

€ 22.-



The Guide to Imaging
Technology and Informatics in Europe

RAD BOOK 2024

Vol. 18



Computed Tomography at Siemens Healthineers stands as an innovation powerhouse, redesigning and augmenting the entire portfolio to support healthcare providers in delivering the best possible patient care. Find out more inside this issue of the RAD Book 2024.



GMMGROUP

Driving the future of Radiology



www.gmmspa.com



Dear reader,

we are at a turning point in radiology, characterised by exciting technological breakthroughs. With this year's RADBook, we want to provide you with a guide to the fascinating developments that are shaping and influencing the industry.

Artificial intelligence (AI) has proven to pave the way for more precise and efficient radiological procedures. The products presented here integrate advanced AI algorithms that can recognise complex patterns and assist radiologists in image interpretation. This combination of human expertise and machine learning opens up new possibilities for faster diagnoses and more precise patient care. And this is necessary, because the era of personalised medicine has long since dawned, in which radiology plays a decisive role. The products you will find in this catalogue are designed to meet the individual needs of each patient. From the precise localisation of tumours to the monitoring of therapy progression, these instruments offer the possibility of tailoring treatment to individual circumstances and thus ensuring personalised medical care.

The introduction of teleradiology has transcended conventional boundaries. Through digitalisation and the seamless exchange of data, radiologists can analyse images and findings in real time across any distance. These advances open up new perspectives for medical care and provide access to expertise, regardless of geographical barriers.

Radiation protection remains a central aspect of radiology. The solutions and products presented in this catalogue are designed not only to enable precise diagnoses, but also to minimise radiation exposure for patients and healthcare professionals. Innovative technologies and strict safety standards protect the health of everyone involved without compromising on diagnostic accuracy and image quality.

Get inspired!

Best regards,

A handwritten signature in black ink that reads "S. Buske".

Sonja Buske

Specialist Editor Healthcare



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mindray

Resona I9 Elite

Innovation, in every facet



- iConsole - Intelligent Control Panel
- Intuitive Touch screen
- Excellent Screen experience
- Bedside Exams without Power Cables



Resona I9

General imaging ultrasound system with completely innovative features from inside out

<https://www.resona7.com/news-ri9.html>

Computed Tomography

Photon-Counting
Dual Source CT
Volume CT
20 to 64 Slices
Mobile CT
Cone Beam CT
Oncology CT
Accessories /
Complementary Systems

Canon
CANON ELECTRON TUBES & DEVICES CO., LTD.

ultrasound
technologies

Cone Beam 3D Imaging
NewTom
what's next

UNITED
IMAGING

FUJIFILM

DUNLEE

IMD
GENERATORS



Planmed

PTW
THE
DOSIMETRY
COMPANY

SIEMENS
Healthineers


Photon-counting CT

Siemens Healthineers · NAEOTOM Alpha

Power 240 kW	Gantry bore 82 cm	Scan speed 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 200 kW	Gantry bore 78 cm	Scan speed 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 240 kW	Gantry bore 78 cm	Scan speed 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)




Dual Source CT

Siemens Healthineers · SOMATOM Pro.Pulse

Power 150 kW	Gantry bore 70 cm	Scan speed 372 mm/s
------------------------	-----------------------------	-------------------------------

Highlights

- High power, speed, and precision enabled by Dual Source technology.
- Outstanding native temporal resolution (86 ms) for high-quality cardiac CTA even with high heart rates – and without beta-blockers.
- Free-breathing, low dose and pediatric scans without sedation
- AI-supported end-to-end workflow with myExam Companion
- Patient-centric technologies like the gantry-mounted FAST 3D Camera
- Dose-neutral Spectral imaging




Volume CT

Fujifilm · Scenaria View

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



Navigating the evolution of Computed Tomography

Innovation is key at Siemens Healthineers

Computed Tomography (CT) has transcended its traditional diagnostic role, emerging as a pivotal player in early disease detection and therapy planning. This evolution introduces a broader patient cohort and heightened productivity demands, all amidst a backdrop of challenges around hygiene, supply chain, and staffing.

