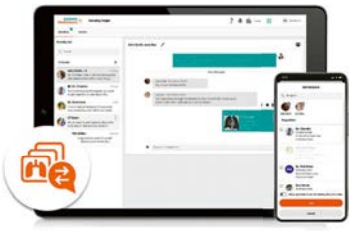
## OR Technology · ORCA – OR Cloud


**Highlights**

The medical cloud ORCA offers two exciting applications: ORCA Archive and ORCA Share.
ORCA Archive transfers and stores image files from direct sources (e.g. digital X-ray, CT, MRI and ultrasound systems) as well as from Picture Archiving and Communication Systems (PACS). At the same time, ORCA is a platform for sharing data with external partners.
The application ORCA Share facilitates exchanging images and medical findings with staff, colleagues and specialists.

Portal Solutions

## Siemens Healthineers · teamplay Images



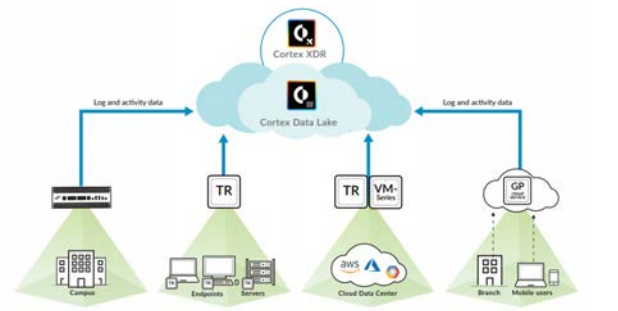
**Highlights**

teamplay Images* allows you to collaborate on imaging studies no matter where you are and no matter which device you are using in a secured way.**
- Supporting your clinicians in their collaborations on to gain insights into complex cases
- Access patient studies regardless of location or time that best fits your situation and technical capabilities
- Share studies using a secure ground up infrastructure with confidence

** teamplay is not commercially available in all countries. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed.*
*** internet connection is needed for access to the application, and a browser with HTML 5 is also needed for the desktop browser application. Within data privacy and datacenter restrictions.*

Utilities / Add-ons

## Swissray · Cortex Protection Software




**Highlights**

Best-in-class malware prevention for X-ray systems:
- Uncover threats with cloud AI and behavioral analytics
- Prevent, detect, investigate and respond to all threats
- Block known and unknown attacks with powerful endpoint protection
- Validated by Swissray
- Unique to the DACH region

Mobile RIS/PACS Viewers

## Dedalus · DeepUnity Viewer

**Highlights**

DeepUnity Viewer is a web-based solution and meant to be a universal viewer. It integrates seamlessly into your workflow and provides you secure access to all medical data and images (DICOM and non-DICOM) within the whole institution. You will get a holistic view of your study cases, no matter which system the data comes from. DeepUnity Viewer is built on a microservice architecture and Kubernetes, a state-of-the-art platform technology.

**Mobile RIS/PACS Viewers**

## Image Information Systems · iQ-4View

**Highlights**

iQ-4View is a ground-breaking diagnostic multimodality zero-footprint viewer, suitable for virtually all browsers and operating systems. It runs on almost any device (desktop computer, tablet PC or smartphone) and requires no installation on the client. iQ-4View allows reading, viewing or reviewing any kind of images, structured reports and Encapsulated PDFs.

**Mobile RIS/PACS Viewers**

## Nexus / Chili · WebViewer


**Highlights**

- Mobile image viewer
- Teleradiology
- PACS administration
- Easy integration into any other system, such as HIS / RIS / PACS / EPR
- Works without an app store
- Independent of operating system (iOS, Android …)
- Device independent (Apple, Google …)
- No app – but HTML5
- Works with any PACS

**Dose Management System**

## BMS Informationstechnologie · EasyDose$^{QM}$

**Highlights**

EasyDose$^{QM}$ liberates care professionals from most time consuming manual tasks: acquisition, documentation, analysis and archiving. It utilizes DICOM, HL7 and integrates seamlessly within existing HIS / RIS and PACS systems. Dose information about individual patients, modalities and departments can be obtained without complicating search mechanisms with a few mouse clicks. EasyDose$^{QM}$ has been developed with the end-user in mind.

**Dose Management Systems**

## Dedalus · Dose *

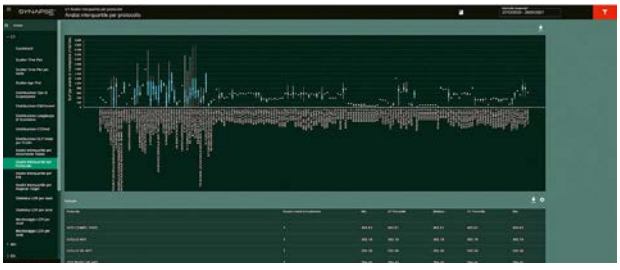
**Highlights**

Dose allows a comprehensive overview of radiation dose and provides important insights about daily dose management, clinical image quality and staff performance. It automatically monitors, evaluates, and optimizes the radiation dose patients receive across multiple facilities and modalities from different providers.

**Dose is a product developed by our partner Qaelum N. V.*

**Dose Management Systems**

## Fujifilm · Synapse Dose

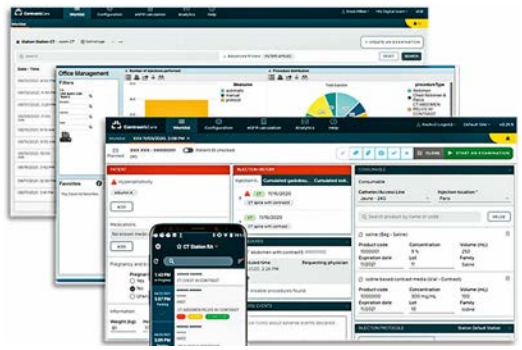


**Highlights**

Synapse Dose is a comprehensive system for monitoring and managing patient radiation exposure across different imaging modalities. It is a support for the optimization of radiological procedures and acquisition protocols, a tool for supporting clinical audit and it provides a comprehensive patient dosimetric history. General and specific dashboards track key performance indicators (KPI) to measure productivity, to achieve quality assurance and to support quality of care. Synapse Dose is the radiation dose index monitoring system developed by Fujifilm, compliant with the directive 2013 / 59 / EURATOM of the European Union.

**Dose Management Systems**

## Guerbet · Contrast & Care



**Highlights**

Contrast&Care is a solution dedicated to contrast dose management. It connects to all Guerbet injectors and Hospital Information Systems (RIS, PACS, EMR…) and collects all relevant data about contrast media usage, patient history, and injector activity. Contrast&Care facilitates the traceability of contrast media and provides several tools that help imaging centers optimize contrast media consumption.

Dose Management Systems

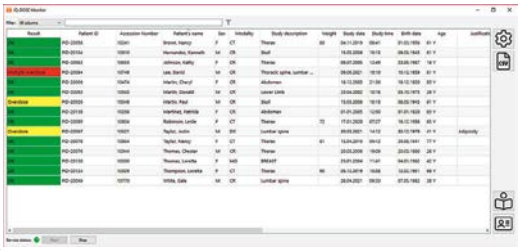
## Guerbet · Dose&Care

**Highlights**

Dose&Care is a state-of-the-art radiation dose monitoring solution, which allows documenting patient exams, understanding the reasons for excessive exposure and monitoring activities related to patient exposure. It provides the means to remain compliant with an ever-evolving regulation while improving the workflow and ensuring patient safety.

Dose Management Systems

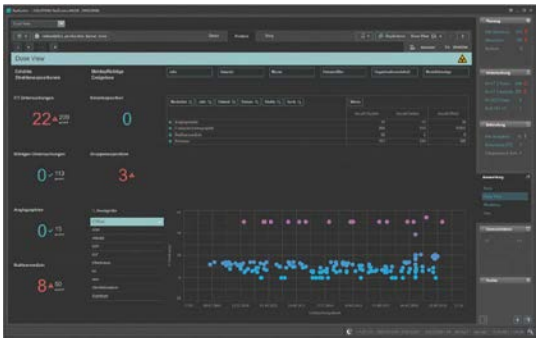
## Image Information Systems · iQ-Dose



- Highlights
- Automatic monitoring, analysis and documentation of patient radiation dose information
- Compliant with German and many international guidelines
- Vendor-neutral solution compatible with virtually any PACS
- Support of most CT, angiography, fluoroscopy, X-ray and mammography devices
- Automatic overdose notification e-mails

Dose Management Systems

## Mesalvo · RadCentre Dose View



**Highlights**

RadCentre Dose View is a stand-alone and RIS-independent dose management system to assess patient exposures due to ionizing radiation. The system is able to meet legal requirements (i.e. EU-Directive EURATOM 2013/59 and related national regulations for radiation protection) by offering consistent standards to increase the quality of radiological examinations.

Dose Management Systems

## Siemens Healthineers · teamplay Dose

**Highlights**

teamplay Dose* simplifies radiation dose management for your entire imaging fleet by providing you with easy access to radiation dose data in order to reduce dose and facilitate compliance to dose management requirements.

- Simple monitoring and managing of dose values on various levels, ranging from all modalities to a single patient
- Find the outliers and understand the root causes to take corrective actions
- Learn from your peers by benchmarking dose values on global and national levels

** Please check if teamplay is available in your country*

Accessories / Complementary Systems

## Canon · Advanced Edge Enhancement

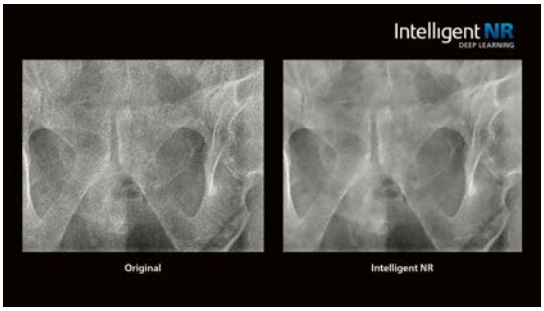
**Highlights**

Enhanced visibility of catheters, fine structures and bones

- Better visualization of foreign structures in the image
- Enhanced display of fine structures
- Better definition of the structures in soft tissue and low dose area's
- Obtain enhanced images suitable for measurement or other applications
- Catheter, small structure and bone settings depending on the specific application
- Improved visibility of bone contours for easier measurement of length and angles

Accessories / Complementary Systems

## Canon · Intelligent Noise Reduction (INR)




Optional software feature based on Deep Learning significantly improves image quality, assists with diagnosis, and possible dose benefit.

**Accessories / Complementary Systems**

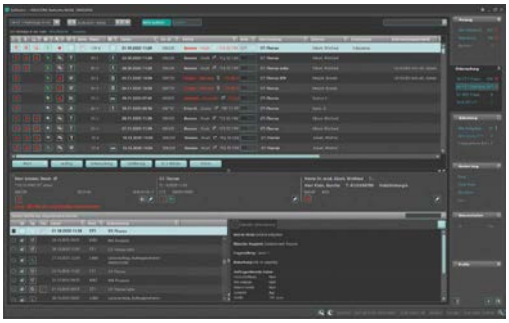
## Canon · Scatter Correction


**Highlights**

Excellent image contrast without a grid. Canon's new image processing software Scatter Correction could reduce radiation dose by up to 60 percent on your radiographic examinations. Where a grid physically reduces scatter and thereby increases the image contrast, the software mimics this process virtually. The software works by creating a scatter model, which is subsequently subtracted from the image. The result is an image with reduced scatter and increased contrast. The software is available for Canon FPD imaging systems.

**Accessories / Complementary Systems**

## Mesalvo · RadCentre Technician Profile



**Highlights**

RadCentre Technician Profile visualizes requested or performed examinations and reports at a glance and supports a fast and modality based workflow.

- Specific icons show examination status or patient information
- Images of prior examinations via integrated PACS viewer
- Interactive icons to change information or workflow status
- Scanned document files and laboratory results

# Women's Health

Tomosynthesis

Digital Mammography

Biopsy Units

Film-Screen Mammography

Mammo Workstations

Business Intelligence

Accessories / Complementary Systems

Tomosynthesis

## Fujifilm · Amulet Innovality

| Pixel output | Scan angle | Scan time |
|---|---|---|
| 50 µm / 100 µm / 150 µm | 15° / 40° | 4 s / 9 s |

**Highlights**

- Unique Fujifilm developed a-Se detector using hexagonal pixels for dynamic readout of different resolutions
- New iterative reconstruction with new level of synthetic 2D image (S-View+) (Harmony) – corrected for low noise and better visibility of details, resulting in easy reading
- Ergonomic design for user and patients
- Dynamic image processing with advanced options like fine structure correction FSC and dynamic visualization II.
- Tomosynthesis biopsy, vertical and lateral approach
- CEDM; energy subtraction for mammography
- Dual angle tomosynthesis for dose efficient with maximum diagnostic performance

Tomosynthesis

## Fujifilm · Amulet Innovality Harmony

| Pixel output | Scan angle | Scan time |
|---|---|---|
| 50 µm | 40° | 4 s |

**Highlights**

In addition to Amulet Innovality features, Harmony comes with:
new iterative reconstruction, with new level of synthetic 2D image (S-View+) – corrected for low noise and better visibility of details;
Dynamic Visualisation II a dynamic image processing with advanced options like fine structure correction FSC;
Comfort Compression which allows to reduce compression after reaching the target compression, this is recognised as being significantly less painful compared to normal compression.

Tomosynthesis

## IMS Giotto – GMM Group · Giotto Class

| Pixel size | Scan angle | Scan time |
|---|---|---|
| 85 – 83 µm | 30° | 11 s |

**Highlights**

Giotto Class is an advanced and innovative three dimensional breast imaging technology able to perform

- Digital mammography examinations (2D)
- Breast Tomosynthesis (3D)
- Synthesized 2D image generated from 3D dataset
- Combo: Tomosynthesis & digital mammography
- Stereotactic and tomo-guided biopsy in prone or upright position
- Contrast-Enhanced Mammography

IMS Giotto is a company of GMM Group

Tomosynthesis

## Planmed Oy · Clarity 3D

| Pixel size | Scan angle | Scan time |
|---|---|---|
| 83 µm | 15° | 13 s |

**Highlights**

- Digital mammography system for conventional 2D imaging, diagnostic imaging, stereotactic biopsies and Digital Breast Tomosynthesis (DBT)
- Continuous Sync-and-Shoot tomosynthesis imaging method with iterative reconstruction and Tomo-Marker technology to enable sharp and artifact free images
- Intuitive Planmed Clarity Flow touch screen based user interface

Tomosynthesis

## Siemens Healthineers · 50° Wide-Angle Tomosynthesis

| Pixel size | Scan angle | Scan time |
|---|---|---|
| 85 µm | 50° | 25 s |

**Highlights**

Advance screening and diagnostic results with high accuracy. 50° Wide-Angle Tomosynthesis provides an increased detection rate for invasive cancer of 43 %, with just a 1-view tomosynthesis scan and a 15 % dose reduction.

- Highest depth resolution with 50° Wide-Angle Tomosynthesis
- Gain a fast overview – with our synthetic visualization Insight 2D
- 40 % dose reduction as opposed to FFDM as an adjunct to tomosynthesis
- Decrease tomo reading time – with our unique, synthetic visualization Insight 3D a unique, rotating 3D display in breast tomosynthesis

Tomosynthesis

## Siemens Healthineers · Mammomat Revelation

| Pixel size | Scan angle | Scan time |
|---|---|---|
| 85 µm | 50° | 25 s |

**Highlights**

State-of-the-art digital mammography system for screening and diagnostics

- Make anatomical details clearly visible with our unique 50 ° wide-angle in tomosynthesis and breast biopsy
- Automated breast density measurement right at the acquisition workstation allows for instant risk stratification
- InSpect – our integrated specimen scanner facilitates the immediate control of the biopsy directly at the system
- Get additional diagnostic information fast with Titanium Contrast Enhanced Mammography
- Unlock the potential of your X-ray department with Fleet Level Benefits

WE WILL

# NEVER STOP

INNOVATING FOR
A HEALTHIER WORLD

## **Together,** working for **your health.**

Today Fujifilm offers a powerful new force in medical imaging, with a complete and integrated portfolio of diagnostic products and services, including CT, MRI, X-ray, endoscopy and ultrasound systems – all enhanced by advanced artificial intelligence technologies. Our mission is to help improve the accuracy of diagnosis and support earlier detection of disease. Together, we will never stop in our efforts to create and innovate for a healthier world.

FUJIFILM
Value from Innovation

fujifilm.com

**Tomosynthesis**

## Villa Sistemi Medicali · Melody IIID TS 3.0

| Pixel size | Scan angle | Scan time |
|---|---|---|
| 85 µm | 15° / 24° / 50° | 2.5 s / 4 s / 7.7 s |

**Highlights**

- Tomosynthesis function with selection of three scan angles: 15°, 24° and 50°
- Available with Amorphous Selenium FPD (standard or fast speed for tomo scan)
- Special anti-scatter grid for tomo
- Dynamic collimator with automatic recognition of compressor paddle
- Dual AEC: PRE in function of effective Breast Density and FAST in function of compressed breast thickness
- Full DICOM Acquisition workstation on-board or in a separated unit
- Ready for tomo-guided biopsy
- Ready to be implemented with Dual Energy work modality
- Optional diagnostic workstation available with CAD software

**Digital Mammography**

## Drtech Europe · Aidia

| Pixel size | Detector size | Detector type |
|---|---|---|
| 76 | 24 × 30 cm | CsI |

The "Aidia" to change your breast imaging experience

- High-definition image quality with 76 µm pixel CsI Detector
- Shortest Compression Time with Painless 1-2-3 paddle release function
- Reliable & precise automatic exposure control with AAEC & Dual Filter (Rh/Ag)
- Auto collimation with paddle barcode recognition
- Easy magnification with automatic acquisition protocol & paddle
- Specialized A.I image processing of the console SW
- Award-winning softly curved design focused on reducing patient anxiety

**Digital Mammography**

## IMS Giotto – GMM Group · Giotto Class 40000

| Pixel size | Detector size | Detector type |
|---|---|---|
| 85 – 83 µm | 24 × 30 cm | a-Se |

**Highlights**

The system is designed to drastically improve the screening and diagnostic throughput thanks to an high rotation speed and an improved vertical run speed.
The gantry is ergonomically designed to give patients a natural and more relaxed positioning.
The operating and interventional modalities include:

- Digital mammography examinations (2D)
- Breast Tomosynthesis (3D)
- Synthesized 2D image generated from 3D dataset
- Combo: Tomosynthesis & digital mammography
- High precision tomo guided or stereotactic biopsy
- Contrast-Enhanced Spectral Mammography

IMS Giotto is a company of GMM Group

**Digital Mammography**

## IMS Giotto – GMM Group · Giotto Class Smartfinder

| Pixel size | Detector size | Detector type |
|---|---|---|
| 85 – 83 µm | 24 × 30 cm | a-Se or a-Si |

**Highlights**

Giotto Class is a patented breast tomosynthesis system offering a multitude of diagnostic and interventional solutions, including Stereotactic biopsy in prone or upright position using the specific prone table accessory.

- High precision tomo guided biospy
- Combination of traditional stereo technique and tomo biopsy
- Integration with accessory for real-time acquisition of biopsy cores imaging
- The compact design allow the operator to use the system in the same room for both diagnostic and interventional procedures

IMS Giotto is a company of GMM Group

**Digital Mammography**

## Planmed Oy · Clarity 2D

| Pixel size | Detector size | Detector type |
|---|---|---|
| 83 µm | 24 × 30 cm | a-Si |

**Highlights**

- Intelligent Planmed Clarity Flow dual touch screen user interface that adapts to different imaging modes
- Image post processing that can be tailored to radiologist preferences
- Side access for optimal patient positioning and user ergonomics
- Integrated MaxView breast positioning system for maximal tissue visibility
- Easy field upgrade to Planmed Clarity 3D digital breast tomosynthesis

**Digital Mammography**

## Planmed Oy · Clarity S

| Pixel size | Detector size | Detector type |
|---|---|---|
| 83 µm | 24 × 30 cm | a-Si |

**Highlights**

- Sturdy companion for your everyday breast imaging and follow up studies
- Tailored image post-processing delivers optimal images for all needs
- Design enables perfect usability and excellent patient and user ergonomics
- Compact size, durable a-Si detector and single phase power feed make the unit optimal for demanding conditions such as mobile installations

**Digital Mammography**

## Siemens Healthineers · Mammomat Fusion

| Pixel size | Detector size | Detector type |
|---|---|---|
| 83 µm | 23 × 30 cm | CsI |

**Highlights**

Premium mammography system to enhance everyday screening and diagnostics

- Help your patients to relax with the MoodLight option
- Stereotactic biopsy option for fast seamless procedures
- New generation CsI detector technology for higher spatial resolution at low dose
- Refined workflow to perform complex tasks at the click of a button
- Personalized OpComp and OpDose
- Focus on total cost of ownership including operating costs and service
- Unlock the potential of your X-ray department with Fleet Level Benefits

**Digital Mammography**

## Villa Sistemi Medicali · Melody IIID 3.0

| Pixel size | Detector size | Detector type |
|---|---|---|
| 85 µm | 24 × 30 cm | a-Se or a-Si |

**Highlights**

- High performance X-ray generator with wide kV range (20 – 49 kV)
- Isocentric ±180° rotating C-arm with vertical and rotation motorized movements
- Dual AEC: PRE in function of effective Breast Density and FAST in function of compressed breast thickness
- Ready for optional stereotactic biopsy
- Full DICOM Acquisition workstation on-board or in a separated unit
- Upgradable to TS version with tomo
- Ready to be implemented with Dual Energy work modality
- Optional diagnostic workstation available with CAD software

**Digital Mammography**

## Villa Sistemi Medicali · Melody IIID C 3.0

| Pixel size | Detector size | Detector type |
|---|---|---|
| 85 µm | 24 × 30 cm | a-Se or a-Si |

**Highlights**

- High performance integrated X-ray generator with wide kV range (20 – 35 kV) and fine adjustment (0.5 kV step)
- Isocentric ±180° rotating C-arm with vertical and rotation (optional) motorized movements
- Available with Amorphous Selenium FPD
- Dual AEC: PRE in function of effective Breast Density and FAST in function of compressed breast thickness
- Double touchscreen LCD display to control main parameters
- Compact unit with full DICOM acquisition workstation on-board
- Optional diagnostic workstation

**Biopsy Units**

## IMS Giotto – GMM Group · Giotto Flexitable

| Pixel size | Detector size | Deployment type |
|---|---|---|
| 85 – 83 µm | 24 × 30 cm | a-Se or a-Si |

**Highlights**

Flexitable is an accessory which, in combination with the Giotto CLASS system and the Smartfinder biopsy kit, enables interventional prone biopsy procedures

- High manoeuvrability, thanks to its reduced weight, the handle and the special wheels
- Excellent ergonomics for the patient thanks to the possibility of adapting the position of the breast and inclining or raising the front end of the table to compensate for bending and come into closer contact with the chest
- Excellent ergonomics for the operator: thanks to the large vertical travel, which makes it possible to work either standing or sitting, and the absence of connecting cables when the table is powered by the battery

IMS Giotto is a company of GMM Group

**Film-Screen Mammography**

## Siemens Healthineers · Mammomat Select

| Power | Anode | Filter |
|---|---|---|
| 23 – 35 kV | Mo | Mo / Mo or Mo / Rh |

**Highlights**

An analogue system that is easy to use, provides images at the right dose and is cost-effective to offer women the standard of care they need

- Easy touch screen control for streamlined workflow
- Easy to dose right with AEC control
- Easy to invest with flexible service and upgrades
- Unlock the potential of your X-ray department with Fleet Level Benefits

**Film-Screen Mammography**

## Villa Sistemi Medicali · Melody III 3.0

| Power | Anode | Filter |
|---|---|---|
| 20 – 35 kV | Mo | Mo / Rh |

**Highlights**

- High performance integrated X-ray generator with wide kV range (20 – 35 kV) and fine adjustment (0.5 kV step)
- AEC with selection of exposure parameters in function of effective breast density
- Available with 18 × 24 / 24 × 30 cm bucky or potter accepting both cassette sizes
- Isocentric ± 180° rotating C-arm with vertical and rotation (optional) motorized movements
- Ready for optional stereotactic biopsy
- Double touchscreen LCD display to control main parameters
- Upgradable to digital version

Mammo Workstations

## Fujifilm · Amulet Bellus II

**Highlights**
- Multi-modality diagnostic workstation
- Tomosynthesis reconstruction for time saving image transfer
- Customizable GUI and workflow
- Report functionality and 3rd party report integration
- Can be integrated into existing environments
- Up to five clients
- Full RIS integration
- Dedicated Mammography reading tools
- Fast Tomosynthesis reading by using synth 2D link to related DBT slices

Mammo Workstations

## Siemens Healthineers · Mammovista B.smart

**Highlights**
- Exceptional performance for high speed tomo reading with up to 75 %[1] faster image loading
- Next-gen AI-powered tools enable workload reduction up to 63 % and up to 10 % increased accuracy in diagnosis[1]
- Full spectrum multimodal reading with motion corrected MRI data, subtraction calculation and advanced analytical tools
- Comprehensive double-blind reading management with automatic screening case recognition

[1] Data on file.