In this dynamic landscape, a reliable partner is essential: Computed Tomography at Siemens Healthineers, with almost 50 years of experience, is innovating ahead of these developments, even before potentials become needs.

Pioneering the new role of CT

The clinical role of CT is expanding, driven by evolving guidelines and large-scale governmental screening programs. Siemens Healthineers is spearheading innovations to meet these developments.

NAEOTOM Alpha, for example, can visualize previously undetectable details in the heart and thus extend the reach to more cardiovascular patients. Siemens Healthineers offers a benchmark in cardiac imaging, making available Dual Source CT everywhere through SOMATOM Pro.Pulse, and facilitates minimally invasive procedures with myNeedle Companion and CT-guided Percutaneous Coronary Interventions.

The focus is on innovation, from screening to therapy planning, to stay ahead of the evolving role of CT in healthcare.

Meeting productivity demands

The expanded clinical needs bring with them a larger patient cohort and heightened productivity demands. Siemens Healthineers responds with cutting-edge AI-powered solutions, such as zero-click automated reconstructions directly from the scanner, enhancing healthcare professionals' capacities.

The patient-centric workflow of the SOMATOM go. platform transforms the interaction between staff, patients, and technology. The SOMATOM X. platform streamlines CT procedures with intelligent imaging through myExam Companion, reducing time-consum-

ing routine tasks and personalizing scanning for each patient. At the same time, myExam Companion is moving into its second generation, helping users realize the full potential of their CTs.

Siemens Healthineers continues to innovate ahead with smart technologies, addressing the resilient productivity needs of care providers.

Nurturing a sustainable future

In a landscape where access to sustainable and affordable solutions remains a challenge, Siemens Healthineers is actively working towards decentralizing care, expanding access, and creating a digitally connected, seamless experience.

As CT diagnostics are being deployed in intensive care units with SOMATOM On.site, the vision is to extend it into the pre-hospital setting as mobile stroke units. From Dual Source CT with SOMATOM Pro.Pulse and photon-counting CT with a committed roadmap following NAEOTOM Alpha, Siemens Healthineers strives to make their signature and most innovative technologies even more accessible.

Siemens Healthineers is also leading ahead in efficient and sustainable system designs, aiming to achieve net-zero greenhouse gas emissions by 2050. The goal is to provide longevity and robustness with accessible and future-proof solutions.

An innovation powerhouse

Today, Computed Tomography at Siemens Healthineers stands as an innovation powerhouse, redesigning and augmenting the entire portfolio to support healthcare providers in delivering the best possible patient care.

As healthcare providers think ahead, Siemens Healthineers innovates ahead, ensuring that the evolution of CT aligns seamlessly with their demands and expectations.

www.siemens-healthineers.com



NAEOTOM Alpha



SOMATOM Pro.Pulse

SOMATOM go. platform




Volume CT

Fujifilm · Supria 64 / 128

Power 51 kW	Gantry bore 75 cm	Scan range 180 cm
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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 m²



Volume CT


Siemens Healthineers · SOMATOM go.Top

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

SOMATOM go.Top is a clinical allrounder that gives you full flexibility in your clinical tasks.

- AI-supported end-to-end workflow automation and enhanced user guidance with myExam Companion.
- Smart features that put patients' well-being into focus thanks to myExam Care.
- Best-in-its class imaging chain with low-kV imaging, 10 kV steps, Tin Filter, Stellar detector.
- Excellent cardiac imaging with ZeeFree.
- Holistic spectral imaging solution.
- Maximize versatility of existing facilities with a system footprint of 4 m² and a FAST 3D camera gantry-mounted.




Volume CT

Siemens Healthineers · SOMATOM X.ceed

Power 105 kW	Gantry bore 82 cm	Scan speed Up to 261 mm/s
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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 105 kW	Gantry bore 82 cm	Scan speed 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 · Supria 16 / 32

Power 51 kW	Gantry bore 75 cm	Scan range 180 cm
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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 75 kW	Gantry bore 70 cm	Scan range Up to 200 cm
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Highlights

SOMATOM go.All is a scanner that unlocks more than routine – covering daily procedures and ready for more advanced ones when needed.

- AI-supported end-to-end workflow automation and enhanced user guidance with myExam Companion.
- Smart features that put patients' well-being into focus thanks to myExam Care.
- Best-in-its class imaging chain with low-kV imaging, 10 kV steps, Tin Filter, Stellar detector.
- Maximize versatility of existing facilities with a system footprint of 4 m² and a FAST 3D camera gantry-mounted.



- Access to CT-guided intervention and Lung Cancer Screening.

Discussing the benefits of cone beam CT

Radiology practitioners discuss the benefits of cone beam CT in delivering high resolution at a low dose. They explain how cone beam CT (CBCT) could replace multidetector CT (MDCT) in some areas and is already showing cost-effectiveness benefits.

Report: *Mark Nicholls*

Medical physicist Mika Kortensniemi outlines the technical principles, dose and artefacts of CBCT, looking at advantages and disadvantages. 'There are many applications and they are expanding in certain clinical indications,' he says. 'That includes dental and ear, nose and throat (ENT) radiology, and also for radiotherapy on-board imaging for verification of treatments.' The technique is also seeing applications in interventional radiology, rotational angiography, and physical extremities in musculoskeletal (MSK) imaging, with the emerging value of the 3D beam becoming clearer. 'CBCT can also be used in various orientations,' Kortensniemi continues. 'We can do weight bearing imaging for extremities, bringing added value on how the tissue structures behave under pressure of the gravitational force.'

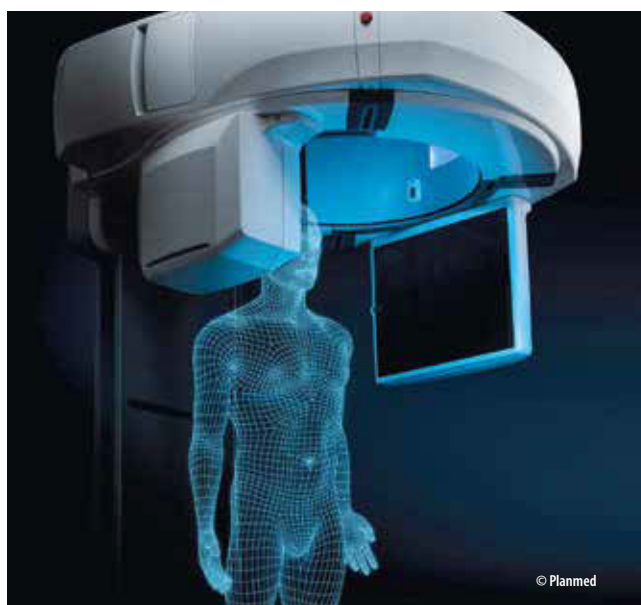
Meaningful data and other benefits

CBCT technology is smaller and easier to install in a clinical setting with associated cost benefits as compared to MDCT, the expert points out. In addition, when compared to traditional 2D imaging, CBCT can offer 'supplementary and often much more diagnostically meaningful data.' On the other hand, he also acknowledged technical and physical shortcomings, with limited field of view and issues of heterogeneous radiation dose distribution within the area that is imaged. Kortensniemi, who is Adjunct Professor and Chief Physicist in the Department of Medical Imaging at the University of Helsinki, Finland, highlights the higher resolution with lower dose, pointing to Voxel sizes down to 0.1 mm and with a scalable field of view from 2-26 cm and the potential to scan the whole head, with scanners being developed capable of covering larger body regions. With the flat panel detector technology, he noted that gantry weights vary from about 60 kg to more than 600 kg.

Potential for optimisation

He says there are a limited number of projections for the raw data CBCT acquires, especially compared to multi-slice CT, which has much more projections to a rotation. The lower number of projections, in combination with limited field-of-view, means a decrease in low or soft tissue contrast and there is a longer scan time of 10-30 seconds, during which patients may move.