Accessories / Complementary Systems

## I.A.E. · C340

**Highlights**
- Water cooled mammography tube unit for beam scanning mammography equipments, high patients throughput screening applications
- Brass body lead free X-ray shielding internal pump for oil circulation improves oil to casing thermal Exchange
- Water cooled jacket avoids remote oil circulation
- Compact lightweight structure
- 800 W continuous dissipation for high energy techniques, high patients throughput

Accessories / Complementary Systems

## I.A.E. · XK1016T-400W

**Highlights**
- Rotating anode mammography X-ray tube, with special bi-angled target, for optimal performances with all techniques
- Two separate focal tracks, small focus on 10° and large focus on 16°, optimal resolution performances
- Reduced thermal stress on the bearings improves tube life duration
- Severe tests during conditioning assure best performances
- Compact light weight structure

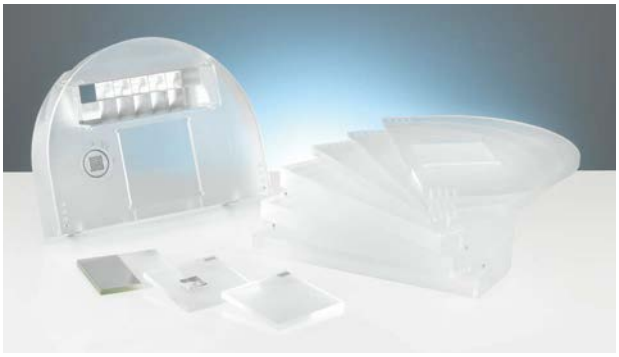
Accessories / Complementary Systems

## IMD Generators · HV Mammo Generator

**Highlights**
- Single tank High Voltage Generator for x-ray tube, all alluminium cased
- Properly developed and designed for Mammo System
- Its maximum power reaches 4 kW or 8 kW
- kV range from 20 to 50 kV
- It can be powered with dedicated Control Unit

Accessories / Complementary Systems

## PTW · Normi MAM – Digital X-Ray Test Object



**Highlights**
- Checks all relevant parameters of digital mammographic X-ray installations
- Fully complies with DIN 6868-162 and DIN 6868-14
- Modularly composed test object
- Incl. different absorbers and test elements

## Alternative to lumpectomy

# Breast cryoablation for surgically inoperative patients

**Breast cryoablation is an emerging treatment for early-stage, localized breast cancer that destroys malignant tumours by freezing them. During the past decade, it has been increasingly utilized as an alternative to lumpectomy, but its long-term benefits compared to other breast cancer treatments are still unproven.**

Report: *Cynthia E. Keen*

Breast cryoablation is a non-invasive, less than 60-minute-long outpatient procedure performed with a patient awake under local anaesthesia. The treatment causes fewer complications than breast-conservation surgery, has minimal impact on surrounding breast tissue, has less post-op pain management, and much better cosmesis. It is much less expensive, because it eliminates the need for operating room staff and equipment and requires less post-operative clinical follow-up. In addition to treating early-stage breast cancer treatments, it is used to destroy benign breast lesions and fibroadenomas, to treat patients with Stage IV metastatic breast cancer, and to treat patients unsuitable for surgery.

### Case review

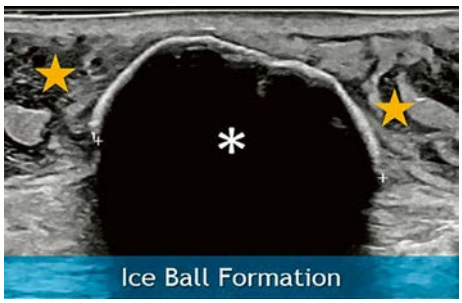
Sarah E. H. Moorman, MD, a breast imaging fellow at the University of Michigan School of Medicine in Ann Arbor, presented the hospital's experiences with breast cancer patients for whom surgery would present a high risk at the recent Society of Breast Imaging annual meeting in Savannah, Georgia. In addition to discussing patient demographics and outcomes, she explained the procedure and offered tips to make the treatment easier for both radiologists and patients. Moorman reported that the findings of the study also showed that this was a safe and effective procedure for women who do not meet the criteria of the largest multi-institutional breast cryoablation clinical trial (ICE3) currently being conducted.

The 16 patients in the study ranged in age from 57 to 94. All had comorbidities that made them poor surgical candidates, including prior stroke and serious cardiovascular conditions, advanced liver disease, COPD, emphysema, interstitial lung disease, and/or high risk of deep vein thrombosis and pulmonary embolism. To identify candidates for breast cryoablation, a surgical oncologist used surgical risk calculators while conducting preoperative evaluations, and then discussed the cases with a radiologist.

In addition to surgical risks, the physicians discussed the odds of patients surviving longer with proactive management of their breast cancer, and those for whom anti-endocrine therapy may not be effective.

None of the patients met the all-inclusion criteria used by the ICE3 trial, an ongoing clinical trial evaluating the safety and efficacy of liquid nitrogen-based cryoablation in 194 patients aged 60+ years. The ICE3 participants had unifocal, ultrasound visible low-to-intermediate stage invasive ductal carcinoma 1.5 cm or less in size, HR+/HER2-, and with no extensive ductal carcinoma in situ, invasive lobular carcinoma, or metastatic disease. The Michigan patients had one or more tumour characteristics outside of the ICE3 criteria, including tumour size greater than 1.5 cm, invasive lobular carcinoma and/or DCIS, tumours less than 0.5 cm from the skin, and ER/PR negative tumours.


**Cryoprobe (arrowheads) positioned through the center of the malignant mass (*)**




**Iceball from cryoablation freeze cycle (*) encompasses the malignant mass. Saline (stars) between skin & ice ball protects the overlying skin from injury from freezing temperature of cryoablation/underlying iceball**

### Tumours, twice frozen

Cryoablation is based on the cytotoxic effects of cold that destroy cellular tissue, and consists of a first freeze, a passive thaw phase, and a second freeze. Cold temperatures freeze extracellular water, drawing water out of the cells and causing cellular dehydration. The cells swell and rupture during the passive thaw phase. The second freeze takes advantage of tissues that have been injured during the first freeze and conduct cold temperatures more efficiently, enhancing the damaging effects of cold and expanding the area of tumour necrosis.

The procedure consists of using ultrasound imaging to guide a thin, needle-like device through the skin and into the breast tumour. The area is blasted with liquid nitrogen for 6 to 8 minutes at -40°C or lower, followed by a 10-minute thaw, and a second 6- to 8-minute freeze.

### Meeting patient requirements with ingenuity (and some paper tape)

'We identified several challenges with our patients,' said Moorman. 'Superficial tumours risk skin necrosis during cryoablation. Because saline can dissipate rapidly in pendulous fatty breast tissue, we used a 21G needle for rapid saline infusion, had a dedicated operator managing saline needle positioning, and stocked the procedure room with extra bags of saline.' She added: 'Positioning of elderly patients can be difficult, especially for patients with large breasts, neck mobility issues, and the inability to extend an arm above their head. We recommend allowing extra time for the procedure, using a wedge for patient positioning and comfort, keeping the breast in position with paper tape, and placing the patient's arm at their side or across the abdomen.'

'Patients with comorbidities such as COPD or congestive heart failure may have shortness of breath and decreased oxygen, and risk hypoxia and fluid overload. We provide oxygen to these patients and elevate the head of the bed by as much as 45°. Targeting of the mass is likely feasible with needle entry from lateral, medial, or peripheral breast, but requires about 5-6 cm of tissue depth from surface,' she explained.

Moorman advised that fat necrosis is expected to be seen on follow-up imaging, and that any changes near the cryoablation cavity suspicion findings should be promptly biopsied. All of the patients recovered rapidly, and none experienced serious side effects. There was one breast cancer recurrence, and one patient developed DCIS.

# R / F Systems


DR
Bucky
DR Detectors
CR
Flatpanel Fluoro
Fluoroscopy
Mobile DR
Portable DR
Mobile X-ray
Business Intelligence
Accessories /
Complementary Systems
IMD
GENERATORS
control-x
MEDICAL
Canon
CANON ELECTRON TUBES & DEVICES CO., LTD.
KONICA MINOLTA
Trade Art
DRGEM
Your Best Healthcare
EXAMION
X-Ray Systems · Digital Imaging · Service
FUJIFILM
GMM
INTERMEDICAL
iae


mindray
NRT
OR Technology
DEL MEDICAL
PTW
THE DOSIMETRY COMPANY
SIEMENS
Healthineers
STEPHANIX
MEDICAL IMAGING SOLUTIONS
SWISSRAY
TECHNOLOGIES
Canon
CANON MEDICAL COMPONENTS EUROPE B.V.
TECHNIX
VILLA

DR

## Canon · CXDI Elite series

| Size | Detector type | Pixel size |
|---|---|---|
| 27.4 x 35 / 35 x 43 / 43 x 42 cm | CsI | 125 µm |

**Highlights**
- Preview 1 sec. – Standard / non synchronized gen. mode
- Battery standby >10 hours
- Time for ready – 3 seconds
- IP57 – Water and Dust protection
- Cycle time – 4 seconds
- 310 kg – Surface load
- 99 images – On board image storage
- 125 µm – Pixel pitch
- Removable Cover – Cover refurbishment possible
- Weight from 2.3 kg – CXDI-720CW including battery
- Intelligent Noise Reduction – INR Image quality improvement using Deep Learning Technology
- Built-in AEC Assistance – Internal Automatic Exposure Control assistance

DR

## Canon · CXDI Pro series

| Size | Detector type | Pixel size |
|---|---|---|
| 27.4 x 35 / 35 x 43 / 43 x 42 cm | CsI | 125 µm |

**Highlights**
- From 2.9 kg
- High quality materials
- Covers can be exchanged
- Easy to clean
- Comfortable hold and grip with 4 positions
- IP55 Dust proof and water resistant
- Preview 1 sec.

DR

## Canon · CXDI-420C Fixed

| Size | Detector type | Pixel size |
|---|---|---|
| 43 x 42 cm | CsI | 125 µm |

**Highlights**

The Compact Digital Radiology System allows for easy upgrades to your existing radiography equipment and fits easily into most universal Bucky systems.
- Preview 1 sec. – Standard / non synchronized gen. mode
- Time for ready – 3 seconds
- IP57 – Water and Dust protection
- Cycle time – 4 seconds
- 99 images – On board image storage
- 125 µm – Pixel pitch
- Intelligent Noise Reduction – INR Image quality improvement using Deep Learning Technology
- Built-in AEC Assistance – Internal Automatic Exposure Control assistance

DR

## Control-X Medical · Perform-X C-Series

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW– 80 kW | CsI | 100 – 140 µm |

**Highlights**
- Fully Integrated, highly customizable DR System
- Sophisticated, Cost-Effective and Safe
- Streamlined Workflow for high Throughput
- Fully counterbalanced telescope, Auto-Stitching on Stand (up to 5 images) and Table (up to 3 images); Auto-Positioning
- Telescope length configured to room height
- Low Dose and high Image Quality
- Low Maintenance Cost

DR

## Control-X Medical · Perform-X F-Series

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW – 80 kW | CsI | 100 – 140 µm |

**Highlights**
- Fully Integrated, highly Customizable Floor-mounted DR System
- Sophisticated, Cost-Effective and Safe
- Streamlined Workflow for high Throughput
- Auto-Stitching on Stand (up to 5 images) and Table (up to 3 images); Auto-Positioning
- Low dose and high Image Quality – Low Maintenance Cost

DR

## Control-X Medical · Z-Motion (U-Arm)

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW – 80 kW | CsI | 100 – 140 µm |

**Highlights**
- Single detector universal system; minimal space requirement
- Extra-wide (100 – 200 cm) SID range
- Auto-Positioning for fast and convenient workflow
- Auto-stitching for full-spine or full-leg procedures
- Fully Counterbalanced Stand, smooth, noiseless movement, anti-collision features
- Extremely robust construction – Low Maintenance Cost

DR

## Control-X Medical · ZooMax 2 Small Animal Veterinary System

| Power | Detector type | Pixel size |
|---|---|---|
| 32 kW | CsI | 100 – 140 µm |


**Highlights**

- Fully Integrated DR System with Medical quality Components
- Highly Customizable Generator Control Console with Remote diagnostics
- Powerful single- or three-phase operation
- Heavy-duty Construction and Space-saving Design
- Fast and easy Assembly

DR

## DRGEM · Auto Positioning Ceiling System (GXR-SD Series)

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 52 / 68 / 82 kW | CsI | – |

**Highlights**

- System concept: Premium ceiling system for high-end market
- Higher accuracy through fully integrated system
- High efficiency with optimized workflow
- Patient safety with various sensors
- Multiple image stitching for stand and table
- Advanced elevating table with high patient load up to 300 kg
- Tube stand touch screen console for system, collimator, X-ray control and X-ray preview
- Collimator live streaming camera
- Options include AEC, carbon tabletop
- Optional AI software available
- Detector type: CsI, 17×17"/ 17×14" / 10×12", wired /wireless

DR

## DRGEM · Compact System (GXR-ES Series)

| Power | Detector type | Pixel size |
|---|---|---|
| 20 / 25 / 32 / 40 kW | CsI | – |

**Highlights**

- System concept: Fit for your space, workflow and budget
- Compact size (minimum floor space: 2.7×1.8 m)
- Designed for optimized workflow and smooth movements (Bucky auto tracking, wall stand counter balance)
- Intuitive movement direction indicator
- Highly customizable (wallstand and tube stand options are available)
- Tabletop with patient load up to 300 kg (optional acrylic tabletop)
- Integrated lock function
- Optional AI software available
- Detector type: CsI, 17×17"/17×14", wired / wireless

DR

## DRGEM · Diamond (U-arm Type)

| Power | Detector type | Pixel size |
|---|---|---|
| 52 / 68 / 82 kW / C52 kW | GOS / CsI | – |

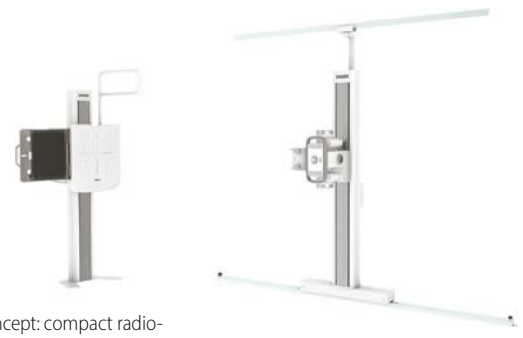
**Highlights**

- System concept: all-in-one digital radiography system
- Fully automatic digital radiography system
- High-resolution removable detectors and grids
- Touch screen controller at system
- Mobile patient table, remote control
- Automatic X-ray collimation and system positioning
- Safety sensors / AEC
- Optional AI software available
- Detector format: 17×17", wired / wireless, fixed / removable

DR

## DRGEM · DR System for Chest and Chiropractic

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 52 kW | GOS / CsI | – |



**Highlights**

- System concept: compact radiography system for clinic
- Motorized vertical synchronization with wallstand
- Image stitching for whole body
- Vertical synchronization tube with bucky
- UPS or capacitor generator is recommended
- Optional AI software available
- Detector format: 17×17" / 17×14", wired / wireless

DR

## DRGEM · Essential Ceiling System (GXR-SD Series)

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 52 / 68 / 82 kW | GOS / CsI | – |

**Highlights**

- System concept: Highly customizable DR ceiling system
- Fundamental solution at affordable price
- Ergonomic design for smooth movements and optimized workflow
- Intuitive direction movement indicator and user-friendly interface
- Elevating or floating table with high patient load up to 300 kg
- Integrated lock function
- Options include AEC, carbon tabletop, dual speed rotor and premium upgrade
- Optional AI Software available
- Detector format: 17×17" / 17×14" wired / wireless

DR

## DRGEM · Floor Mounted System (GXR-SD Series)

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 52 / 68 / 82 kW | CsI | – |

**Highlights**

- System concept: Premium floor mounted system
- Highly customizable digital diagnostic radiography system
- Auto-synchronization and auto-bucky tracking function
- Tube stand touch screen console for system, collimator, X-Ray control and X-ray preview
- Elevating or floating table
- Options include AEC, carbon tabletop, dual speed rotor, built-in charging option for detector & premium upgrade
- Optional AI software available
- Detector type: CsI, 17 × 17" / 17 × 14" / 10 x 12", wired /wireless

DR

## DRGEM · Veterinary Compact System (VXR-E/EC Series)

| Power | Detector type | Pixel size |
|---|---|---|
| 20 / 25 / 32 / 40 kW | CsI | – |


**Highlights**

- Compact & powerful system
- Space-efficient hardware
- Powerful imaging S/W
- Capacitor generator available
- Intuitive touch screen control console and monitor
- Animal positioning guide
- Easy cleaning with moving caster and urine trap
- Various table size options to match customer need
- Detector format: CsI, 17 × 17" / 17 × 14", wired/wireless

DR

## Examion · X-DRS Ceiling Automatic

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si/CsI | 100–150µm |


**Highlights**

The ceiling suspended X-ray System from EXAMION is perfectly equipped to fulfil the needs of hospitals.

- Detector size: 10 × 12" – 17 × 17"
- High quality images
- Autopositioning
- Streamline workflow
- 12" TFT Tubehead display
- For one, two or three detectors
- Option: Stitching

DR

## Examion · X-DRS Ceiling Standard

| Power | Detector type | Pixel size |
|---|---|---|
| 55 / 65 / 80 kW | a-Si / CsI | 100 – 150 µm |


**Highlights**

The Examion ceiling-suspended X-ray systems meet all hospital's requirements.

- Detector size: 10 × 12" – 17 × 17"
- High quality images
- Well proven system
- Motorized tube support
- Low maintenance effort
- Affordable price
- For one, two or three detectors
- Option: Stitching

DR

## Examion · X-DRS Floor Basic

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 – 150 µm |

**Highlights**

The floor mounted systems can be optimally adapted to the needs of the customer:

- Detector size: 10 × 12" – 17 × 17"
- High image quality
- Variant with purely mechanical movements
- Low maintenance effort
- Affordable price

DR

## Examion · X-DRS Floor Standard E

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 – 150 µm |

**Highlights**

The X-DRS Floor Standard E is especially suitable for use in large medical practices, healthcare centres and small hospitals.

- Detector size: 10 × 12" – 17 × 17"
- Elevating table
- Modern design
- Bucky tray on the table and on the wall stand are electromotively synchronised with the X-ray tube
- Intuitive handling via the Examion X-AQS control console

DR

## Examion · X-DRS Floor Z-Arm or U-Arm

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 – 150 µm |

**Highlights**

The U-Arm and Z-Arm systems are compact and space-saving X-ray machines.

- Detector size: 17 × 17"
- Motorized movements
- Ideal for small rooms and low ceilings
- Easy positioning due to direct coupling of detector and tube
- Low maintenance effort
- Affordable price

DR

## Fujifilm · FDR Smart X

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 52 / 68 / 82 kW | CsI / GOS | 150 µm |

**Highlights**

- FDR Smart X series, Fujifilm's multi-function, high quality, cost-effective X-ray solutions.
- Ceiling suspended configurations with or without Auto-positioning and floor mounted X-ray options.
- Easy positioning workflow with synchronization of X-ray tube and radiography Stand/Table.
- Integrated control and post processing GUI for a fully streamlined workflow.
- Capacitor, UPS and Line powered generator configurations solutions for all environments.
- Compatible with FDR D-EVO series GOS and cSI detectors, 43 × 43 cm, 35 × 43 cm and 24 × 30 cm.

DR

## Fujifilm · FDR Visionary Suite

| Detector type | Pixel size | Power |
|---|---|---|
| CsI / GOS | 150 µm | 50 KW / 65 KW / 80 KW |

**Highlights**

- Premium digital X-ray system
- Auto-positioning, auto-tracking, and auto-stitching functions for low stress workflow
- Power assisted movement for light touch manual operation
- LCD tube head display
- Advanced imaging with Tomosynthesis and Energy Subtraction options
- Multiple detector sizes for optimising workflow
- Deep learning AI technology with Fujifilm's EX-M1
- Console Advance with advanced image processing Virtual Grid and Dynamic Visualization II

DR

## GMM Group · Calypso – Multifunctional DR system

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW – 80 kW | a-Si | 139 µm – 148 µm |

**Highlights**

- Flexible and configurable DR ceiling system
- Auto-positioning and auto-tracking functions to enable preset system positions
- Stitching function for long skeletal segments reconstruction, both in vertical and horizontal direction
- Friendly interface and fast workflow with the innovative GMM Imaging System
- Low delivered dose, further reduced while operating in direct contact with the detector

DR

## GMM Group · Calypso F – Multifunctional DR system

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | a-Si | 139 µm – 148 µm |

**Highlights**

- Advanced DR system with a full range of floor-based configurations
- Touchscreen to control system movements and functions
- Reduced footprint for the smallest and low ceiling height rooms
- Perfect synchronization between detector and X-ray tube movements, also for stitching procedures
- Advanced GMM Imaging System for high image quality
- Suited to paediatric needs thanks to dose reduction

DR

## GMM · Kalos – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | CsI | 125 µm |

**Highlights**

Next generation high end DR solution for all radiographic applications

- Optimized for high volume patient throughput
- Widely larger tabletop and 4-ways movable bucky to avoid patient re-positioning
- More than 350 different preset automatic positions
- Smart auto tracking, available also for lateral projections with the table
- Automatic full spine and lower extremities reconstruction
- Patented autofocusing anti-scatter grid
- Remote control for motorized movements
- Integrated with Canon detectors
- Canon NE acquisition software with generator integration

DR

## Intermedical · Submarine – DR System

| Power | Deployment type | Size |
|---|---|---|
| 65 / 80 kW | fixed / portable, single / double | 36 × 43 cm wifi, 43 × 43 cm fixed |

**Highlights**

A highly integrated system ensuring high quality diagnostic results in traumatology, emergency, routine and specialized examinations.

- Easy APP auto-positioning
- Detector tracking in all directions
- Fully automatic image stitching
- Generator power up to 80 kW
- DELUXE processing provides outstanding image quality
- Fast and efficient workflow
- Full DICOM

DR

## Konica Minolta · AeroDR X90

| Power | Detector type | Pixel size |
|---|---|---|
| 65 – 80 kW | CsI | 100 µm |

**Highlights**

- Premium digital X-ray system
- Auto-positioning, auto-tracking and auto-stitching on table and wall stand for smart and easy daily workflow
- Interactive tube head display
- Excellent workflow in combination with AeroDR detector
- Soft handling of OTC with a light touch
- Best image quality, low dose
- Detector size: 14 × 17" / 17 × 17" / 10 × 12"
- Intuitive and user friendly AeroNAV console

DR

## Mindray Medical · DigiEye 280 DR System

| Power | Detector type | Pixel size |
|---|---|---|
| 30 kW / 50 kW / 65 kW | CsI | 140 µm |

**Highlights**

- High frequency generator >400kHz
- Integrated generator design to save installation space
- Multiple power choices: 30 kW, 50 kW, 65 kW
- Detector: CsI material, high DQE
- Detector size:14 × 17" and 17 × 17"
- Connection: wired & wireless detectors

DR

## NRT · Adora DRi – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| 65 kW | CsI | 125 µm |


**Highlights**

Next generation high-end DR solution for all radiographic applications

- Intelligent workflows for high volume patient throughput
- APR auto-positioning with up to 999 positions
- Lateral examinations without repositioning of the patient
- Motorized manual handling using SmartHandle joystick
- Intuitive, icon-based user controls at the tube head
- State-of-the-art ergonomics
- Table: Motorized, carbon fiber, floating top with 340° rotation

DR

## OR Technology · Amadeo R-DR motorised

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | CsI | 100/120/139/140/154 µm |

**Highlights**

The Amadeo R-DR is a universal X-ray system with bucky table and wallstand. The compact design of Amadeo R-DR allows installation in tight spaces. Simple operation and handling ensure fast training of the X-ray staff. The X-ray source and the bucky cabinet of the wall stand are designed so that they can be folded down to the floor. The large floating table top has a high load carrying capacity. As an option, a shorter table can be used in tight spaces.

DR

## OR Technology · Amadeo S-DR motorised

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | CsI | 100/139/140/154 µm |

**Highlights**

Due to its compact design and the minimum ceiling height of only 2.4 m, the motorised U-arm X-ray system is especially designed for small rooms. The very flexible and partly motorised positioning of the stand allows a wide range of images to be taken. All important settings and operating procedures are made on the integrated 10" touch display. Both, the bucky tray and the tube can be rotated and thus allow very variable X-ray settings. All necessary device positions can be pre-defined on the 60 available program positions.

DR

## OR Technology · Amadeo Z-DR motorised

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | CsI | 100/139/140/154 µm |

**Highlights**

The fully motorised swing-arm X-ray system is perfect for all adjustment techniques as well as automated whole spine and whole leg imaging (stitching). Images of the patient can be taken sitting, standing or lying down. The arm swivels fully automatically over a range of motion of 150°, rotates around the patient and thus facilitates the entire procedure enormously. Five electric motors allow effortless and accurate positioning of the stand.

DR

## Siemens Healthineers · Multitom Rax

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- The worlds first twin robotic X-ray scanner
- Set new standards in advanced musculoskeletal and trauma imaging
- Optional with Real3D and True2scale imaging
- Precise insights through unique automation
- Efficient workflows around your patients
- Comprehensive diagnoses with multiple procedures
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size:
  43 × 43 cm (RAX detector)
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

DR

## Siemens Healthineers · Multix Impact

| Power | Detector type | Pixel size |
|---|---|---|
| 55 / 65 / 80 kW | a-SI/CsI | 148 µm / 139 µm |

**Highlights**

- Floor-mounted radiography machine
- High-end technology at an economical price
- User-assisting system intelligence for X-ray examinations
- Intuitive imaging software and positioning guide, and full-motorization with SmartMove and detector tracking functions
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size:
  43 × 43 cm (Core static)
  43 × 43 cm (Core XL)
  35 × 43 cm (MAX wi-D)

DR

## Siemens Healthineers · Multix Impact C

| Power | Detector type | Pixel size |
|---|---|---|
| 55 / 65 / 80 kW | a-Si / CsI | 148 µm / 139 µm |

**Highlights**

- Ceiling-mounted radiography with myExam Companion
- High-end technology at an economical price
- User-assisting system intelligence for X-ray examinations
- Intuitive imaging software and positioning guide, and optional motorization and tracking functions
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size:
  43 × 43 cm (MAX detector)
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

DR

## Siemens Healthineers · Multix Impact E

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW | a-Si / CsI | 139 µm |

**Highlights**

- Floor-mounted radiography system
- Easy and intuitive system handling
- Essential digital X-ray imaging
- Economic Total Cost of Ownership
- Detector size: 43 x 43 cm (CORE XL)

DR

## Siemens Healthineers · Ysio Max

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Streamline workflows with unique automation for fast, simple and safe positioning
- Standardize outcomes to obtain consistently high image quality for all patients
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Tailor the modular system to precisely meet your requirements
- Detector size:
  43 × 43 cm (MAX detector)
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

DR

## Siemens Healthineers · Ysio X.pree

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**
- User-assisting system intelligence for X-ray examinations
- Unique automation for fast, simple, and safe positioning
- 3D camera for patient positioning and advanced collimation
- Smart imaging concept for an excellent level of consistency
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size:
  43 × 43 cm (MAX static)
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

DR

## Stephanix · RAD Series Pro DReam

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | Wireless | 125 µm |

**Highlights**
- Manual or vertical tracking version
- Single or multi-detectors room
- Fixed or tilting wall Bucky
- Floating elevating tabletop for patient weight up to 300 kg
- Intuitive user interface with unlimited preset APR
- Possibility to share wireless detectors with different Stephanix modalities
- Detector: wireless solutions
- Up to three Flat Panel Detectors, indirect conversion

DR

## Stephanix · Statif DReam

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | Wireless | 125 µm |

**Highlights**
- Multipurpose DR solution for small budgets
- It can be dedicated to chest and extremities examinations
- Low footprint for wide range of procedures at standing, sitting or lying patient
- Manual or motorized (SID and vertical movement)
- User-friendly interface
- Table: Optional carbon or elevating tabletop, on wheels

DR

## Stephanix · Statif Pro DReam

| Power | Deployment type | Pixel size |
|---|---|---|
| Up to 80 kW | Wireless | 125 µm |

**Highlights**
- Low footprint for wide range of procedures at standing, sitting or lying patient
- C-arm shaped for cross exams
- Autopositioning regarding each protocol
- Automatic and virtual collimation, additional filtration
- User-friendly interface
- Wireless IR remote
- Automatic positioning, collimation, filtration, parameters
- Table: Optional carbon or elevating tabletop, on wheels

DR

## Stephanix · Xtreme DReam

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | Wireless | 125 µm |

**Highlights**
- Manual, vertical tracking or autopositioning version
- Single or multi-detectors room
- Fixed or tilting wall bucky
- Floating elevating tabletop for patient weight up to 300 kg
- Intuitive user interface with unlimited preset APR
- Possibility to share wireless detectors with different Stephanix modalities
- Detector: wireless solutions
- Up to three Flat Panel Detectors, indirect conversion

DR

## Stephanix · Xtreme Premium

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | Wireless | 125 µm |

**Highlights**
- Autopositioning
- Motorized suspension in three directions
- Tilting wall Bucky
- Elevating floating tabletop for patient weight up to 350 kg
- Intuitive user interface with unlimited preset APR
- Detector: fixed and wireless solutions
- Single or multi-detectors room
- Possibility to share wireless detectors with different Stephanix modalities
- Based on sensitive technology for effortless handling

DR

## Swissray · ddRAura U

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 148 / 139 µm |

**Highlights**

- Automated Positioning System with unlimited APR programs
- Detector size: 43 × 43 cm
- Image display in 3 seconds
- 10.1" tube mounted touchscreen interface
- Single or dual detector options
- Off detector / Off center imaging
- Wireless handheld remote control or footswitch
- Small footprint
- Single focus stitching option

DR

## Swissray · ddRElement

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 | a-Si/CsI | 139 |

**Highlights**

- Multifunctional, high-throughput DR system for all general radiography examinations
- Built-in 43 x 43cm flat panel detector delivers superb image quality
- Effortless system adjustment, variable SID, detector tilt and mobile patient table provides easy access to operator and patient
- eXpert and SwissVision Touch-Screen workstation, includes digital positioning guide
- Robust design, maintenance friendly
- Fits into very small rooms
- Swiss made

DR

## Del Medical · FMT

| Power | Detector size | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | 24 × 30, 35 × 43, 43 × 43 cm CsI | 148 µm |

**Highlights**

- Compact and economical floor mounted tube stand with low ceiling requirement of just 2.2 meters
- Technologist friendly digital display of SID and tube angle
- Easily accessible tube mounted lock release for 180° column rotation
- High quality table with four-way floating table top and 318 kg patient weight limit – table base can house generator electronics for additional space savings
- Space efficient wall stand for wireless or fixed detectors with 148 cm of vertical travel

DR

## Del Medical · FMT18M

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | GOS / CsI | 140 / 148 µm |

**Highlights**

- Tube lock control for 180° column rotation
- 10.4-inch tube mounted touchscreen console for generator control, detector selection, SID and tube angle display
- Ergonomic tube handle with all-lock release optical sensor
- Elevating table with 6-way float, table top mounted controls with 363 kg patient weight limit
- Ergonomic wallstand with full receptor movement to the floor and patient handgrips
- Optional rotating DR tray
- 43 × 107 / 43 × 43 / 35 × 43 / 24 × 30 cm detector

DR

## Del Medical · FMT18T

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | GOS / CsI | 140 / 148 µm |

**Highlights**

- Easily positioned floor mounted tube stand for efficient workflow
- Vertical tracking to table and wall stand
- 10.4-inch tube mounted touchscreen console for generator control, detector selection, SID and tube angle display
- Ergonomic tube handle with all-lock release optical sensor
- Change the table bullet to read Elevating table with 6-way float, table top mounted controls with 363 kg patient weight limit
- Premium wallstand
- Optional rotating DR tray for 35 × 43 cm wireless flat panel detector

DR

## Del Medical · FWFC

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | GOS / CsI | 140 / 148 µm |

**Highlights**

- Affordable and flexible imaging solution for medical imaging centers and urgent care facilities
- Digital display of SID and tube angle
- Easy installation - floor to wall or floor to ceiling tube tracks
- Pressure activated 180° column rotation
- High quality table with four-way floating tabletop and 318 kg patient weight limit
- Space efficient wallstand for wireless detectors with 148 cm of vertical travel
- 43 × 108 / 43 × 43 / 35 × 43 / 24 × 30 cm detector

DR

## Del Medical · OTC18M

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | GOS / CsI | 140 / 148 µm |

**Highlights**

- Ceiling mounted tube crane with lightweight and precise manual positioning
- 10.4-inch tube mounted touch-screen console for generator control, detector selection, SID and tube angle display
- Five-tier telescoping column with 180 cm reach for head-to-toe imaging
- Ergonomic tube handle with all-lock release optical sensor
- 6-way patient table with 363 kg weight limit
- Ergonomic wallstand with full receptor movement to the floor and patient handgrips with tilting option
- 43 × 108 / 43 × 43 / 35 × 43 / 24 × 30 cm detector

DR

## Del Medical · OTC18S

| Power | Detector type | Pixel size |
|---|---|---|
| 40 / 50 / 65 / 80 kW | GOS / CsI | 148 µm |

**Highlights**

- Ceiling mounted tube crane with automated tube rotation for motorized stitching functionality
- Elevating table with 6-way float, motorized auto-tracking receptor, and 363 kg patient weight limit
- Tilting wallstand featuring auto-tracking receptor with full movement to the floor and patient handgrips
- 10.4-inch tube mounted touchscreen interface for system control and stitching set up
- DELWORKS digital radiography with choice of 43 × 43 cm or 35 × 43 cm detectors

DR

## Del Medical · OTC18T

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | GOS / CsI | 140 / 148 µm |

**Highlights**

- Ceiling mounted tube crane with lightweight and precise manual positioning
- Vertical tracking to table and wall stand
- Ergonomic tube handle with all-lock release optical sensor
- 10.4-inch tube mounted touchscreen console for generator control, detector selection, SID and tube angle display
- Elevating table with 6-way float, table top mounted controls with 363 kg patient weight limit
- Tilting wallstand with full receptor movement to the floor and patient handgrips
- 43 × 107 / 43 × 43 / 35 × 43 / 24 × 30 cm detector

DR

## Del Medical · Straight Arm

| Power | Detector type | Pixel size |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | CsI | 148 µm |

**Highlights**

- Economical and space-efficient X-ray system perfect for Ambulatory Clinics, Imaging Centers or Urgent Care facilities
- Efficient isocentered design keeping the detector and X-ray beam in constant alignment
- Flexible movement with extensive range of arm and image receptor rotation
- Motorized variable SID adjustment of 100 to 200 cm
- Extensive vertical travel 42 to 163 cm
- Optional mobile patient table for recumbent exams
- Choice of fixed or wireless flat panel detector

DR

## Del Medical · Universal Veterinary

| Detector type | Pixel size |
|---|---|
| CsI | 140 µm |

**Highlights**

Universal veterinary systems are equipped with an integrated tubestand and an anatomically programmed, high-frequency generator providing a cost-effective and time-saving solution for the veterinarian who seeks maximum capability in minimal space. Includes:

- Welded construction table with 2 or 4-Way float top and urine trap
- Integrated tube stand travels full length of table
- Angulating tube arm, angulation dial, and operator handle
- Electric locks
- Foot-activated exposure switch

DR

## Examion · X-DRS Floor Z-Arm or U-Arm

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 – 150 µm |

**Highlights**

The U-Arm and Z-Arm systems are compact and space-saving X-ray machines.

- Detector size: 17 × 17"
- Motorized movements
- Ideal for small rooms and low ceilings
- Easy positioning due to direct coupling of detector and tube
- Low maintenance effort
- Affordable price

DR

## Villa Sistemi Medicali · Armonicus

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 143 µm |

**Highlights**

- Compact and flexible U-arm design for extended use, including general radiographic, emergency and orthopedic studies.
- Configurable with integrated or wireless FPD and either with manual or automatic collimator
- Available with a wide choice of X-ray tubes and generators
- 10" touch Screen control panel and infrared remote control as standard
- Simplified user interface, with single movement functional push buttons
- A wide range of available and pre-programmable system's positions
- Operating with 2 grids, with dedicated grid parking
- Complete range of examinations allowed, including stitching procedure

DR

## Villa Sistemi Medicali · Moviplan iC with Ceiling Suspension

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 µm / 143 µm |

**Highlights**

- High-end solution allowing great application flexibility and high production capacity
- Touch screen interface integrated on tube-head
- Tiliting chest stand with special horizontal positioning for exams on mobile stretchers
- Rapid and precise system positioning thanks to full auto-tracking and autopositioning
- Available with stitching and dual energy functions
- Detector size: 35 × 43 cm / 43 × 43 cm

DR

## Villa Sistemi Medicali · Moviplan iC with Floor-mounted Column

| Power | Detector type | Pixel size |
|---|---|---|
| 50 / 65 / 80 kW | a-Si / CsI | 100 µm / 143 µm |

**Highlights**

- Innovative design with no unsightly cables
- Anti-collision system and reduced thickness rails
- Table commands with distinctive "light barrier"
- Touch screen interface integrated on tube-head for immediate inputs
- No patient limitation thanks to high weight capacity
- Electronic tomography with free selection of angle
- Available with stitching, auto-positioning, dual energy functions
- Detector size: 35 × 43 cm / 43 × 43 cm

Bucky

## GMM Group · Opera RT20 – RAD and TOMO Unit

| Power | Table | Table height |
|---|---|---|
| 32 kW – 80 kW | Floor mounted | Adjustable |

**Highlights**

- Compact X-ray units ensure application versatility and operational efficiency
- X-ray tube remarkable displacements for easy execution of examinations and oblique incidences also on stretchers
- Total safety and comfort for the patient and enhanced diagnostic results in examinations of the spine, thorax, legs, etc.
- Utmost user-friendliness also in combination with wallstands

Bucky

## Stephanix · RAD Series

| Power | Table | Table height |
|---|---|---|
| Up to 80 kW | Floating | Fixed / variable |

**Highlights**

- Designed to correspond with your application and budgetary considerations
- Multi-functional and digital-ready
- Ergonomically shaped with floating table for easy positioning
- Small space requirement
- Wide range of general procedures
- Intuitive touch screen generator with anatomical programming
- Floor or ceiling tubestand
- Tomography
- Compact and reliable solution
- Upgradable to DR

Bucky

## Trade Art 2000 · Bloomix 120 E-DR

**Highlights**

Bloomix 120 E-DR is the latest generation digital bucky stand. It is equipped with a 129 x 43 cm active area digital flat panel. One-shot scan: this technological innovation allows radiologist not to use stitching tool of multiple anatomical parts anymore. The device is ideal for all radiographic applications:

- Full vertebral column
- Pelvis and lower limbs
- Chest
- Vertebral column tracts
- Weight-bearing foot
- Joints
- Skull
- Shoulder

Bucky

## Trade Art 2000 · Bloomix 120 E-M

**Highlights**

Bloomix 120 E-M is the latest generation digital bucky with an active area from 43 x 43 cm to 123 x 43 cm, thanks to the stitching function. The device is ideal for all radiographic applications:

- Full vertebral column
- Pelvis and lower limbs
- Chest
- Vertebral column tracts
- Weight-bearing foot
- Joints
- Skull
- Shoulder

Bucky

## Trade Art 2000 · Bloomix Room - Ceiling

| Power | Table | Table height |
|---|---|---|
| 65 / 80 kW | Variable height | 500 – 825 mm |

**Highlights**

- Bloomix 120 E-DR: is the latest generation digital bucky stand. It is equipped with a 129 x 43 cm active area digital flat panel
- Bloomix Ceiling: ceiling stand that support the x-ray source (tube-sheath complex), mounted on rails to the ceiling and includes the manual collimator to perform radiological exams
- Bloomix Table EV: variable-height horizontal radiology table with two-degree of freedom radiolucent panel and equipped with an electrical support structure

Bucky

## Trade Art 2000 · Bloomix Room - Standing

| Power | Table | Table height |
|---|---|---|
| 65 / 80 kW | Variable height | 500 – 825 mm |

**Highlights**

- Bloomix 120 E-DR: is the latest generation digital bucky stand. It is equipped with a 129 × 43 cm active area digital flat panel
- Bloomix Standing: column stand supports the x-ray source (tube-sheath complex) and includes the manual collimator to perform radiological exams
- Bloomix Table EV: variable-height horizontal radiology table with two-degree of freedom radiolucent panel and equipped with an electrical support structure

Bucky

## Villa Sistemi Medicali · Moviplan 800

| Power | Table | Table height |
|---|---|---|
| 32 / 40 / 50 / 65 / 80 kW | Floating | Fixed / adjustable |

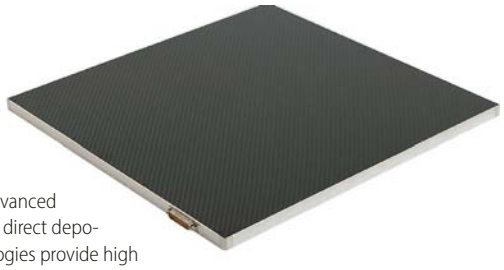
**Highlights**

- Modular bucky system for general radiographic applications, musco-skeletal diagnostic room or emergency ward
- Several configuration options: table available with motorized lift, floor-mounted or ceiling suspended tubestand
- Optional tomographic functionalities
- Available with standard or tilting chest stand
- Cassette size: 13 × 18 – 35 × 43 cm

DR Detectors

## Canon Electron Tubes & Devices · FDXA4343R

| Size | Detector type | Pixel size |
|---|---|---|
| 43 × 43 cm | CsI / Tl | 140 µm |



**Highlights**

- Our proven advanced fine CsI/Tl and direct deposition technologies provide high resolution and high contrast.
- The reflective coating in the CsI / Tl screen provides high sensitivity.
- Standard cassette size
- Prompt display of preview / full images and short cycle time enable fast image acquisition.
- Unique moisture-proof sealing method provides an extremely reliable CsI / Tl screen that is protected from degradation.
- AED available

DR Detectors

## Canon Electron Tubes & Devices · FDX2121F

| Size | Detector type | Pixel size |
|---|---|---|
| 21 × 21 cm | CsI / Tl | 205 µm |

**Highlights**

- Dynamic FPD for mobile C-Arm
- Our proven advanced fine CsI / Tl and direct deposition technologies provide high DQE and better resolution
- Unique moisture-proof sealing method provides an extremely reliable CsI / Tl screen that is protected from degradation
- High speed & low-noise ROIC prvide low-noise and real time image

DR Detectors

## Canon Electron Tubes & Devices · FDXA3543RPW / FDXA4343RPW

| Size | Detector type | Pixel size |
|---|---|---|
| 35 × 43 cm / 43 × 43 cm | CsI / TI | 125 µm |

**Highlights**

- Wireless type Portable FPD
- Incorporates our proven advanced fine CsI / TI and direct deposition technologies
- Unique moisture-proof sealing method used for the CsI / TI screen
- Standard cassette size
- Automatic switching between wireless / tethered mode
- Short cycle time (less than 10 s)
- Recharging in tethered mode
- Detachable cable connector

DR Detectors

## Canon Electron Tubes & Devices · FDXA3543RP

| Size | Detector type | Pixel size |
|---|---|---|
| 35 × 43 cm | CsI / TI | 140 µm |

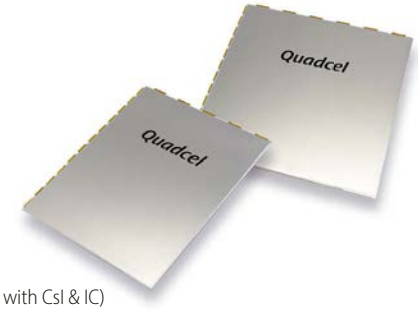
**Highlights**

- Portable flat panel detector
- Our proven advanced fine CsI / TI and direct deposition technologies provide high MTF and excellent resolution
- Unique moisture-proof sealing method provides an extremely reliable CsI / TI screen that is protected from degradation
- Standard cassette size
- Prompt display of preview / full images and the short cycle time enable fast image acquisition
- Compact and lightweight for easy handling
- DC power input type is selectable

DR Detectors

## Canon Electron Tubes & Devices · FM3543S-D6T / FM4343S-D6T

| Size | Detector type | Pixel size |
|---|---|---|
| 35 × 43 cm / 43 × 43 cm | CsI / TI | 140 µm |




**Highlights**

- FPD Module (TFT panel with CsI & IC)
- Incorporates Canon's proven advanced fine CsI / TI and direct deposition technologies
- Unique moisture-proof sealing method used for the CsI / TI screen
- World leading image quality
- Fast solution for high performance in cassette-sized FPD
- Distinguished unique FPD
- Extraordinary performance
- Minimum cost and shortest time

DR Detectors

## Canon · CXDI Control Software NE

**Highlights**

CXDI control software NE is made exclusively for use with Canon digital radiography systems. This software helps to optimise workflow and reduce the procedure steps needed to complete exams.

- Instant viewing of high quality images
- Optimised workflow with minimum operation steps
- Interactive GUI for intuitive operation
- Single and prepacked protocols
- Emergency study capability
- Suspend exam / reject analysis
- Automatic forwarding rejected images to a designated analysis workstation
- Automatic image stitching included
- Scatter correction software (optional)
- Advanced edge enhancement software (Optional)

DR Detectors

## Canon · CXDI-402C / 702C Wireless

| Size | Detector type | Pixel size |
|---|---|---|
| 35 × 43 / 43 × 42 cm | CsI | 125 µm |

**Highlights**

Wireless flat panel detector range

- Durable and ergonomic shaped wireless detectors
- Ergonomic detector design for easy hold, easy handle and easy position
- Dust- and water proof (IP55)
- Optional docking station for detector check-in, detector battery charging and image transfer
- Equipped with last image hold for secured image transfer

DR Detectors

## Canon · CXDI-410C / 710C / 810C Wireless

| Size | Detector type | Pixel size |
|---|---|---|
| 27.4 × 35 / 35 × 43 / 43 × 42 cm | CsI | 125 µm |

**Highlights**

Wireless flat panel detector range

- Ultralight wireless detectors
- Increased durability by strong carbon fiber construction techniques
- Ergonomic detector design for easy hold, easy handle and easy position
- Dust- and water proof (IP57)
- Docking station for detector check-in, detector battery charging and image transfer
- Equipped with on-board memory where 99 images can be stored (in stand-alone-mode)

DR Detectors

## Canon · CXDI-RF Wireless B1

| Size | Detector type | Pixel size |
|---|---|---|
| 43 × 42 cm | CsI | 160 µm |

**Highlights**

True dynamic and static imaging in one detector
- Low weight 3.5 kg
- Wired and wireless
- Water and dustproof IP57
- Optional scatter correction software for static and dynamic imaging
- Maximum flexibility in a clinical setting
- Ergonomic design for easy hold, handle and position

DR Detectors

## Canon · DR-Upgrade-within-2-minutes

| Size | Detector type | Pixel size |
|---|---|---|
| 43 × 42 / 35 × 43 / 27.4 × 35 cm | CsI | 125 µm |

**Highlights**

Easy upgrade solution for any X-ray system in two minutes using just two components
- No connections or modifications to your existing X-ray system is necessary
- Easily add DR to any X-ray system using just two lightweight components
- Simply pick up and move to any X-ray system
- Optional integrated USB DAP meter
- CXDI-410C / 710C / 810C / 402C / 702C wireless flat panel detector
- DR upgrade within 2 minutes. Freedom within reach

DR Detectors

## DRGEM · AcquiDR

| Size | Detector type | Pixel size |
|---|---|---|
| 43 × 36 cm / 43 × 43 cm | GOS / CsI | – |

**Highlights**
- System concept: DR retrofit solution
- Radmax acquisition workstation
- Turns any analog X-ray system into a fully digital radiography system
- Easy to apply to any X-ray generator (AED function included)
- DICOM 3.0 compatible
- Simple installation and operation
- Optional image stitching program
- Optional AI software available
- Vet software available
- Detector format: CsI, 17×17" / 17×14" / 10x12", wired / wireless

DR-Detectors

## Examion · X-DR

| Size | Detector type | Pixel size |
|---|---|---|
| 14 × 17" / 17 × 17" | a-Si / CsI | 100 – 150 µm |

**Highlights**

Customized Retrofit solutions for stationary, mobile and portable X-ray equipment. The right detector for any application.
- Detector: 14 × 17" / 17 × 17"
- Excellent image quality
- Perfectly matched hardware and software components
- Reliable workflow

DR Detectors

## Fujifilm · FDR D-EVO III G80i

| Detector type | Pixel size | Size |
|---|---|---|
| GOS | 150µm | 43 x 80cm |

**Highlights**
- Latest generation high quality, long-view DR images without stitching lines
- Highly portable, wireless design for both surgery and emergency care settings
- Brings added portability for spine and orthopaedic uses
- Patented IIS technology for High DQE and low noise at low doses
- Smartswitch AED
- Deep learning AI technology with Fujifilm's advanced image processing Virtual Grid and Dynamic Visualization II
- Fujifilm exclusive antibacterial Hydro AG coating

DR Detectors

## Fujifilm · FDR D-EVO series

| Size | Detector type | Pixel size |
|---|---|---|
| 24 × 30 cm – 125 × 43 cm | GOS / CsI | 150 µm |

**Highlights**
- FDR D-EVO series detectors are rugged, lightweight, water and dust-resistant
- Ultra-lightweight, FDR D-EVO III features an innovative flexible film based TFT layer
- Patented IIS technology for High DQE and low noise at ultra-low doses
- Smartswitch AED
- Image storage mode
- Fujifilm exclusive antibacterial Hydro AG coating
- Multiple sizes for all examinations.

**DR Detectors**

## Konica Minolta · AeroDR 1417 HD3 (G5)

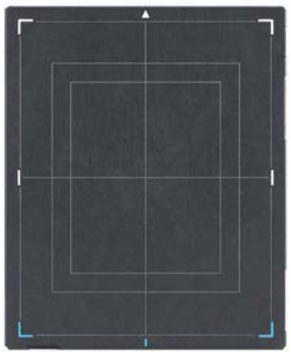
| Size | Detector type | Pixel size |
|---|---|---|
| 14×17" / 35×43 cm | CsI | 100 µm |

**Highlights**
- Antibacterial Carbon SMC cover
- Pixel size: 100 micron High Definition
- DDR Ready
- AeroDR Storage mode to store images
- MIL-STD-810G military drop test certified
- Lightweight for easy handling: 2.6 kg
- Load resistance of 400 kg
- 130 kg bending resistance
- Two second preview
- Waterproof IPX6

**DR Detectors**

## Konica Minolta · AeroDR 1417 HL - GIF

| Size | Detector type | Pixel size |
|---|---|---|
| 14×17"/35×43 cm | CsI | 100 µm |



**Highlights**
- Glass-free detector
- Lightest-weight detector – 1.9 kg
- Higher DQE
- Antibacterial Carbon SMC cover
- Pixel size: 100 micron High Definition
- AeroDR Storage mode to store images
- MIL-STD-810G military drop test certified
- Load resistance of 400 kg
- 130 kg bending resistance
- Waterproof IPX6

**DR Detectors**

## Konica Minolta · AeroDR 1417 SL - GIF

| Size | Detector type | Pixel size |
|---|---|---|
| 14×17" / 35×43 cm | CsI | 100 µm |

**Highlights**
- Glass-free detector
- Lightest-weight detector – 1.8 kg
- Higher DQE
- Antibacterial Carbon SMC cover
- Pixel size: 100 micron high definition
- AeroDR Storage mode to store images
- MIL-STD-810G military drop test certified
- Load resistance of 400 kg
- 130 kg bending resistance
- Waterproof IPX6

**DR Detectors**

## Konica Minolta · AeroDR HD

| Size | Detector type | Pixel size |
|---|---|---|
| 14×17" | CsI | 100 µm |

**Highlights**
- Portable digital X-ray detector
- Pixel size: 100 µm – high definition
- Able to display micro structures
- Better visibility of bone trabecular
- No "pixel shape" when zooming in
- Lightweight for easy handling: 2.6 kg
- Load resistance of 400 kg
- 130 kg bending resistance
- Two second preview
- Waterproof IPX6

**DR Detectors**

## Konica Minolta · AeroDR NS

| Size | Detector type | Pixel size |
|---|---|---|
| 14×17" | CsI | 150 µm |

**Highlights**
- Ideal for CR replacement
- ImagePilot all-in-one console for registration + acquisition + viewer + measurements + miniPACS functionality
- Automatic Exposure Detection (AED) no cable connections needed
- Internal access point
- AeroStorage for working offline
- Bone suppression options

**DR Detectors**

## OR Technology · Medici DR upgrade

| Size | Detector type | Pixel size |
|---|---|---|
| 12×10" / 14×17" / 17×17" | CsI | 100/120/139/140/154 µm |

**Highlights**

Upgrading to digital made easy!
X-ray detector retrofit for your existing stationary and mobile X-ray system
Two versions of the system are available:
- DR retrofits with wireless X-ray detector incl. dicomPACS DX-R acquisition and diagnostic software for X-ray images with touch screen
- DR retrofits with tethered X-ray detector incl. dicomPACS DX-R acquisition and diagnostic software for X-ray images with touch screen

DR Detectors

## Stephanix · Canon CXDI-RF Wireless B1

| Size | Detector type | Pixel size |
|---|---|---|
| 17×17" | Fixed or wireless | 160 µm |

**Highlights**

- 20 years ago, Stephanix was a "digital" pioneer by installing a Flat Panel Detector in a remote-controlled table.
- Stephanix remains a leader in its category by integrating WiFi portable dynamic FPD in its remote systems.
- Wired and wireless, true dynamic and static imaging inside the bucky and direct projections outside the bucky, so easily with one detector.
- Low weight 3.5 kg
- Water and dustproof
- Stephanix, french manufacturer and integrator, generator of talent

DR Detectors

## Stephanix · Nomad DReam

| Size | Detector type | Pixel size |
|---|---|---|
| 14×17" / 17×17" | Various types & brands | 125 µm / 148 µm |

**Highlights**

- To get easily the digital benefits in analogue x-ray rooms and mobile units
- No modification or generator connection
- Several panel brands and sizes are available
- Advanced functions: APR, post-processings
- DICOM connectivity
- Shareable solution with other Stephanix modalities

DR Detectors

## Del Medical · Delworks EDR

| Size | Detector type | Pixel size |
|---|---|---|
| 43×107 / 43×43 / 35×43 / 24×30 cm | GOS / CsI | 140 / 148 µm |

**Highlights**

- Delworks intuitive software delivers outstanding image quality, reduced patient dose, and efficient clinical workflow
- Powerful and user-friendly retrofit DR system
- Choice of wireless detectors
  E17C fixed: 43×43 cm
  E14C wireless, premium: 35×43 cm
  E24C: 24×30 cm
  Delworks LLI monolithic: 43×107 cm for long length imaging
- Single workstation for image display and processing and integrated generator control
- Delworks FIT mobile tablet-based workstation option for ultimate portability

DR Detectors

## Del Medical · Delworks LLI

| Detector type | Pixel size |
|---|---|
| Long Length 43 x 107 cm | 140 µm |


**Highlights**

- Extensive image area – 43×107 cm enables full spine and long leg imaging with a single exposure
- Eliminates stitching misalignments
- Portable for upright or supine acquisition
- Choice of Mobile Positioning Holder, Mobile Vertical Holder or VS50 wall stand

DR Detectors

## Villa Sistemi Medicali · VDX 3543PW

| Size | Detector type | Pixel size |
|---|---|---|
| 35×43 cm | aSi / CsI | 100 µm |

**Highlights**

- Complete cordless positioning freedom, typical of a conventional cassette
- Outstanding pixel size of 100 µm, for the highest image quality
- Auto-triggering mode: the detector automatically synchronizes the acquisition once the X-ray source starts the emission
- System equipped with battery charger and two batteries as standard
- Enhanced productivity with DICOM functions

CR

## Konica Minolta · Regius Sigma II

| Slots | Capacity | Pixel size |
|---|---|---|
| 1 | 60 Plates / h | 87.5 / 175 µm |


**Highlights**
- Only 28 kg
- Foot print only 0.31 $m^2$
- Ultra compact: Konica Minolta's smallest and lightest CR reader
- Environmentally friendly with an energy consumption of max. 100 VA
- Cassette size: From 18 × 24 cm to 35 × 43 cm

CR

## OR Technology · Divario CR-T2 / CR-Tm

| Slots | Capacity | Resolution |
|---|---|---|
| 1 | 73 Plates / h | 10 Pixel / mm |

**Highlights**
- Small – compact desktop unit (0.30 $m^2$ footprint)
- High quality – constant, high-resolution image quality
- Flexible – portable, suited for mobile use; Stitching (optional) – for full spine and long leg X-ray images – the separate images are stitched together automatically (auto-stitching)
- Fast – maximum processing capacity: 73 cassettes per hour for 18 × 24 cm format
- Divario CR-Tm – with extra high resolution up to 50 µm (mammography compatibility)

Flatpanel Fluoro

## GMM Group · Clisis Evolution – Remote controlled

| Power | Detector type | Pixel size |
|---|---|---|
| 65 – 80 kW | a-Si | 139 – 148 µm |

**Highlights**
- Four-way floating tabletop with a rear accessibility
- Minimum table to floor distance for a safer patient access
- Autofocusing Grid for a wide range of focal distances
- Software algorithms (Virtual Grid and Virtual Scan) for high image quality and low dose
- Tomosynthesis, Dual Energy, Stitching and DSA for specialized examinations
- Fast and efficient workflow in a single integrated imaging system

Flatpanel Fluoro

## GMM Group · Opera Evolution – R / F Remote-controlled tables

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | a-Si | 139 – 148 µm |

**Highlights**
- Result of years of experience and best-seller among RF systems
- Configurable for a wide range of applications
- Compact and ergonomic design for an easy placement
- Dual Grid System for the selection of the most appropriate grid
- Dose reduction, intuitive gesture and post-processing functions to improve diagnostic exams
- Stitching and advanced imaging procedures (DSA, Dual Energy and Tomosynthesis)

Flatpanel Fluoro

## GMM Group · Opera Sharp Evolution – Remote-controlled system

| Power | Detector type | Pixel size |
|---|---|---|
| 50 kW – 80 kW | a-Si | 139 – 148 µm |

**Highlights**
- Exclusive cross-levers system for a safe positioning of the patient
- High longitudinal travel and free access to the table from all four sides
- Dual grid system for an appropriate grid selection
- Fully-integrated solution for high image quality
- Dose reduction, removable grid and advanced software algorithms, also for paediatric patients
- Advanced procedures and long skeletal segments reconstruction

Flatpanel Fluoro

## GMM Group · Opera Swing Evolution – Multifunctional system

| Power | Detector type | Pixel size |
|---|---|---|
| 50 – 80 kW | a-Si | 139 – 148 µm |

**Highlights**
- Revolutionary RF system with 13 degrees of freedom
- Cantilevered adjustable height table to improve system accessibility
- Execution of exams in direct contact with the unconstrained detector
- Easy execution of lateral and oblique projections
- Autofocusing Grid solution for the best focalization
- Intuitive interface, fast workflow and high image quality in any standard and advanced procedure
- Fully-integrated solution for high image quality

Flatpanel Fluoro

## NRT · Adora DRFi – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| 80 kW | CsI | 160 µm |


**Highlights**

Next generation high-end hybrid solution for all radiographic applications

- Efficient examination cycles and increased patient comfort
- Combines radiography, low dose fluoroscopy and serial imaging
- APR auto-positioning with up to 999 positions
- Motorized manual handling using SmartHandle joystick
- Intuitive, icon-based user controls at the tube head
- Configurable controls to meet clinical requirements
- Table: Motorized, carbon fiber, floating top with 340° rotation

Flatpanel Fluoro

## NRT · Celex – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| 80 kW | CsI | 160 µm |


**Highlights**

Next generation multi-purpose tilt C-arm solution

- Hybrid offering fluoroscopic, serial and radiographic imaging
- Table load capacity of 300 kg; best in class SID of 150 cm
- Intuitive controls, focus on ergonomics and patient comfort
- Save and restore any position – permanently or on the fly
- Detachable table option for maximum examination flexibility
- Small foot print and maximum work areas for staff
- Table: Left or right side suspended; detachable table option

Flatpanel Fluoro

## Siemens Healthineers · Luminos Agile Max

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Stronger synergies – with a true 2-in-1 solution
- Sharper imaging – for fast, confident diagnosis
- Safer use – to protect patients and technologists
- Detector size:
  43 × 43 cm (MAX detector )
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)
- Unlock the potential of your X-ray department with Fleet Level Benefits

Ysio Max options:

– Fully integrated ceiling-suspended tube with bucky tracking
– MAX wi-D and MAX mini detectors
– SmartOrtho: long leg and full spine imaging

Flatpanel Fluoro

## Siemens Healthineers · Luminos dRF Max

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Stronger synergies – with a true 2-in-1 solution for radiography and fluoroscopy
- Sharper imaging – for fast, confident diagnosis with a large 43 × 43 cm Max dynamic detector
- Safer use – to protect patients and technologists with a 48 cm minimum table height, full patient access from all sides and SmartTouch
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size: 43 × 43 cm (MAX detector)
  – 35 × 43 cm (MAX wi-D)
  – 24 × 30 cm (MAX mini)

Flatpanel Fluoro

## Siemens Healthineers · Luminos Impulse

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Trust your results – Excellent image quality and low radiation dose
- Optimize your capabilities – High-value all around through clinical versatility
- World-class service and support – For continuous operations
- Unlock the potential of your X-ray department with Fleet Level Benefits
- High level of cybersecurity
- Detector size: 43 × 43 cm (MAX detector)
  35 × 43 cm (MAX wi-D)

Flatpanel Fluoro

## Siemens Healthineers · Luminos Lotus Max

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Flow in system operation thanks to seamless integration of all components
- Flow in clinical versatility with a wide range of examinations and diverse patient types
- Flow in dose management thanks to pre-defined organ programs, proven dose-saving CARE focus and image processing
- Unlock the potential of your X-ray department with Fleet Level Benefits
- High level of cybersecurity
- Detector size:
  43 × 43 cm (MAX detector )
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

Flatpanel Fluoro

## Siemens Healthineers · Multitom Rax

| Power | Detector type | Pixel size |
|---|---|---|
| 65 / 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- The worlds first twin robotic X-ray scanner
- Set new standards in advanced musculoskeletal and trauma imaging
- Optional with Real3D and True2scale imaging
- Precise insights through unique automation
- Efficient workflows around your patients
- Comprehensive diagnoses with multiple procedures
- Unlock the potential of your X-ray department with Fleet Level Benefits
- Detector size:
  43 × 43 cm (RAX detector )
  35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

Flatpanel Fluoro

## Stephanix · D²RS

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | a-Si / CsI | 148 µm / 160 µm |

**Highlights**

- Unmatched patient coverage
- Patient weight up to 310 kg
- Autopositioning regarding each protocol
- Smart access for secure patient transfer
- Dose optimization with virtual collimation, additional filtration, video camera ...
- Intuitive user interface
- Wireless IR remote
- Secondary console
- DSA
- Stitching
- Tomosynthesis

- Second tubestand and additional detectors
- Motorized: Automatic positioning, collimation, filtration, parameters

Flatpanel Fluoro

## Stephanix · D²RS 90 / 90

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | a-Si / CsI | 148 µm / 160 µm |

**Highlights**

- +90° and -90° tilting
- Unmatched variable height from 38 to 148 cm
- Unmatched patient coverage
- Patient weight up to 310 kg
- Autopositioning regarding each protocol
- Motorized: Automatic positioning, collimation, filtration, parameters
- Smart access for secure patient transfer
- Intuitive user interface
- Wireless IR remote
- Secondary console

- DSA
- Stitching
- Tomosynthesis
- Dose optimization with virtual collimation, additional filtration, video camera ...

Flatpanel Fluoro

## Stephanix · D²RS 90/90 – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | a-Si / CsI | 160 µm |

**Highlights**

- +90° and -90° tilting
- Unmatched variable height from 38 to 148 cm
- Unmatched patient coverage
- Patient weight up to 310 kg
- Autopositioning regarding each protocol
- Motorized: Automatic positioning, collimation, filtration, parameters
- Smart access for secure patient transfer
- Intuitive user interface
- Wireless IR remote
- Secondary console

- DSA / stitching / tomosynthesis
- Dose optimization with virtual colli mation, additional filtration, video camera ...
- True Dynamic and Static Imaging in one detector

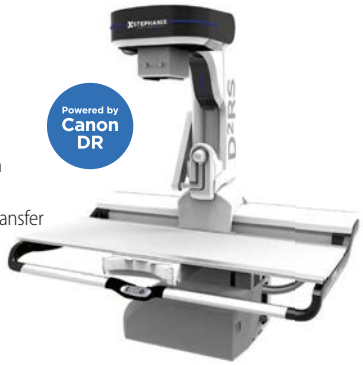
Flatpanel Fluoro

## Stephanix · D²RS – Powered by Canon DR

| Power | Detector type | Pixel size |
|---|---|---|
| Up to 80 kW | CsI | 160 µm |

**Highlights**

- Unmatched patient coverage
- Patient weight up to 310 kg
- Autopositioning regarding each protocol
- Smart access for secure patient transfer
- Dose optimization with virtual collimation, additional filtration, video camera ...
- Intuitive user interface
- Wireless remote
- Secondary console
- DSA / stitching / tomosynthesis
- Second tubestand and additional detectors



- Motorized: Automatic positioning, collimation, filtration, parameters
- True Dynamic and Static Imaging in one detector

Flatpanel Fluoro

## Villa Sistemi Medicali · Apollo DRF 4.0

| Power | Detector type | Pixel size |
|---|---|---|
| 65 – 80 kW | a-Si / CsI | 148 µm |

**Highlights**

- Premium digital remote controlled system for full clinical coverage in R/F applications
- New tomosynthesis function
- New borderless tabletop and touch screen collimator
- New touch screen control console with integrated intercom system and smart-touch joysticks

- Simplified patient positioning system through integrated camera
- Available with DSA and stitching options
- Detector size: 43 × 43 cm

### Flatpanel Fluoro

## Villa Sistemi Medicali · Apollo EZ DRF 4.0

| Power | Detector type | Pixel size |
|---|---|---|
| 65 – 80 kW | a-Si / CsI | 148 µm |

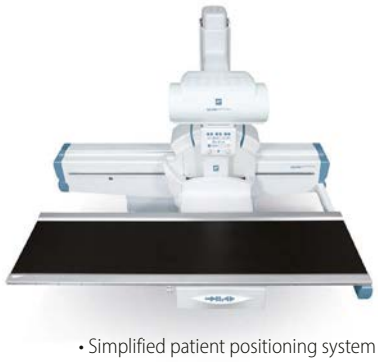
**Highlights**

- Compact and cost-effective digital system for all the needs of radiographic and R/F imaging
- New tomosynthesis function
- Touch screen collimator
- New touch screen control console with integrated intercom system and smart-touch joysticks
- Simplified patient positioning system through integrated camera
- Available with DSA and stitching options
- Detector size: 43 × 43 cm

### Flatpanel Fluoro

## Villa Sistemi Medicali · Apollo Open DRF 4.0

| Power | Detector type | Pixel size |
|---|---|---|
| 65 – 80 kW | a-Si / CsI | 148 µm |



**Highlights**

- Premium digital remote controlled system with open tabletop, allowing 4-side access to the patient
- New tomosynthesis function
- Touch screen collimator
- New touch screen control console with integrated intercom system and smart-touch joysticks
- Simplified patient positioning system through integrated camera
- Available with DSA and stitching options
- Detector size: 43 × 43 cm

### Fluoroscopy

## Villa Sistemi Medicali · Apollo 4.0

| Power | II format | CCD-matrix |
|---|---|---|
| 50 / 65 / 80 kW | 9" / 12" / 16" | 1 k × 1 k |

**Highlights**

- Premium remote controlled system for full clinical coverage in R/F applications
- Up to 180 cm Source to Image Distance
- Oblique projections at table edges and electronic tomography
- New touch screen control console with integrated intercom system and smart-touch joysticks
- Easy patient positioning system through integrated camera
- Possibility to perform stitching exam with portable wireless detector

### Fluoroscopy

## Villa Sistemi Medicali · Apollo EZ 4.0

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- Easy patient positioning system through integrated camera
- Possibility to perform stitching exam with portable wireless detector

### Mobile DR

## DRGEM · Topaz

| Power | Width | Weight |
|---|---|---|
| 32 / 40 kW | – | – |

**Highlights**

- System concept: Collapsible Motorized mobile DR System
- Enhanced mobility with touch-sensitive handle
- Optimized image quality with advanced Radmax software
- Safety bumper and brake with LED Indicator
- Wide LCD touch screen
- Storage compartment for detector and other equipment
- Wider coverage of ±325° (Column rotation)
- Remote diagnosis
- Remote control
- Collimator live streaming camera
- Optional AI software available
- Detector type: GOS / CsI
- Detector format: 17 × 14", wireless

### Mobile DR

## Examion · X-DRS Mobile Pro 500

| Power | Width | Weight |
|---|---|---|
| up to 50 kW | 54 cm | 520 kg |


**Highlights**

TThe X-DRS Mobile Pro 500 is a battery powered and motorized X-ray system with detector that meets all the needs of the hospital.

- Compact size
- Telescopic column
- Powerful: up to 50 kW
- 8.4"Tubehaed display
- Easy moving

Mobile DR

## Examion · X-R Mobile 320

| Power | Width | Motorized |
|---|---|---|
| 32 kW | 61.8 cm | no |


**Highlights**

The X-R Mobile 320 is a robust basic model of an X-ray system with good features and an affordable price.

- Compact
- Easy maneuvering and positioning
- Rotating colum (optional)
- Width: 61.8 cm
- Weight: 170 kg

Mobile DR

## Fujifilm · FDR GO Plus

| Power | Width | Weight |
|---|---|---|
| 32 kW | 56 cm | 440 kg |

**Highlights**

- Lightweight, compact chassis ensures superb manoeuvrability even in the tightest of spaces.
- Collapsible column for a clear view ahead.
- Quiet power assist drive delivers less disruption in the quietest environments
- Multiple tube/collimator controls for fast, easy operation
- Large 19" touchscreen monitor with friendly icons for enhanced post processing
- Up to four hours use on a single charge
- Deep learning artificial intelligence (AI) technology with Fujifilm's advanced image processing Virtual Grid and Dynamic Visualization II

Mobile DR

## Fujifilm · FDR nano

| Power | Width | Weight |
|---|---|---|
| 2.5 kW | 55 cm | 90 kg |

**Highlights**

- Groundbreaking compact, lightweight mobile x-ray cart only 90 kg
- Spin and Slide four-wheel castors enable superb movement control
- Utilizes D-EVO series detectors and Virtual Grid technology to maintain high image quality at lower doses
- Integrated Console Advance rotates freely for improved viewing from any position
- Up to twelve hours use (around 240 exposures) on a single charge of the Lithium-ion batteries
- Plug-in exposures, increases operation time
- Fujifilm exclusive antibacterial Hydro AG coating on high use areas a world first for mobile DR x-ray systems.

Mobile DR

## Fujifilm · FDR Xair

| Power | Width | Weight |
|---|---|---|
| 4.5 kW | 30 × 25 × 14 cm | 3.5 kg |

**Highlights**

- FDR Xair's ultralight compact portable design provides a strong advantage when accessibility to normal medical treatment settings is difficult.
- FDR Xair can provide a portable solution and a high-mobility workflow even in unconventional medical scenes.
- The built-in lithium polymer battery enables up to 100 images in environments where there is no electricity*.
- Flat-surface design provides easy cleaning and maintenance.
- Fast turn on and user-friendly simple button layout provides an efficient workflow.
- Highly durable LED light source for use in variable environments.

**depends on the exposure conditions*

Mobile DR

## GMM Group · MAC D – Mobile radiographic unit

| Power | Detector type | Pixel size |
|---|---|---|
| 32 kW | a-Si | 139 µm – 148 µm |


**Highlights**

- Compact and ultra-lightweight digital mobile unit
- Quick approach to bedridden/reduced mobility patients
- High frequency generator and flat panel detectors for a superior image quality
- Arm lock and autobrake system for a safe transportation
- Fully-integrated interface to control both manual and automatic exposure settings
- Advanced components and image processing software for dose reduction

Mobile DR

## Intermedical · Compact DR Plus

| Power | Width | Weight |
|---|---|---|
| 32 kW | 57.6 cm | 412 kg |

**Highlights**

Motorized mobile unit, battery powered, easy to handle and operate

- Telescopic arm
- Wide choice of available detectors
- Full DICOM connectivity
- 19" touchscreen user friendly interface
- Available in analogue version as well
- 40 kW version available both analogue and digital

Mobile DR

## Konica Minolta · AeroDR TX

| Power | Width | Weight |
|---|---|---|
| 40 kW – Monoblock | 54 cm | 520 kg |

**Highlights**
- Motorized, very easy to maneuver
- Retractable, telescopic column
- AeroDR detector technology
- DDR ready
- In-bin charging
- Unique Detector/Grid alignment
- Detector sharing with X-ray rooms
- Antibacterial Carbon SMC cover detector
- Pixel size: 100 m – High Definition
- MIL-STD-810G military drop test certified detectors

Mobile DR

## Konica Minolta · AeroDR X10

| Power | Width | Weight |
|---|---|---|
| 32 kW | 61.8 cm | 170 kg |

**Highlights**
- Fully integrated digital mobile X-ray system
- The AeroDR detector can easily be stored and at the same time automatically charged in the bin
- 100 percent wireless communication for effortless usage at patient's bedside
- Detector sharing with X-ray rooms

Mobile DR

## Mindray Medical · MobiEye 700 Mobile DR System

| Power | Width | Weight |
|---|---|---|
| 30 kW / 50 kW | 47 cm | 370 kg |

**Highlights**
- Marvelous mobility with intelligent operation
- Bionic design manipulator with eight high flexible mechanical joints
- Superior power management technology
- Remote motion control and remote exposure control
- 19-inch multiple-touch screen
- Lighter and smaller
- High reliability and compatibility
- Detector auto-charging

Mobile DR

## OR Technology · Amadeo M mini

| Power | Width | Weight |
|---|---|---|
| 5 kW | 56.5 cm | 79 kg |

**Highlights**

The Amadeo M mini enables wireless digital X-rays of the entire body trunk, including thorax, spine, abdomen and pelvis. The device remains usable even in the case of a power interruption. Both the laptop and the detector are stored in a protective housing. The compact X-ray unit is simple and easy to move. Folded together, it is easy to transport and even fits into a station wagon. Steps and uneven terrain are no obstacle. The wheels allow easy 360° rotation when folded, which makes it much easier to handle it.

Mobile DR

## Siemens Healthineers · Mobilett Elara Max

| Power | Footprint | Weight |
|---|---|---|
| 35 kW | 127.8 cm (l) × 59.8 cm (w) | Approx. 380 kg |

**Highlights**
- High-end, fully digital mobile X-ray system
- Compact system design, easy maneuverability, flexible positioning with the MAXreach arm and consistently high-quality images
- Easy-to-clean design
- Intuitive and fully digital *syngo* FLC workflow, excellent wireless connectivity, virtual workstation and cybersecurity package
- Detector: 35 × 43 cm (MAX wi-D)
  24 × 30 cm (MAX mini)

Mobile DR

## Siemens Healthineers · Mobilett Impact

| Power | Width | Weight |
|---|---|---|
| Max. 32 kW | 123.0 cm (l) × 59.0 cm (w) | Approx. 275 kg |

**Highlights**
- Fully digital mobile X-ray system
- Compact system design, easy maneuverability, flexible positioning and consistent high-quality images
- Wireless connectivity, undisrupted workflow experience, intuitive and supportive user interface
- Detector:
  35 × 43 cm (Core L)
  35 × 43 cm (optional MAX wi-D)
  24 × 30 cm (optional MAX mini)

**Mobile DR**

## Stephanix · Movix 4/8 E+ DReam

| Power | Width | Weight |
|---|---|---|
| 4 / 8 kW | 78 cm | 87 kg |

**Highlights**
- Lightweight, less than 90 kg
- Design for in /outdoor operation
- Well-suited for applications at patient bedside, traumatology, paediatrics
- Foldable system easy to store and to transport on field
- Same interface as Stephanix RAD rooms, intuitive with unlimited APR
- Secondary generator control console on monoblock tube head
- Shareable solution
- Up to 125 kVp

**Mobile DR**

## Stephanix · Movix DReamy

| Power | Width | Weight |
|---|---|---|
| 20 / 32 / 40 / 50 kW | 54 cm | 520 kg |

**Highlights**
- New ultra-compact and streamlined design
- Motorized up to 5.5 km/h
- Telescopic column and arm, offering wide range of movements for easy positioning
- X-ray tube with rotating anode up to 150 kV, up to 500 mAs independent from mains, only for batteries loading
- Colour LCD touch screen 19"
- Login / identification by badge (option)
- Same interface as Stephanix RAD rooms, intuitive with unlimited APR

- Possibility to share detectors with different Stephanix modalities
- Based on sensitive technology for effortless handling

**Mobile DR**

## Stephanix · Movix Series DReam

| Power | Width | Weight |
|---|---|---|
| 20 / 32 / 40 / 50 kW | 67 cm | 580 kg |

**Highlights**
- Compact and light design
- Motorized up to 5 km/h
- Independent from mains, only for batteries loading
- Telescopic column and arm, offering wide range of movements for easy positioning
- X-ray tube with rotating anode, thin dual focal spots and high heat capacity
- Color LCD touch screen 17"
- Same interface as Stephanix RAD rooms, intuitive with unlimited APR

- Shareable solution
- kV Range: Up to 150 kVp
- mAs Range: Up to 500 mAs

**Mobile DR**

## Technix · TMB 320 / TMB 320 DR

| Power | Width | Weight |
|---|---|---|
| 32 kW | 57.6 cm | 412 kg |

**Highlights**
- Battery-motorized system very easy to maneuver
- Front bumper to avoid collision
- Exposures are possible without connecting the unit to an external power supply
- Two different versions: analogue and digital
- Compact design
- Swiveling column
- Fixed or telescopic column versions
- 19" high resolution touch screen monitor
- Full DICOM connectivity
- Wide range of post processing functions
- Multiple detectors can be interfaced


**Mobile DR**

## Technix · TMB 400 / TMB 400 DR

| Power | Width | Weight |
|---|---|---|
| 40 kW | 57.6 cm | 435 kg |

**Highlights**
- Battery-motorized unit for easy maneuvering and bedside positioning
- Freeview technology thanks to telescopic column
- Battery powered X-ray exposures
- Two different versions: analogue and digital
- X-ray Housing
- Compact design
- Fixed or telescopic column versions
- Tube-head controls for positioning adjustment
- 19" touchscreen user interface
- Full DICOM connectivity
- Multiple detectors can be interfaced


**Mobile DR**

## Technix · TMS 320 R / TMS 320 RDR

| Power | Width | Weight |
|---|---|---|
| 32 kW | 70 cm | 240 kg |

**Highlights**
- Light and maneuverable unit with small footprint
- Efficient positioning at patient's bed thanks to the rotating arm
- Available in two versions: TMS320 RDR (digital) and TMS320 R (analogue)
- Available also with fixed arm (TMS320 / TMS320 DR)
- Upgradable to DR on the field
- Multiple FPD and imaging software can be interfaced
- 19" touch user interface
- Full DICOM connectivity

Mobile DR

## Del Medical · MDR

| Power | Width | Weight |
|---|---|---|
| 40 kW | 57.6 cm | 435 kg |


**Highlights**
- Affordable all-in-one mobile digital radiography solution
- Compact design with fully collapsible column
- Fully integrated DELWORKS DR workstation with choice of detectors
- Effortless maneuverability, allowing navigation through tight spaces
- Motor assisted inching from the tube head
- On board detector charging
- Convenient storage for wireless detector, grids batteries, wipes, and lead apron
- 35 × 43 cm / 24 × 30 cm detectors
- Pixel size: 148 µm

Mobile DR

## Villa Sistemi Medicali · Visitor T30 C-DR

| Power | Width | Weight |
|---|---|---|
| 32 kW | 61.8 cm | 170 kg |

**Highlights**
- Compact and lightweight mobile DR unit
- High performance X-ray generator, tubehead with double focal spot (0.8 / 1.3 mm)
- 19" touch screen user interface
- Complete with post-processing tools and DICOM functions
- Detector size: Up to 43 × 43 cm

Mobile DR

## Villa Sistemi Medicali · Visitor T30 M-DR

| Power | Width | Weight |
|---|---|---|
| 32 kW | 57.6 cm | 412 kg |

**Highlights**
- Motorized DR mobile unit, battery powered
- Exposures are possible without connecting the unit to an external power supply
- ± 320° rotating column with telescopic arm
- Fine positioning adjustment through tube-head controls
- Frontal bumper with anti-collision function
- 19" LCD touch screen user interface
- Full DICOM connectivity
- Detector size: Up to 43 × 43 cm

Mobile DR

## Villa Sistemi Medicali · Visitor T30 R-DR

| Power | Width | Weight |
|---|---|---|
| 32 kW | 69.5 cm | 250 kg |

**Highlights**
- Mobile DR unit
- ± 90° rotating arm for flexible positioning of the unit
- High performance X-ray generator, tube-head with double focal spot (0.8 / 1.3 mm)
- 19" touch screen user interface
- Complete with post-processing tools and DICOM functions
- Detector size: Up to 43 × 43 cm

Mobile DR

## Villa Sistemi Medicali · Visitor T40 M-DR

| Power | Width | Weight |
|---|---|---|
| 40 kW | 57.6 cm | 435 kg |

**Highlights**
- Motorized DR mobile unit, battery powered
- Exposures are possible without connecting the unit to an external power supply
- Powerful 40 kW generator for high productivity and performance
- ± 320° rotating column with telescopic arm
- Fine positioning adjustment through tube-head controls
- Frontal bumper with anti-collision function
- 19" LCD touch screen user interface
- Full DICOM connectivity
- Detector size: Up to 43 × 43 cm
- Also available with telescopic column

Portable DR

## Examion · X-DR Portable

| Size | Detector type | Pixel size |
|---|---|---|
| 14 × 17" | a-Si / CsI | 100 – 150 µm |


**Highlights**

Portable case solutions for emergency X-ray. All functions for acquisition, diagnosis and archiving on a single mobile PC.

- Wireless digital X-ray
- Excellent image quality
- Patient administration with mini-PACS
- Radiological viewer
- Synchronization with stationary image archives
- Detector size: 14 × 17"
- Pixel size: 100 – 150 µm

Portable DR

## OR Technology · Leonardo DR mini II

| Size | Detector type | Pixel size |
|---|---|---|
| 14 × 17" / 12 × 10" | CsI | 100/120/139/140/154 µm |

**Highlights**

At only 8.9 kg, the Leonardo DR mini II is one of the world's lightest portable X-ray case systems.
The high-quality plastic processing and the well planned space concept form the basis for a practical case for any outdoor use. The suitcase solution is quickly ready to go and easy to use. All components are integrated in the X-ray case. The 17" laptop can easily be removed from its holder in the case and used as a tablet for presentation purposes. The notebook is equipped with the OR software.

Portable DR

## OR Technology · Leonardo DR nano

| Size | Detector type | Pixel size |
|---|---|---|
| 14 × 17" | CsI | 100 / 139 / 154 µm |

**Highlights**

Just sling the lightweight Leonardo DR nano backpack system over your shoulder and head off to your next X-ray examination!
The Leonardo consists of only two components: a wireless X-ray detector and a laptop. The system is one of the lightest portable X-ray solutions worldwide. The X-ray unit and detector have a wireless connection to the acquisition and diagnosis software on the laptop.

Portable DR

## Villa Sistemi Medicali · ArtPix EZ2GO

| Size | Detector type | Pixel size |
|---|---|---|
| 35 × 43 cm | a-Si / CsI | 148 µm |

**Highlights**

- Plug-and-play solution for immediate upgrade to digital radiography
- Lightweight and portable acquisition system based on Wi-Fi flat panel detector and tablet
- Extreme flexibility and ease of use thanks to wireless connections
- Multi-use solution for shared use with general radiographic systems and mobile units
- Powerful acquisition software complete with post-processing tools and DICOM functions

Mobile X-ray

## DRGEM · Jade

| Power | Operation | Motorized |
|---|---|---|
| 4 kW | Mains | No |

**Highlights**

- System concept: Portable radiography system
- Compact and powerful design
- Convenient and intuitive operation
- 110 ~ 240 VAC (Free voltage) input
- 40 ~ 120 kV, 10 ~ 100 mA
- Includes manual collimator
- Three-way control (Main body, control console, and remote control)
- Preprogrammed APR data and user-programmable APR
- Simple, collapsible mobile stand with external console
- USB external interface, with bluetooth or DR interface options

Mobile X-ray

## Intermedical · Compact

| Power | Width | Weight |
|---|---|---|
| 32 kW | 70 cm | 240 kg |

**Highlights**

Mobile system used for diagnosis and X-ray examinations. It allows to perform X-ray on CR or film by setting the most suitable radiological data according to the interested anatomic area

- High handiness allows an easy positioning of the unit close to any patient bed with precise movements thanks to the rotation of the column: ± 90°
- Storage of 36 exams (APR)
- Radiographic technique at two points
- Cassette holder (format 35 × 43 cm) for five cassettes
- Remote control device (optional)
- Possibility to upgrade from analogue to digital version

Mobile X-ray

## Stephanix · Movix Series

| Power | Operation | Motorized |
|---|---|---|
| 20/ 32 / 40 / 50 kW | Battery / Mains | Yes |

**Highlights**
- Cost effective solution
- Compactness ensures easy handling
- User-friendly interface with 492 customizable anatomical programmes
- Wide range of procedures
- X-ray tube with rotating anode
- Thin dual focal spots
- High heat capacity
- Short exposure time
- mAs Range: Up to 500 mAs
- kV Range: Up to 150 kV

Mobile X-ray

## Villa Sistemi Medicali · Visitor T30C

| Power | Operation | Motorized |
|---|---|---|
| 32 kW | Mains | No |

**Highlights**
- Mobile unit designed for intensive care units as well as orthopedics, pediatric or surgery departments
- Compact and lightweight design for a high maneuverability of the unit
- High performance generator and double focal spot (0.8 / 1.3 mm) tubehead
- APR anatomic mode
- User friendly control panel
- kV Range: 40 – 125 kV
- mAs Range: 0.1 – 220 mAs

Mobile X-ray

## Villa Sistemi Medicali · Visitor T30M

| Power | Operation | Motorized |
|---|---|---|
| 32 kW | Battery | Yes |

**Highlights**
- Motorized mobile unit, battery powered
- Exposures are possible without connecting the unit to an external power supply
- Compact structure and flexible positioning
- ± 320° rotating column with telescopic arm
- Fine positioning adjustment through tube-head controls
- Frontal bumper with anti-collision function
- kV Range: 40 – 125 kV
- mAs Range: 0.1 – 320 mAs

Mobile X-ray

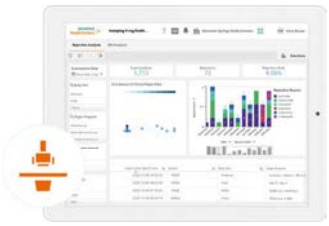
## Villa Sistemi Medicali · Visitor T30R

| Power | Operation | Motorized |
|---|---|---|
| 32 kW | Mains | No |

**Highlights**
- Mobile unit designed for intensive care units as well as orthopedics, pediatric or surgery departments
- Compact design for a high maneuverability of the unit
- ± 90° arm rotation for increased flexibility of X-ray tube positioning
- APR anatomic mode
- User friendly control panel
- High performance generator and double focal spot (0.8 / 1.3 mm) tubehead
- kV Range: 40 – 125 kV
- mAs Range: 0.1 – 220 mAs

Business Intelligence

## Siemens Healthineers · teamplay X-ray Dashboard



**Highlights**

teamplay X-ray Dashboard* brings transparency to image rejections and EXI (Exposure Index) of your radiography examinations, helping you to increase quality of X-ray imaging and the operational efficiency of your fleet.
- Track and document your institution's rejection rate for quality control and regulatory requirements
- Conduct in-depth rejection analysis on various levels, ranging from reject reasons to clinical protocols
- Monitor under- or overexposure of X-ray images with Exposure Index (EXI) and Deviation Index (DI)

** teamplay is not commercially available in all countries. If the services are not marketed in countries due to regulatory or other reasons, the service offering cannot be guaranteed.*

Accessories / Complementary Systems

## Canon Electron Tubes & Devices · XRR-3332X

**Highlights**

- 3 inch ROTANODE X-ray tube assembly for Mobile systems
- 20 percent smaller size / 22 percent lighter weight housing than previous model
- High power input: 46 kW / 20 kW (0.1 s)
- XRR-3332X is useful for designing smaller and excellent mobile system.
- Adopt large capacity anode target to support multipurpose diagnostic application
- Size: 1.2 / 0.6
- Power: 46 kW / 20 kW
- Capacity: 300 kHU (anode heat content) 870 W (anode heat dissipation)

Accessories / Complementary Systems

## Canon Electron Tubes & Devices · XRR-4631G

**Highlights**

- 4 inch ROTANODE X-ray tube assembly for DR systems
- 20 percent smaller housing than previous model
- Can be used as a replacement part for similar models
- High power input: 100 kW / 40 kW (0.1 s)
- High cooling rate provided by housing
- Size: 1.2 / 0.6 (Focal Spot)
- Capacity: 400 kHU (anode heat content) 1200 W (anode heat dissipation)

Accessories / Complementary Systems

## Canon Electron Tubes & Devices · XRR-6653X

**Highlights**

- 4" ROTANODE X-ray tube assembly for DR systems
- 20 percent smaller housing than previous model
- Can be used as a replacement part for similar models
- Size: 0.8 / 0.3 (focal spot)
- Power: 52 kW / 12 kW (input power)
- Capacity: 600 kHU (anode heat content) 1670 W (anode heat dissipation)
- High throughput (500 W continuous anode input power)
- High resolution image with small focal spot size

Accessories / Complementary Systems

## DRGEM · GXR Series – X-Ray Generator

| Standard | Capacitor | UPS |
|---|---|---|
| 32 / 40 / 52 / 68 / 82 kW | 32 / 40 / 52 kW | 32 / 40 kW |

**Highlights**

- High-frequency generator, perfect for general radiography
- Excellent reproducibility, accuracy, and linearity
- Smaller, lighter modular design
- 1.280 APR conditions with APR utility software
- Tube overloading and housing overheating protection
- Real-time monitoring and self-diagnosis
- Remote diagnosis and automatic calibration
- Adaptive calibration for long-term usage
- Capacitor type: compatible with standard wall outlet

- UPS type: 800 W, free-voltage (100 ~ 240 VAC) line power
- UPS Type: operation time of up to 12 hours and 3.500 X-ray shots during a power failure

Accessories / Complementary Systems

## DRGEM · Mobile DR Imaging System for Chest and Chiropractic

| Power | Detector type |
|---|---|
| C32 / C40 / C52 kW, U32 / U40 kW | CsI |

**Highlights**

- System concept: compact radiography system for mobile RAD room
- Mobile imaging radiography system
- Motorized vertical synchronization with wall stand
- Image stitching for whole body
- Auto numbering function with barcode scanner available
- UPS or capacitor generator is recommended
- Optional AI software available
- Detector type: CsI, 17 × 17" / 17 × 14", wired /wireless

Accessories / Complementary Systems

## Examion · X-Emergency


**Highlights**

Customized container for digital X-ray.

- U-Arm or Z-Arm design. Z-Arm allows lateral exposures on lying patients
- Low maintenance effort
- Excellent image quality
- Patient administration
- Mini-PACS or connection to central archives
- Radiological viewer
- Power: 50 kW
- System concept: Wireless or wired
- Detector size: 14 × 17" / 17 × 17"
- Pixel size: 100 – 175 µm

Accessories / Complementary Systems

## I.A.E. · C20

**Highlights**

- A new compact lightweight housing, specifically designed for mobile equipment.
- A low weight, less than 8.5 kg, combined with compact dimensions, 116 mm diameter and 342 mm length, allows significant reductions in the equipment supporting structures.
- A range of tube inserts up to 54 kW peak radiographic power at high rotation speed is available for this unit.

Accessories / Complementary Systems

## I.A.E. · C31-RTM 72

| | |
|---|---|
| Size | 0.6 / 1.2 |
| Power | 30 kW / 75 kW |
| Capacity | 300 kHU (Anode heat capacity)<br>500 W (Anode heat dissipation) |

**Highlights**

- Rotating anode X-ray tube unit for mobile x-ray equipment with film and digital detectors
- Lead lined aluminium body
- H.T. cable sockets: type MINI75 4 pin
- Storage and shipment temperature range –10°C / +80° C
- Optional mounting plate for tilting brackets

Accessories / Complementary Systems

## I.A.E. · RTC 600

**Highlights**

- Rotating anode graphite X-ray tube, specifically designed for remote controlled table and digital systems
- Enhanced anode heat dissipation, provided by high emittance coating and target design
- Severe tests during conditioning assure reliable performances
- High anode heat storage for repeated loading
- Ground glass window for consistent HVL
- Variety of housings allows flexible systems configurations

Accessories / Complementary Systems

## IMD Generators · Monobloc X-ray Generator

**Highlights**

- Single tank X-ray Generator all alluminium cased
- Suitable for Fluoroscopy Pulse and Rad working mode
- Power range from 3.5 kW up to 40 kW
- kV range from 40 up to 125kV
- Stationary and Rotating Anode Tube
- Customised product according to customer' technical requirements

Accessories / Complementary Systems

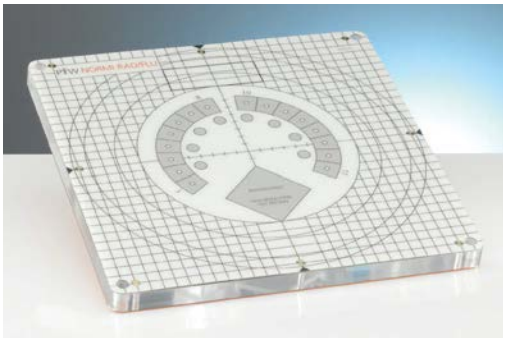
## PTW · Diamentor RS-KDK and C-RS DAP Systems


**Highlights**

- Integrated DAP chamber and electronics housing (Diamentor RS-KDK)
- Automatic air density correction
- Wireless data transfer with optional Diamentor BT interface
- Simultaneous measurements of DAP and dose units as well as of the exposure time (Diamentor RS-KDK)
- Optional RS-D display unit
- Available with RS232 or RS485 interface

Accessories / Complementary Systems

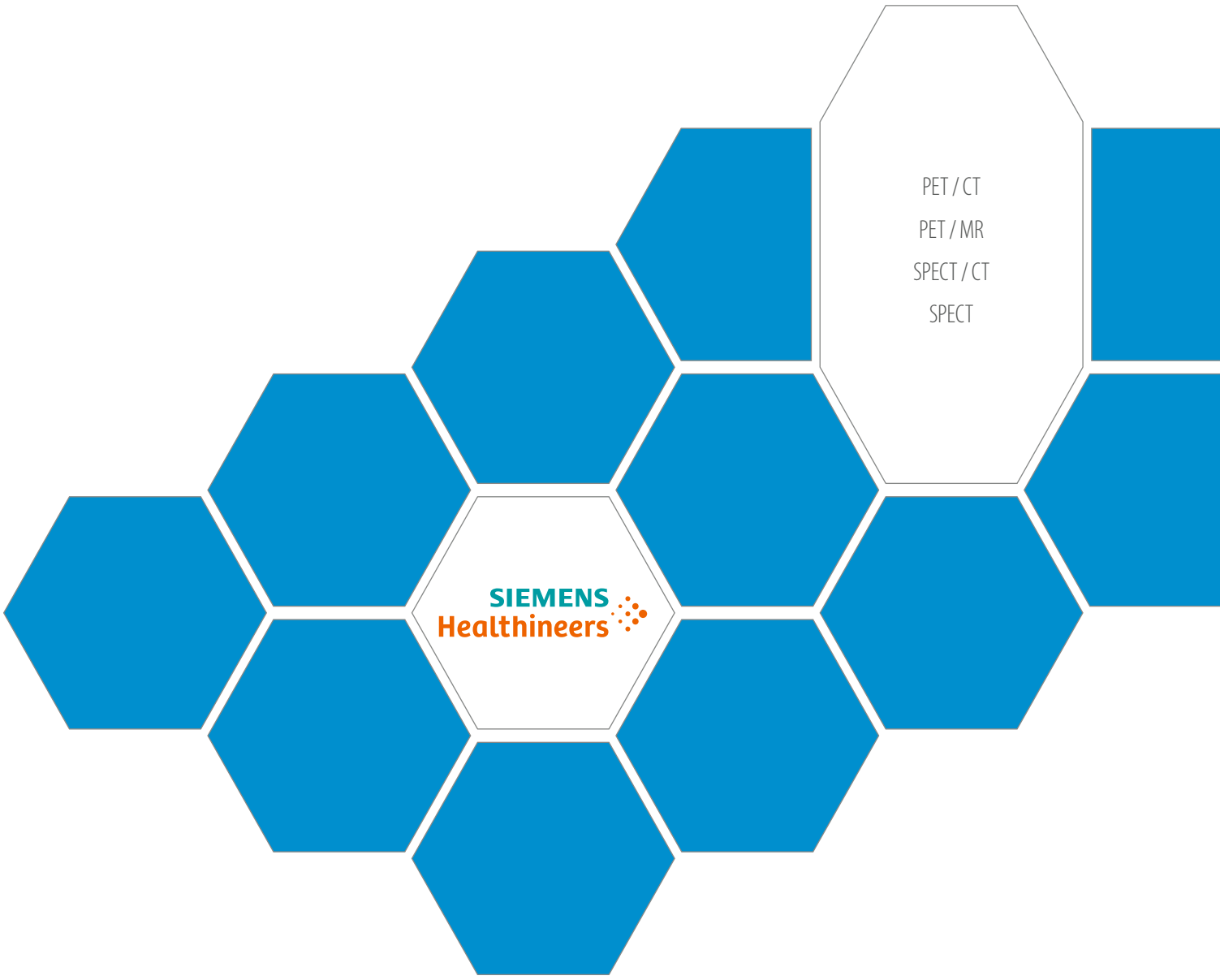
## PTW · Normi RAD / FLU – X-Ray Test Object



**Highlights**

- Checks all relevant parameters of analogue and digital fluoroscopic and radiographic X-ray units
- Suitable for routine quality checks on over/under couch tubes and C arms
- Includes an attenuation plate for patient simulation
- Complies with DIN 6868-4 and 6868-150
- Available with the outer format of 300×300 mm or 200×200 mm

# Molecular Imaging



PET/CT

## Siemens Healthineers · Biograph Horizon

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| – | 12% FWHM | Up to 221 mm |

**Highlights**

- Exclusive bed design with zero differential deflection between PET and CT
- Spatial resolution (NEMA): 4.2 mm
- 4 mm LSO crystals
- Time of flight
- 16- or 32-slice CT

PET/CT

## Siemens Healthineers · Biograph mCT

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| – | 12% FWHM | Up to 221 mm |

**Highlights**

- Exclusive bed design with zero differential deflection between PET and CT
- Gantry opening: 78 cm
- Spatial resolution (NEMA): 4.2 mm
- 4 mm LSO crystals
- Time of flight
- 40-, 64- or 128-slice CT

PET/CT

## Siemens Healthineers · Biograph Vision*

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| – | – | Up to 263 mm (axial) |

**Highlights**

- Gantry opening: 78 cm
- Volumetric resolution: 51 mm³
- 3.2 mm LSO crystals
- Fast time of flight at 214 ps**
- High effective sensitivity at 100 cps/kBq**
- 100 percent sensor coverage

** Biograph Vision is not commercially available in all countries. Its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.*

*** Based on internal measurements (resolution and time of flight) for Biograph Vision 600. Data on file.*

PET/CT

## Siemens Healthineers · Biograph Vision Quadra*

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| – | – | 106 cm (axial) |

**Highlights**

- 4 × axial PET field of view**
- 106 cm axial PET field of view
- 3.2 mm LSO crystals
- 100 percent sensor coverage
- Fast time of flight at 228 ps**
- Highest effective sensitivity of 1,000 cps/kBq***
- Designed to fit in the room size of traditional PET/CT scanners

** Biograph Vision Quadra is not commercially available in all countries. Its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details.*

*** Compared to the Biograph Vision 600 PET/CT*

**** Compared to current state-of-the-art technologies. Measured value based on phantom studies performed on a single system. Acceptance value of ≥ 803 cps / kBq. Data on file.*

PET/MR

## Siemens Healthineers · Biograph mMR

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 45 mT / m[1] | 200 T / m / s[1] | Up to 102 × 32 |

[1] *Maximum gradient amplitude and slewrate can be applied simultaneously*

**Highlights**

- Largest customer base of installed PET/MR systems worldwide
- State-of-the-art 3T MRI with 2nd order shim
- Comprehensive set of surface coils available for full range of MR-only exams
- Not only simultaneous, but synergistic PET/MR: MR-based motion compensation of PET images
- Whole-body MR-based PET attenuation correction including major bones
- Up to 10 bed positions with PET/MR
- Available with *syngo* MR E11 software

SPECT/CT

## Siemens Healthineers · Symbia Intevo

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm/µCil | – | 533 × 387 mm |

**Highlights**

- Higher image resolution enables physicians to distinguish between degenerative disease and cancer
- The first and only system offering accurate and reproducible SPECT quantification
- Up to 68 percent lower CT dose[1] with CARE Dose4D and up to 75% lower injected dose[1] with IQ•SPECT to reduce patient radiation risk
- Productivity tools and IQ•SPECT save time and can double patient throughput

[1] *Based on competitive literature available at time of publication. Data on file.*

SPECT/CT

## Siemens Healthineers · Symbia Intevo Bold

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm/µCi | – | 533 x 387 mm |

**Highlights**

- iMAR – Interative Metal Artifact Reduction – reveals more details by reducing metal artifacts. iMAR lets you overcome the effects of metal artifacts in challenging exams
- SAFIRE – Sinogram Affirmed Iterative Reconstruction – reduces radiation dose while maintaining image quality
- IVR – Interleaved Volume Reconstruction – reconstructs up to 32 slices to evaluate small structures
- Dual Energy Scan improves image quality with two sequential spiral scans at different energies

SPECT/CT

## Siemens Healthineers · Symbia Intevo Excel

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm / µCi | – | 533 × 387 mm |

**Highlights**

- SPECT with integrated CT for attenuation correction and anatomical localization
- Flash 3D enables up to 45 percent higher reconstructed resolution[1] than conventional SPECT 3D iterative reconstruction
- Largest CT field-of-view[1] enables physicians to more accurately localize lesions
- IQ•SPECT enables up to 75 percent lower injected dose or shorter imaging time,[1] increasing patient comfort and satisfaction

[1] *Based on competitive literature available at time of publication. Data on file.*

SPECT/CT

## Siemens Healthineers · Symbia Pro.specta

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm / µCil | – | 533 x 387 mm |

**Highlights**

- Automated SPECT motion correction for more clarity
- Stellar detector technology for improved spatial resolution
- Up to 60% patient dose reduction with CT iterative reconstruction[1]
- Tin Filter for ultra-low patient and room dose
- Quantitative options at every energy level for standardization and comparability
- High-energy capabilities support theranostic readiness

[1] *In clinical practice, the use of SAFIRE (Sinogram Affirmed Iterative Reconstruction) may reduce CT patient dose depending on the clinical task, patient size, anatomical location, and clinical practice. Consult with a radiologist and a physicist to determine the appropriate dose to obtain diagnostic image quality for the particular clinical task.*

SPECT

## Siemens Healthineers · Symbia Evo

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm/µCi | – | 533 × 387 mm |

**Highlights**

- Save up to 50 %[1] more time and potentially double patient throughput with automated quality control and collimator exchange, as well as ultra-fast cardiac imaging
- Image every patient[2] and improve comfort with a larger bore; a high-capacity, low-height patient bed; and hospital bed imaging capabilities
- Industry-leading image quality[1] delivers accurate and reproducible clinical information to support diagnostic confidence

[1] *Based on competitive literature available at time of publication. Data on file.* [2] *Patients up to 227 kg (500 lb).*

SPECT

## Siemens Healthineers · Symbia Evo Excel

| System sensitivity | Energy resolution (NEMA) | Field of view |
|---|---|---|
| 202 cpm/µCi | – | 533 × 387 mm |

**Highlights**

- Smallest room size in its class,[1] reducing costs associated with room remodeling and expansion
- Ability to image every patient[2] and improve comfort with a larger bore; a high-capacity, low-height patient bed; and hospital bed imaging capabilities
- Industry-leading image quality[1] delivers accurate and reproducible clinical information to support diagnostic confidence

[1] *Based on competitive literature available at time of publication. Data on file.* [2] *Patients up to 227 kg (500 lb).*

# Displays / Printers

Displays – Mammo

Displays – Color

Displays – Grayscale

DVD Import

DVD Burner

Printers

### Displays – Mammo

**JVC · CL-S1200**

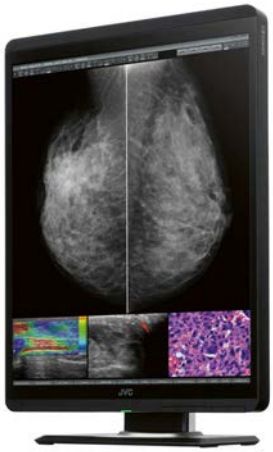
| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 30.9" | 4,200 × 2,800 | 1,200 cd / m² |

**Highlights**
- Panel technology: IPS
- 2,000 : 1 contrast ratio
- Auto Text Mode
- Dynamic Gamma
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface

### Displays – Mammo

**JVC · CL-S500**

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 2,048 × 2,560 | 1,150 cd / m² |

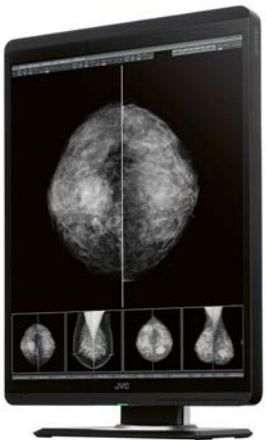


**Highlights**
- Panel technology: IPS
- 2,000 : 1 contrast ratio
- Auto Text Mode
- Dynamic Gamma
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface

### Displays – Mammo

**JVC · MS-S500**

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 2,048 × 2,560 / 2,048 × 7,680 | 3,000 cd / m² |

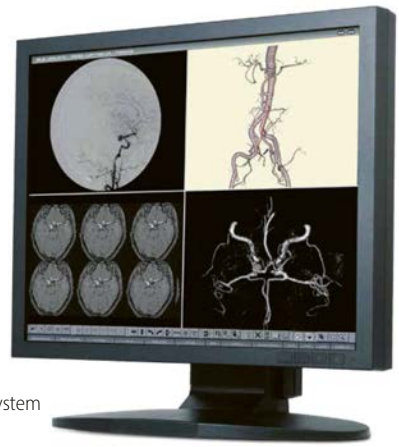


**Highlights**
- LED Backlight
- 2,000 : 1 contrast ratio
- True 11-bit grayscale
- ISD Support
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface

### Displays – Color

**JVC · CCL196**

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 19" | 1,280 × 1,024 | 800 cd / m² |



**Highlights**
- Panel technology: IPS
- 1000 : 1 contrast ratio
- Video and DVI interface
- Brightness stabilization system
- Remote management
- Integrated power supply

### Displays – Color

**JVC · CL-R211**

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 1,600 × 1,200 | 500 cd / m² |

**Highlights**
- Panel technology: IPS
- 1,800 : 1 contrast ratio
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface
- Optional AR coating
- Auto Text mode and Dynamic Gamma

### Displays – Color

**JVC · CL-S200**

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 1,600 × 1,200 | 1,000 cd / m² |

**Highlights**
- Panel technology: IPS
- 1,200 : 1 contrast ratio
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface
- Optional AR coating
- Auto Text mode and Dynamic Gamma

### Displays – Color

## JVC · CL-S300

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 2,048 × 1,536 | 1,000 cd / m² |

**Highlights**
- Panel technology: IPS
- 1,500 : 1 contrast ratio
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface
- Optional AR coating
- Auto Text mode and Dynamic Gamma

### Displays – Color

## JVC · CL-S600

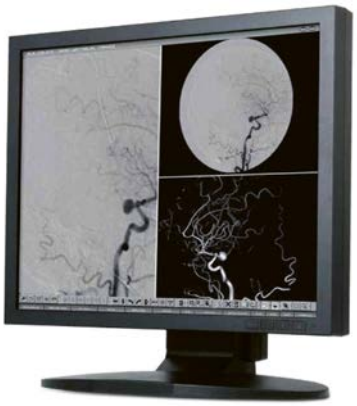
| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 30" | 3,280 × 2,080 (6 MP) | 1,300 cd / m² |

**Highlights**
- Panel technology: IPS
- 2,000 : 1 contrast ratio
- Brightness stabilization system
- Remote management
- Integrated power supply
- Dual DVI / DisplayPort Input
- Auto Text mode and Dynamic Gamma

### Displays – Grayscale

## JVC · ME195

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 19.1" | 1,280 × 1,024 | 1,400 cd / m² |

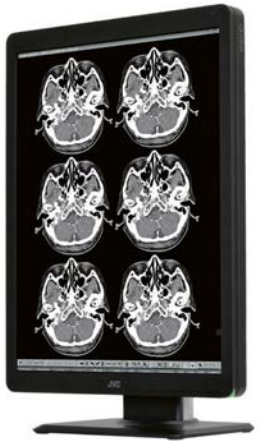


**Highlights**
- Panel technology: IPS
- 1,000 : 1 contrast ratio
- Brightness stabilization
- DVI and Video input to connect modality systems

### Displays – Grayscale

## JVC · MS-S200

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 1,600 × 1,200 / 4,800 × 1,200 | 1,900 cd / m² |



**Highlights**
- Panel Technology: IPS
- 1,800 : 1 contrast ratio
- True 11-bit grayscale
- ISD Support
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface
- LED Backlight

### Displays – Grayscale

## JVC · MS-S300

| Panel size | Resolution | Max. Luminance |
|---|---|---|
| 21.3" | 1,536 × 2,048 / 1,536 × 6,144 | 3,000 cd / m² |

**Highlights**
- Panel technology: IPS
- 2,000 : 1 contrast ratio
- True 11-bit grayscale
- ISD Support
- Front and ambient light sensor
- Remote management and calibration
- Integrated power supply
- DVI and DisplayPort interface
- LED Backlight

### DVD Import

## Nexus / Chili · Import Robot

**Highlights**
- Automatic import robot
- Import of patient CD / DVD
- 2, 5 or 10 drives
- 2 import trays (regular / express)
- 2 output trays (ok, failed)
- Optional virus scan
- Correction of foreign data
- Automatic DICOM transfer
- Works with any PACS

**DVD Burner**

## Nexus / Chili · Burn Gateway

**Highlights**
- Receives data by DICOM C-Store
- Burns data on one or more CD / DVDs
- Optional reports
- Individual label printing
- Client enabled (different logos)
- CHILI viewer in report quality
- Alternative presentation as HTML and JPEG
- Certified by OFFIS and DRG
- Works with any PACS
- External output tray

**Printers**

## Konica Minolta · DryPro 873

| Technology | Capacity | Resolution |
|---|---|---|
| Laser | 180 films / h | 530 dpi |

**Highlights**
- Fully DICOM compatible
- Ready for up to three film trays
- Optional sorter available
- Fast multi-modality printer for optimal performance
- Matrix size 78.6 µm / 43.75 µm
- Processing capacity 180 sheets per hour (mixed size / at ordinary modality)

**Printers**

## Konica Minolta · DryPro Sigma I

| Technology | Capacity | Resolution |
|---|---|---|
| Laser | 90 films / h | 78 µm |

**Highlights**
- Single tray
- Support of four film sizes
- Easy film loading process

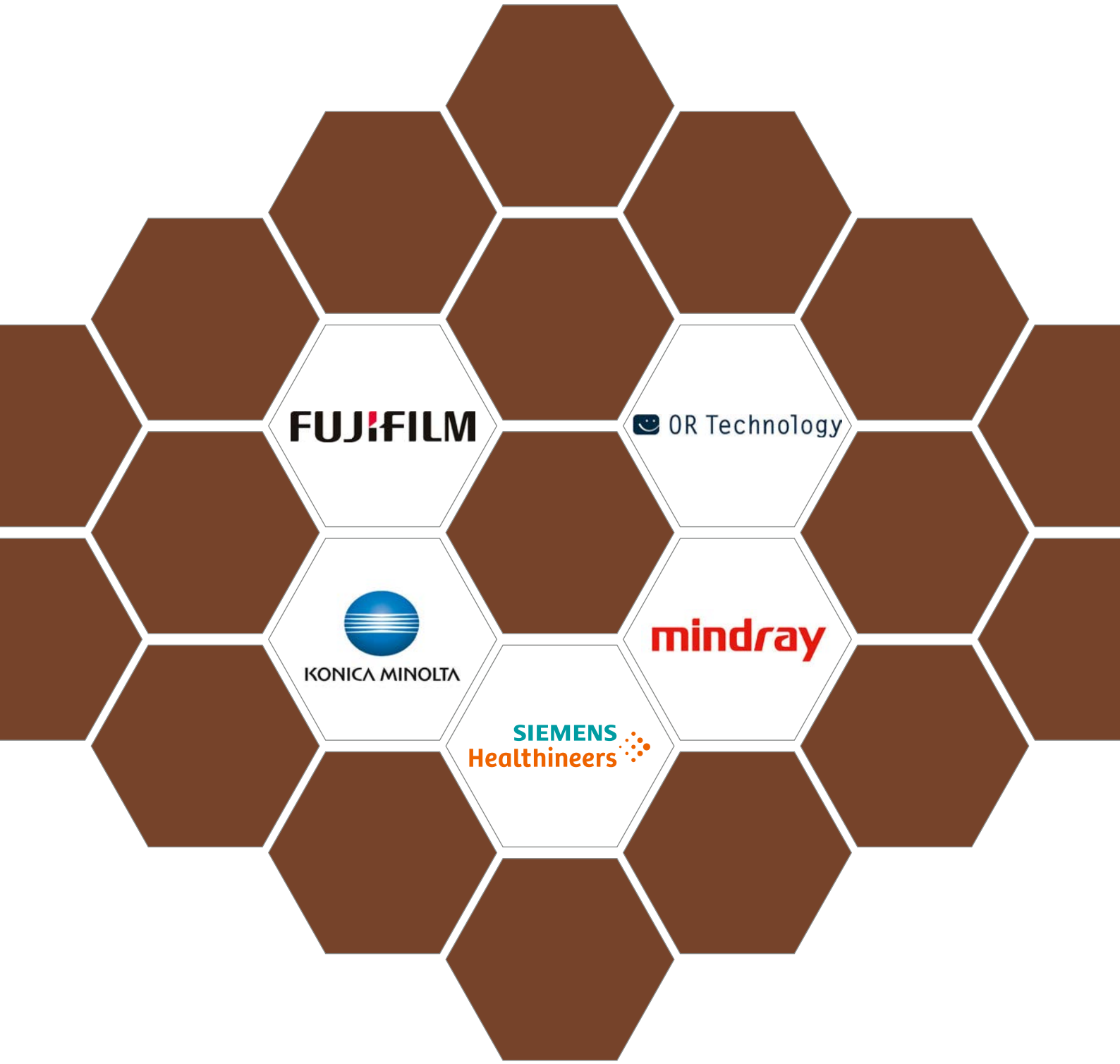
**Printers**

## Konica Minolta · DryPro Sigma II

| Technology | Capacity | Resolution |
|---|---|---|
| Laser | 110 films / h | 508 dpi |

**Highlights**
- Compact laser imager
- Fastest time for first film print out (50 s)
- Ready for up to two film trays
- Support of five different film sizes

# Ultrasound


FUJIFILM
OR Technology
KONICA MINOLTA
mindray
SIEMENS
Healthineers

Ultrasound

## Fujifilm · Arietta 65

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 18 MHz | B – DP – Color – 3D / 4D | 21.5" LCD |

**Highlights**

- Compact multi-disciplinary platform with comfortable workflow, high definition imaging and useful application from premium platform
- Unique image processing technology underpin outstanding image quality
- Automated process features: Protocol Assistant, Auto-Optimizer, Auto Measurement
- Wide range of transducers for all applications
- Advanced modalities & analysis: SWM, ATT, 3D/4D Dual gate Doppler, Strain Elastography, CEUS, 2DTT...

Ultrasound

## Fujifilm · Arietta 650 DeepInsight

| Display mode | Display size | Monitor size |
|---|---|---|
| B – DP – Color - 3D / 4D | 22" OLED or 21.5" LCD | 22" OLED or 21.5" LCD |

**Highlights**

- Compact AI-powered diagnostic platform, ergonomic design
- DeepInsight technology: proprietary Artificial Intelligence deep learning know-how
- Wide range of transducers for all applications
- Comprehensive diagnoses of hepatic diseases
- Useful tools to help diagnose breast cancer
- Seamless workflow: Protocol assistant, Auto Measurements

Ultrasound

## Fujifilm · Arietta 750 DeepInsight

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 18 Mhz | B – DP – Color – 3D / 4D | 22" OLED |

**Highlights**

- New AI-powered diagnostic multi-disciplinary platform, ergonomic design
- DeepInsight technology: proprietary Artificial Intelligence deep learning know-how
- Wide range of transducers for all applications
- Comprehensive diagnoses of hepatic diseases
- Advanced application with fusion imaging to support procedure guidance and treatment evaluation
- Useful tools to help diagnose breast cancer
- Seamless workflow: Protocol assistant, Auto Measurements

Ultrasound

## Fujifilm · Arietta 850 DeepInsight

| Frequency range | Display mode | Detector size |
|---|---|---|
| 1 – 22 MHz | B – DP – Color – 3D / 4D | 22" OLED |

**Highlights**

- Multi-disciplinary Premium platform, ergonomic design
- DeepInsight technology: proprietary Artificial Intelligence deep learning know-how
- Wide range of transducers for all applications
- Comprehensive diagnoses of hepatic diseases
- Advanced application with fusion imaging to support procedure guidance and treatment evaluation
- Useful tools to help diagnose breast cancer
- Seamless workflow: Protocol assistant, Auto Measurements

Ultrasound

## Konica Minolta · Sonimage HS2

| Frequency range | Display mode | Display size |
|---|---|---|
| Up to 18 MHz | B, M, Color, Power, SCF, PWD, CWD | 15" |

**Highlights**

- Premium portable ultrasound
- Real 18 MHz imaging
- 3 THI – Triad Tissue Harmonic Imaging
- iXRet-technology
- Sonimage UI concept
- SNV Technology – Simple Needle Visualization
- Startup from standby in 15 sec
- Excellent solution for radiology and MSK specialists, rheumatologists, anesthesiologists and intensivists, vascular specialists

Ultrasound

## Konica Minolta · Sonimage MX1

| Frequency range | Display mode | Display size |
|---|---|---|
| Up to 14 MHz | 2D (BW / color) and TAM | 12.1" |

**Highlights**

- Real point-of-care ultrasound
- Dual sonic technology
- iXRet-technology
- Sonimage UI concept
- One-touch image optimization for quick operation
- SNV technology – Simple Needle Visualization
- Up to 2H operation
- Weight: 4.5 kg (incl. battery)
- Tailored solution for MSK specialists, rheumatologists, anesthesiologists and intensivists, vascular specialists

Ultrasound

## Mindray Medical · Consona N Serie

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 Mhz | 3D / 4D | 21.5" – 23.8" |

**Highlights**

A New era of Primary Care Ultrasound

- Powered by ZST+ Premium technology
- New ultrasound workhorse system
- Fully loaded with high efficiency applications and performance at value Price
- Outstanding GI/ Shared Service, OB and also CV images
- Single Crystal + combo wave phased array transducer
- Smart tools such as 3D/4D Smart Scene 3D and Smart OB
- Advanced Applications, like UWN+ CEUS and Smart Thyroid/Breast analysis with Best in class shear wave STE Elastograpgy
- Large touch screen (13.3" to 15.6") & Full HD monitor (21.5" to 23.8"), with 3 to 5 active sockets

Ultrasound

## Mindray Medical · DC-70 Exp with X-Insight

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 MHz | 3D / 4D | 13.3" / 21.5" / 23.8" |

**Highlights**

- Top in class 3D/4D with single crystal volume and Hyaline
- Best in class ABD image in both penetration and resolution
- Most intelligent Smart Planes CNS and Smart Face
- Largest Full HD monitor (21.5" / 23.8") and ultra-slim touch screen (13.3")

Ultrasound

## Mindray Medical · DC-80A with X-Insight

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 MHz | 3D / 4D | 23.8" |

**Highlights**

- Superb 3D / 4D with single crystal volume and Hyaline
- Outstanding ABD image in both penetration and resolution
- Most intelligent Smart Planes CNS and Smart Face
- Large touch screen (13.3") & Full HD monitor (23.8"), five active sockets
- Best in class shear wave (STE & STQ)
- Built-in battery for continuous scanning

Ultrasound

## Mindray Medical · M9

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 16 MHz | 3D / 4D | 15" |

**Highlights**

- Advanced premium level laptop style color Doppler offering easy handling and mobility
- Rich in technology such as 3T transducer with single crystal and high dynamic range flow
- Ideal shared-service solution suitable to be used within muptiple clinical settings
- Intelligent workflow with iTouch (one key image optimisation)
- User-defined operation to improve work efficiency

Ultrasound

## Mindray Medical · ME8

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 MHz | 3D | 15.6" |

**Highlights**

- 15.6" IPS monitor, 12.3" IPS touch screen
- ZST+ platform
- Magnetic power socket
- Contract Imaging
- Elastography Imaging
- Stress Echo
- Smart Fluid Management Solution
- E-Spatial Navi

Ultrasound

## Mindray Medical · MX7

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 MHz | 3D / 4D | 15.6" |

**Highlights**

- 15.6" IPS monitor, 12.3" IPS touch screen
- Cutting-edge ZST+ platform
- Eight hours continuous scanning
- Magnetic power socket
- Contrast imaging
- Elastography imaging
- Stress echo
- TDI and QA
- LVO
- iNeedle+

Ultrasound

## Mindray Medical · Resona I9

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 20 MHz | 3D / 4D | 23.8" |

**Highlights**
- ZST⁺ platform
- Full-space floating control panel
- iConsole intelligent control panel
- High frame rate STE
- Smart Thyroid
- Smart Breast

Ultrasound

## Mindray Medical · Resona R9 Platinum Edition

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 23 MHz | 3D / 4D | 23.8" |

**Highlights**
- Advanced ZST⁺ platform
- A new standard of image clarity for different clinical scenarios
- More advanced tools for confident diagnosis and clinical research: HiFR CEUS, High frame rate STE, uHIT, iFusion, V Flow, UMA
- Intelligent tools with more efficiency and accuracy: Smart Breast and Smart HR
- Multi-parametric assessment solution brings more clinical advantages

Discover and Experience Resona R9 at ECR 2023!

Ultrasound

## Mindray Medical · TE Air

| Frequency range | Display mode | Display size |
|---|---|---|
| - | - | - |

**Highlights**

Wireless transducer anywhere, anytime
- Small and light weighted for confortable control
- IP68 waterproof level, easy to disinfect
- Fast charing capability
- All-day battery design with charing case supporting up to 8-hours daily work

Ultrasound

## Mindray Medical · TE7

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 16 MHz | 3D | 15" |

**Highlights**
- Touch enabled repsonse providing simple control and setting optimization
- Touch-screen gestures such as pinch to zoom in or out
- Three second boot up from standby and swift touch response of settings
- Equipped with efficiency-boosting features eSpacial Navi, iNeedle⁺, AutoEF, iZoom, iTouch and Smart Track
- Easy to transport and store, can be mounted on trolley, desktop table or wall

Ultrasound

## Mindray Medical · TE9

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 23 Mhz | 3D | 21.5" |

**Highlights**
- An exceptional design for an extraordinary experience with its 21.5" full touch screen large image and high definition display for more
- information with the 38% Smart iZoom larger view
- Quick and clear diagnoses, equipped with efficiency-boosting features eSpacial Navi, iNeedle+, AutoEF, iZoom, iTouch and Smart Track,
- Smart VTI, Smart B-Line, SMart IVC and brand new Smart FHR OB1 and Auto GA applications
- Efficient workflow with three second boot up from standby and swift touch response of settings
- Easy to transport and store, can be mounted on narrow footprint trolley, desktop table or a wall

Ultrasound

## Mindray Medical · TEX20

| Frequency range | Display mode | Display size |
|---|---|---|
| 60 Hz | 2D | 23.8" |

**Highlights**

Point of Care, Reimagined
- Highend clinical performance powered by ZST+ and single crystal premium technology
- Innovative and Intuitive design in tough POC enviroment with its tilt, height and rotation adjustable monitor, 5 connectors (4+1 wireless), external battery level check on monitor, wireless charger, cable management
- Largest touch screen monitor in POCUS
- Provide best care under pressure with fully integrated fearues X-Link, Real Time Monitoring, Documented
- Efficient and accurate diagnoses with Smart Tools, Auto View, X-Pilot
- Versatility – 3 in 1 universal POC ultrasound solution for regular scanning, challenging resuscitation and emergency situation with TE Air

Ultrasound

## OR Technology · Clarius Ultrasound Scanner

| Frequency range | | |
|---|---|---|
| 5–15 MHz | | |

**Highlights**

The new wireless ultrasound scanner in handheld formatis a true multi-functional talent. It impresses with its compact design and delivers excellent images. The low weight and optimised design make the new model more ergonomic and easy to use. Up to 60 minutes of battery life allow you to work wherever you are, whether in an emergency or at the patient's home. The powerful sonography scanner offers you easy wireless image transmission at distances of up to 40 metres.

Ultrasound

## Siemens Healthineers · Acuson Freestyle Elite Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 2 – 15 MHz | 2D | 15" |

**Highlights**

- With cable-free technology to offer unrestricted access to practitioners at the point of care, allowing quicker turnaround time
- Enhanced needle visualization and Pixelformer image processing architecture on an expanded image display may improve procedural confidence in interventional settings
- Automatically populate patient registration data between systems with Artis Patient Synchronization using Artis Access

Ultrasound

## Siemens Healthineers · Acuson Freestyle Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 2 – 15 MHz | 2D | 15" |

**Highlights**

- With cable-free technology to offer unrestricted access to practitioners at the point of care, allowing quicker turnaround time
- Enhanced needle visualization and Pixelformer image processing architecture on an expanded image display improve procedural confidence in interventional settings
- Empowered workflow with zero cable-drag and single-user operation via integrated scanning controls

Ultrasound

## Siemens Healthineers · Acuson Juniper Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1.1 – 18 MHz | 2D / 3D / 4D | 13.3" / 21.5" |

**Highlights**

- High-performance, shared-service system for virtually every patient with one of the industry's smallest footprint
- Five active transducer ports and one CW port support 196 transducers for a wide variety of capabilities – from radiology, interventional radiology, cardiology, urology to orthopedics and OB / GYN
- High-fidelity acoustic signals greatly reduce noise and offer premium image quality with industry-leading elasticity solutions

Ultrasound

## Siemens Healthineers · Acuson NX2 Elite Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 2 – 10 MHz | 2D | 21.5" |


**Highlights**

- Provides premium imaging performance using a cost-efficient, ten-transducer set to perform a wide range of exam types at a sustainable value
- Intuitive control panel design combined with up to four front-facing transducer ports optimize workflow efficiency
- Large 21.5" 1,080 p HD display; Twice the pixel density
- Migrated optional advanced clinical applications such as DTI, eSie Touch elasticity & advanced foursight technology

Ultrasound

## Siemens Healthineers · Acuson NX2 Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 2 – 10 MHz | 2D | 21.5" |


**Highlights**

- Provides premium imaging performance using a cost-efficient, eight-transducer set to perform a wide range of exam types at a sustainable value
- Intuitive control panel design combined with up to four front-facing transducer ports optimize workflow efficiency
- Large 21.5" 1,080 p HD display; Twice the pixel density
- Simplified control panel designed to enable operator efficiency and speed-up completion of essential tasks

Ultrasound

## Siemens Healthineers · Acuson NX3 Elite Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1.3 – 16 MHz | 2D / 3D / 4D | 10.4" / 21.5" |


**Highlights**

- Powerful platform driven by efficiency and built for performance.
- Intuitive user interface with up to 28 percent fewer keystrokes and 3 x more user-defined keys
- 21.5" HD display and 220° endo-cavity transducer provides expanded field of view
- 10.4-inch touch display with swipe motion
- Transducer compatibility with existing and legacy Siemens Healthineers systems

Ultrasound

## Siemens Healthineers · Acuson NX3 Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1.3 – 12 MHz | 2D / 3D / 4D | 10.4" / 21.5" |


**Highlights**

- Powerful platform driven by efficiency and built for performance
- Intuitive user interface with up to 28 percent fewer keystrokes and 3 x more user-defined keys
- 21.5" HD display provides expanded field of view
- 10.4-inch touch display with swipe motion
- Transducer compatibility with existing and legacy Siemens Healthineers systems

Ultrasound

## Siemens Healthineers · Acuson P500 Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1.3 – 16 MHz | 2D | 15.4" |

**Highlights**

- Innovative technologies that automatically detect and prevent motion artifacts, reduce noise, and simultaneously enhance color
- 15" infrared touch screen improves gesturing accuracy
- Increase patient throughput with mobile quick scanning and boot-up times of less than 30 seconds
- The new IntraCardiac Echocardiography (ICE) Edition integrates the imaging capabilities of the Acuson AcuNav catheters providing real-time visualization of cardiac anatomy within the heart

Ultrasound

## Siemens Healthineers · Acuson Redwood Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 18 MHz | 2D / 3D / 4D | 13.3" / 21.5" |


**Highlights**

Offering detailed image quality, advanced applications and efficient workflow, Acuson Redwood provides an ultrasound solution that is redefined.

- Detailed: See deeper and clearer with the latest InTune transducer family
- Advanced: Tailored advanced applications that improve patient outcomes
- Efficient: Small, portable and AI-powered measurement tools for intuitive workflow

Ultrasound

## Siemens Healthineers · Acuson SC2000 Prime Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1.25 – 10 MHz | 2D / 3D / 4D | 21.5" |

**Highlights**

- The complete structural heart disease solution as the only system to offer 2D and 4D TTE, TEE, and ICE and TrueFusion on one system
- Speed and precision for the echo lab with AI-powered applications: eSie Measure, eSie LVA, eSie Left Heart and eSie Valves
- Advanced applications to support routine echo and interventional guidance with eSie PISA, eSie VVI, Volume Right Ventricular Analysis (RVA), Septal Guide, TrueFusion and more
- One-click automated aortic and mitral valve modeling and measurements within seconds with eSie Valves

Ultrasound

## Siemens Healthineers · Acuson Sequoia Ultrasound System

| Frequency range | Display mode | Display size |
|---|---|---|
| 1 – 17.8 MHz | 2D | 15.6" / 22" |


**Highlights**

Powered by BioAcoustic imaging technology to reduce the effects of ultrasound variability among users, patients and technology.

- See more: See deeper and clearer with the latest InTune transducers offering InFocus technology eliminating the need for a conventional focal zone
- Know more: Advanced applications expand clinical information with imaging technologies that improve patient outcomes
- Do more: User designed experiences that improve workflow usability

# Testing Devices

Testing Devices

## IBA Dosimetry · 2-part PMMA CT-Phantom

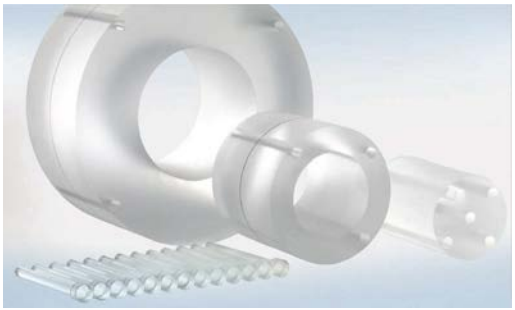
**Highlights**

Phantom for measurements of CTDI according IEC 60601-2-44, IEC 61223-3-5, IEC 61223-2-6.

- 1 Adult Head-Phantom, 16 cm diameter, 5 holes
- 1 Adult Body anulus, 32 cm diameter, 4 holes
- 9 Acrylic rods for plugging in all phantom holes

Testing Devices

## IBA Dosimetry · 3-part PMMA CT-Phantom



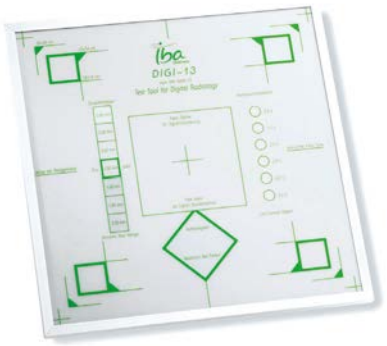
**Highlights**

Phantom for CTDI measurements, according IEC 60601-2-44, IEC 61223-3-5, IEC 61223-2-6.

- Innovative 3-part nested phantom according FDA 21 CFR 1020.33.
- 1 Pediatric Phantom, 10 cm diameter, 5 holes
- 1 Adult Head anulus, 16 cm diameter, 4 holes
- 1 Adult Body anulus, 32 cm diameter, 4 holes
- 13 Acrylic rods for plugging in all phantom holes

Testing Devices

## IBA Dosimetry · DIGI-13




**Highlights**

For quality checks at digital radiographic systems (CR / DR) according DIN 6868-13.

Test parameter:

- Uniformity
- Spatial resolution
- Alignment of light and beam field
- Image scale
- Artifacts
- Geometrical distortion

Testing Devices

## IBA Dosimetry · Dosimax plus I

**Highlights**

Single channel dose meter according IEC 61674 for quality assurance at Radiography-, Fluoroscopy-, Dental- and Mammography systems.
Available with RQA/ RQM / DEDX

Measurement parameter (DEDX):

- Dose: 20 µGy – 9,999 mGy
- Dose rate: 20 µGy/s – 400 mGy/s
- Time: 1 ms – 9,999 s

Testing Devices

## IBA Dosimetry · DSA Test Device

**Highlights**

For Quality Assurance of "Digital Subtraction Angiography" (according DIN 6868-150, DIN 6868-4, IEC 61223-3-3)

Test parameter:

- Cupper dynamic step wedge with logarithmic check
- DSA contrast sensitivity
- Artefacts

Testing Devices

## IBA Dosimetry · DVT-3D

**Highlights**

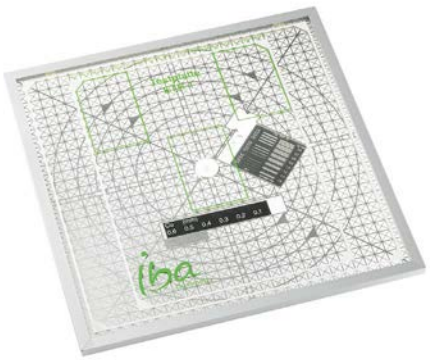
Test of 3D image quality of "Digital Volume Tomography" (DVT) systems, according DIN 6868-150 / DIN 6868-4.
Optional Carbon adapter for easy and precise positioning in the beam without artifacts.

Spatial parameter:

- Detail resolution
- Uniformity and noise
- Laser marks for convenient positioning in iso-center

Testing Devices

## IBA Dosimetry · ETR1 incl. Centering Tube



**Highlights**

For quality checks of conventional radiography systems; according DIN 6868-3; including holder for chest wall stand.

Test parameter:
- Spatial resolution
- Low contrast
- Alignment of light and beam field
- Geometrical distortion
- Measuring areas for optical density

Testing Devices

## IBA Dosimetry · KermaX plus DDP "Duo"

**Highlights**

Multifunctional duo-channel dosimeter dedicated to measure DAP, DAP rate and exposure time in patient dose monitoring.
Two Rectangular, transparent ionization chamber with integrated electronics and one separate "Dual Line Display" with two very bright LED display lines.

Measurement parameter:
- DAP rate: 0.01 µGym²/s – 3,000 µGym²/s
- DAP resolution: 0.01 µGym²
- Interface: 2 × RS 232 (RIS/HIS and printer)

Testing Devices

## IBA Dosimetry · KermaX plus IDP

**Highlights**

Ideal solution for a quick and convenient retrofit installation to measure DAP and DAP rate for patient dose monitoring.
Rectangular, transparent ionization chamber with integrated 10-digit internal background lighting LCD display.

Measurement parameter:
- DAP rate: 0.01 µGym²/s – 3,000 µGym²/s
- DAP resolution: 0.01 µGym²
- Interface (optional): RS232, RS485

Testing Devices

## IBA Dosimetry · KermaX plus SDP

**Highlights**

Easy to install standard dosimeter dedicated to measure DAP and DAP rate for patient dose monitoring.
Rectangular, transparent ionization chamber and separate 10-digit background lighting LCD "Single Line Display".

Measurement parameter:
- DAP rate: 0.01 µGym²/s – 3,000 µGym²/s
- DAP resolution: 0.01 µGym²
- Interface: 1 × RS232 (RIS/HIS or printer)

Testing Devices

## IBA Dosimetry · KermaX plus TinO IDP

**Highlights**

Two in One – Dose Area Product and dose measurements in one Chamber.
Rectangular, transparent ionization chamber with integrated 10-digit internal background lighting LCD display for easy and smart installation at collimator rails.

Measurement parameter:
- DAP rate: 0.01 µGym²/s – 3,000 µGym²/s
- DAP resolution: 0.01 µGym²
- Interface (optional): RS232, RS485, CAN

Testing Devices

## IBA Dosimetry · Mammo-14

**Highlights**

For quality assurance / constancy test at digital mammography systems according DIN 6868-14.
- 40 mm base plate with integrated Al step wedge and 2 rows of steel balls, for checking the image limitation towards the thorax side.
- 6 mm structural plate with recess for test inserts
- Test insert: PMMA, SDNR & High Contrast
- 3 × 20 mm / 1 × 10 mm / 1 × 4 mm PMMA attenuation plates
- 2 × 20 mm PMMA full field attenuation plate (260 × 320 mm)

Testing Devices

## IBA Dosimetry · Mammo-152

**Highlights**

For quality assurance / acceptance and constancy tests according DIN 6868-152, DIN 6868-7, IEC 61223-3-2 and EPQC (EUREF) in conventional mammography.

Test parameter:

- Object thickness and tube voltage compensation resp. AEC reproducibility
- Spatial and contrast resolution
- Artifacts / Geometry
- Check of the image limitation towards the thorax side

Testing Devices

## IBA Dosimetry · Mammo-162

**Highlights**

For quality assurance / acceptance test of digital Mammography Systems, according DIN 6868-162.

- 40 mm base plate with integrated Al step wedge and 2 rows of steel balls, for checking the image limitation towards the thorax side.
- 6 mm structural plate with recess for test inserts
- Test insert: PMMA, SDNR & High Contrast
- 3 × 20 mm / 1 × 10 mm / 1 × 4 mm PMMA attenuation plates
- 1 × 20 mm PMMA full field attenuation plate (260 × 320 mm)

Testing Devices

## IBA Dosimetry · Multimeter MagicMaX Universal

**Highlights**

Usable with different detectors:

- XR – Radiography/ Fluoroscopy /Dental
- XM – Mammography
- 10XF-3CT – Ionization Chamber for CT

Measurement parameter:

Dose / dose rate – dose per pulse – kVp / PPV –time –total filtration – HVL – wave form – dose, dose rate length product for CT

Testing Devices

## IBA Dosimetry · Spot-Luminance Meter LXcan

**Highlights**

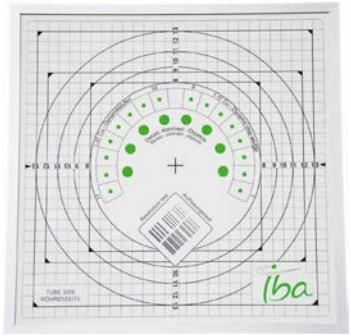
For luminance measurements at image display devices according DIN 6868-157, DIN V 6868-57, IEC 61223-2-5 and AAPM TG18.

- Distance and contact measurement
- Easy targeting with a built-in camera and display
- Ultrasound distance sensor for the optimal distance

Optional photometric detector LX-LS to measure the Illuminace in combination with LXcan

Testing Devices

## IBA Dosimetry · Test Device Primus A



**Highlights**

Test device Primus A is designed according DIN 6868-150 & DIN 6868-4 for Quality assurance at radiography and fluoroscopy systems.

- 17 steps for dynamic verification
- 8 low contrast sensitivity circles
- Grid for easy and efficient determination of light- & beam field alignment as well as geometrical distortions

Testing Devices

## Quart · Anthropomorphic X-Ray Phantoms

**Highlights**

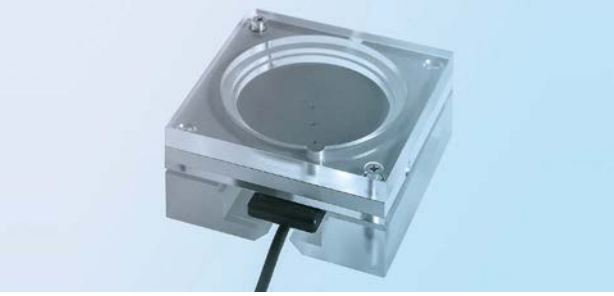
- Our German-made anthropomorphic phantoms allow repeated x-ray imaging of specific body regions. They are used in x-ray trainings or for specific equipment tests under life-like conditions.
- The phantoms comprise of real human bones embedded in tissue-equivalent material.

Available phantom versions

- Full Body
- Head
- Hand / arm
- Hip / spine
- Foot / leg
- Special training phantoms

Testing Devices

## Quart · dent / digitest Dental QA / QC Test Phantom



**Highlights**

- Quart dent / digitest 2D dental test phantoms are designed to assess x-ray imaging parameters according DIN and IEC QA / QC requirements
- Features patient equivalent filtration and test objects to perform full-scale x-ray image quality analyses

**Parameters**

- Spatial resolution
- High-contrast resolution
- Low-contrast resolution
- Homogeneity / artefacts
- Radiation field / tube alignment

Testing Devices

## Quart · didoCT Pencil Chamber Meter

**Highlights**

The Quart didoCT pencil-shaped ion chamber meter is designed for easy and precise dose-width product measurements.

- The meter does not require any pre-setting procedure for direct reading of DWP, rate and time.
- As an optional feature, the Quart didoCT can be supplied with free-in-air direct HVL measurement capability. This device feature is unique and had only been introduced by Quart in a CTDI chamber.

Testing Devices

## Quart · didoEASY Diagnostic X-Ray Meters

**Highlights**

- The Quart didoEASY meters are designed for quick measurements of dose, dose rate and exposure time in X-ray QA / QC and service.
- didoEASY meters automatically compensate all radiation qualities in their area of application. Three meter versions are available: for R / F and dental (50 – 150 kV), for mammography (25 – 40 kV), and one for the full diagnostic range (25 – 150 kV).

Testing Devices

## Quart · didoNEO R Diagnostic X-Ray Dosemeter

**Highlights**

The Quart didoNEO introduces a new approach to diagnostic x-ray meters: it features the most compact base unit and most compact detector in the x-ray meter industry. The didoNEO R is used for QA and service in Radiography, (Pulsed) Fluoroscopy, DSA, Dental, 3D (CBCT).

- Compact multi-functional state-of-the-art solid state detector
- Enables measurements in spots with limited space
- Measures behind scatter radiation grids
- Direct measurement of DLP/DWP in dental OPG

Testing Devices

## Quart · DSA Test Phantom

**Highlights**

- The Quart DSA phantom features longitudinal sliding technique to minimise structural movement artefacts in the test image. It complies with DIN 6868-4, 6868-150 and IEC 61223-3-3.
- A special characteristic of the phantom is that it realistically reproduces the injection procedure of the contrast agent into vessels with different attenuation properties.

Testing Devices

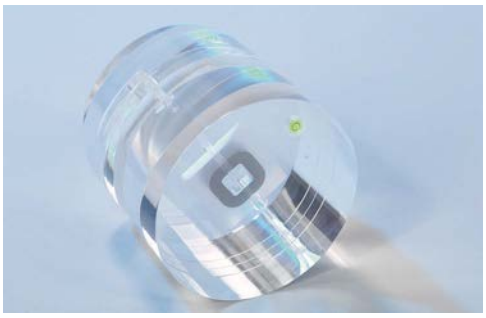
## Quart · DVT 150 CBCT IQ Test Phantom

**Highlights**

- The Quart DVT 150 phantom is designed to meet the requirements of the German DIN 6868-150 x-ray imaging acceptance test standard.
- Handling and positioning of the phantom is easy and straight-forward. It enables quick and simple contrast resolution tests for 3D, ENT and angiography x-ray applications.

Testing Devices

## Quart · DVTap Cone-Beam CT Test Phantom

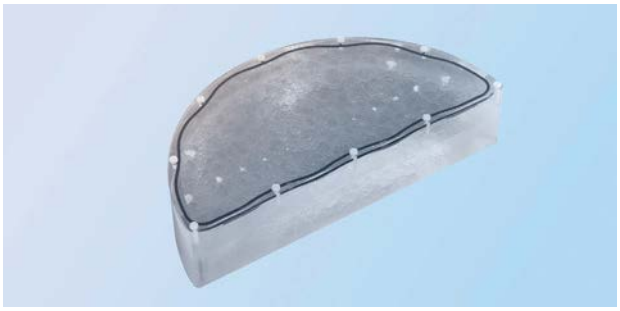


**Highlights**

- The Quart DVTap phantom is designed for QA / QC at cone-beam CT (CBCT), dental volume tomography (DVT) and further 3D imaging equipment.
- It is to be used in dental 3D imaging (according DIN and latest IEC requirements) as well as angiography in C-arm x-ray applications (manufacturer-specific applications).
- Based on latest research, the solution can also be utilised for standard CT IQ tests.

Testing Devices

## Quart · mamTOMO Digital Breast Tomosynthesis Phantom



**Highlights**

- The mamTOMO phantom is a novel approach in DBT QA. The phantom incorporates 3D test objects that simulate lesions and nonspiculated masses in a nonhomogeneous background.
- An associated automated evaluation software assists at all test stages from image processing, statistic data evaluation to extrapolation of threshold diameters for lesion perceptibility.

Testing Devices

## Quart · MRI Test Phantom

**Highlights**

- The Quart MRI test phantom was the first-to-market product to meet the requirements of the new MRI QA standard.
- It enables assessment of MRI equipment according to the IEC 62464-1 (2018) and features tracking of IQ parameters for a selectable time period, performance comparisons of different MR scanners and early identification of potential hardware failure.
- The phantom is associated with a QA image scoring software which introduces a new approach and allows time-efficient MRI QA procedures.

Testing Devices

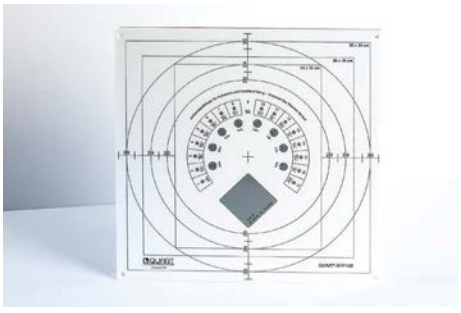
## Quart · nonius Digital X-Ray Ruler

**Highlights**

- The Quart nonius is a sophisticated, fully electronic x-ray ruler to verify size and geometrical properties of x-ray fields in radiography and mammography. It can also be used to analyse fanned CT or dental OPG x-ray beams.
- Its resolution capabilities and precision go down into to the nonius range of 0.1 mm!
- Take only 3 steps to obtain the test result: Position – Expose – Evaluate.

Testing Devices

## Quart · RFP150 RF IQ Phantom



**Highlights**

- The Quart RFP150 phantom enables assessment of digital x-ray equipment according to the German DIN 6868-150 and DIN 6868-4.
- The phantom is available with a unique kV test object to assess radiation quality and generator performance on a routinely basis.
- A small phantom version (SPdI) is available as well as a suspension system for use on wall-mounted x-ray systems.

Testing Devices

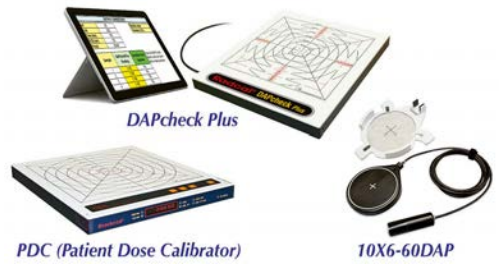
## Radcal · Accu-Gold Windows-based Systems for X-Ray QA


**Highlights**

- The most dynamic x-ray QA meter available
- Supports all medical x-ray modalities
- Operates with all of Radcal's ion chambers, solid state, mA and light sensors
- Includes customizable easy-to-use software
- Report generation
- Waveform analysis
- Optional WiFi capability

Testing Devices

## Radcal · DAP Calibration Sensors




**Highlights PDC**

Radcal provides Dose Area Product (DAP) calibration sensors as part of the Accu-Gold+ product family. These sensors provide quick and easy calibration of installed DAP meters by providing accurate measures of DAP and DAP rate.

**Highlights 10X6-60DAP**

- Ideal for Dose Area Product (DAP) of Pan-Dental or CBCT-Dental
- Easy to use mounting alignment fixture
- Unit selection of Gy-m$^2$ or Gy-cm$^2$
- Flat energy response
- Plug and Play with your existing Radcal Touch or Accu-Gold system – no calibration adjustments

Testing Devices

## Radcal · Sensors Selections

**Highlights**

Radcal provides the most comprehensive line of diagnostic x-ray sensors in the industry, including solid-state Multisensors, cost-effective solid-state dose sensors, and gold standard ion chambers.

Testing Devices

## Radcal · Touch Systems for X-Ray QA

*Touch Stand–alone Systems*

**Highlights**
**Touch Stand-alone Systems**

- Stand-alone diagnostic test meter
- Supports all x-ray modalities
- Reliably captures Dose, Dose Rate, kV, HVL, Filtration, mA and more
- Rechargeable Battery
- Stores all measurement data

*Touch Professional Systems*

**Highlights**
**Touch Professional Systems**

- Stand-alone diagnostic test meter
- Computer connectivity – WiFi and USB
- Supports all x-ray modalities
- Reliably captures Dose, Dose Rate, kV, HVL, Filtration, mA and more
- Rechargeable Battery
- Report generation and Waveform analysis
- Stores all measurement data

Testing Devices

## RTI Group · Cobia


**Highlights**

Cobia is RTI's easy-to-use solution for quick and efficient measurements of a variety of radiography and fluoroscopy parameters. For wireless testing, equip your Cobia with a built-in Bluetooth connection. Ocean Next software included. Select the model that suits your needs, and only pay for what you need to measure!

Testing Devices

## RTI Group · Ocean Next software

**Highlights**

Ocean Next software is the most powerful software in X-ray Quality Control. With its three different license levels Quick, Advantage, and Professional, you can handle any testing situation with ease from a quick check for radiation to any application for routine controls, PMs, etc. This essential application can be customized to suit your needs – workflow, automatic tests, reports, and more – with traceability every time! You will have a solution that's compliant with any regulation and quality criteria. Ocean Next can be used with all Piranha and Cobia meters as well as the RTI Scatter Probe.

Testing Devices

## RTI Group · Piranha

**Highlights**

Piranha is RTI's premium platform for reliable Quality Control. All Piranhas are wireless, come ready to use with Bluetooth connection, and include Ocean Next software. The Piranha MULTI model can be used for X-ray QA of all modalities - R/F, Dental, Mammo, and CT – whereas the other four meters are dedicated to one specific modality. With an automatic connection to various RTI accessories, just plug and play!

Testing Devices

## RTI Group · Scatter Probe

**Highlights**

A leakage and scatter detector in one! The revolutionary RTI Scatter Probe is a rugged, flat, solid-state detector for leakage and scatter detection in X-ray environments. Its unique design – two separate detector areas of 10 $cm^2$ and 100 $cm^2$ – fulfills current regulations and standards (21 CFR 1020.20-40 and IEC 60601-1-3) for X-ray leakage and scatter measurements. Connects to Ocean Next software for reading, reporting, and analysis.

Testing Devices

## VacuTec · AEC Chamber


**Highlights**

Digital interface ensures EMC stable signal transmission and provides an open dose working range.

Technical specs:
- Tube voltage: 40 kV …150 kV
- Dose rate range: 0.5 …1,000 µGy/s
- Aluminum equivalent: <0.75 mm Al
- Analog interface: ramp voltage 0 – 10 V
- Digital interface: differential pulses (RS422)
- Resolution: 0.025 µGy
- Pulse width: 2 µs

Testing Devices

## VacuTec · VacuDAP / VacuDAP *duo*


**Highlights**

The VacuDAP family provides a wide range of DAP and Dose measuring solutions for most of the diagnostic X-ray systems in the market.

Technical specs:
- Resolution DAP: 0.01 µGym²
- Resolution Dose: 0.003 mGy
- Interface: RS485, RS232, Bluetooth, CAN
- Active area: 123 × 123 mm / 147 × 147 mm

Testing Devices

## VacuTec · VacuDAP Bluetooth


**Highlights**
- VacuDAP chamber is now available with Bluetooth technology.
- Perfect suitable for DR upgrades and mobile X-ray units.
- The battery ensures simplest installation ever.

Technical specs:
- Resolution DAP: 0.01 µGym²
- Active area: 123 × 123 mm / 147 × 147 mm
- Battery operation time: about 24 h



Testing Devices

## VacuTec · VacuDAP-C / VacuDAP-C *duo*


**Highlights**

The VacuDAP-C systems for measurement of DAP and Dose are basically integrated in interventional devices with customized calibration settings.

Technical specs:
- Resolution DAP: 0.01 µGym²
- Resolution Dose: 0.005 mGy
- Interface: RS485, RS232, Bluetooth, CAN
- Active area: Ø (8 …100) mm

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**Printed by**
mgo360 GmbH & Co. KG, Bamberg



mgo fachverlage A brand of Mediengruppe Oberfranken

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