Most CBCT scanners use short radiation pulses rather than continually exposing patients during gantry rotation, and reconstruction time is getting shorter due to more efficient reconstructions, with a move towards AI-based image reconstruction. 'One of the key optimisation strategies in CBCT is to optimise the field of view to



the minimum needed for a diagnostic question,' he says. 'A range of different field of views have direct impact on the patient dose.'

Will technology make artifacts a thing of the past?

Artifacts – caused from metals in dental implants, for example – are an issue to consider with CBCT, Kortensniemi adds. These can cause additional scatter and beam hardening. He believes with evolving image calculation and reconstruction techniques there will be better means to correct these artifacts, which may also be caused through patient movements, to improve the overall image quality. The expert says DAP (dose area product) provides a simple and robust dosimetry unit for CBCT and avoids scatter problems in measurement. Comparing CBCT to MDCT, he says CBCT had lower performance in terms of scan time, soft tissue contrast and clinical applications, but had positives in terms of cost, required area, patient dose – to some extent – and spatial resolution.

'A choice for quality and lower radiation'

Sana Boudabbous from the Faculty of Medicine at the University of Geneva, Switzerland, focussed on CBCT in morphologic and functional MSK imaging. She says: 'It gives 3D imaging with high quality, high resolution, weight bearing position is first advantage of this technique for many diseases for lower limbs and lower dose than conventional CT. The future will be reduced contrast, use of dual energy and bone quantification for example in osteoporosis.' Everyone agrees: CBCT is a choice for quality and lower radiation.


20 to 64 Slices

Siemens Healthineers · SOMATOM go.Now

Power 32 kW	Gantry bore 70 cm	Scan range Up to 160 cm
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Highlights
SOMATOM go.Now is a robust and reliable system that provides access to CT imaging.

- AI-supported end-to-end workflow automation and enhanced user guidance with myExam Companion.
- Smart features that put patients' well-being into focus thanks to myExam Care and the new FAST 3D camera gantry-mounted.
- Best-in-its class imaging chain with up to 0.5 s rotation time, Tin Filter and Stellar detector synchronized with intelligent workflows.
- Maximize versatility of existing facilities with a system footprint of 4 m² and a FAST 3D camera gantry-mounted.




20 to 64 Slices

Siemens Healthineers · SOMATOM go.Up

Power 32 kW	Gantry bore 70 cm	Scan range Up to 200 cm
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Highlights
SOMATOM go.Up is a scanner designed for daily routine that helps you handle high throughput and challenging cases with ease.

- AI-supported end-to-end workflow automation and enhanced user guidance with myExam Companion.
- Smart features that put patients' well-being into focus thanks to myExam Care.
- Best-in-its class imaging chain with up to 0.5 s rotation time, Tin Filter and Stellar detector.
- Maximize versatility of existing facilities with a system footprint of 4 m² and a FAST 3D camera gantry-mounted.
- Access to CT-guided intervention and Lung Cancer Screening.




20 to 64 Slices

United Imaging Healthcare Poland · uCT 960+

Power 100 kW	Gantry bore 82 cm Ultra-wide Bore	Scan range 16 cm Wide Z-detector
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Highlights
As an ultra-premium 640-slice CT scanner, uCT 960+ features 16 cm z-axis detector coverage, 0.25 s rotation speed, an ultra-wide 82 cm bore, and a 318 kg. table weight capacity. Using industry-leading AI-empowered technologies, it launches the era of intelligent imaging, offering precise imaging and ease of use throughout the entire clinical spectrum.



Mobile CT

Siemens Healthineers · SOMATOM On.site

Power 35 kW	Gantry bore 35 cm	Slices 32
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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




Cone Beam CT

Cefla · NewTom 7G

FOV 4 × 4 cm – 29 × 56 cm	Scan time 7.2 – 26.0 s	Pixel size 90 – 500 μm
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Highlights
NewTom 7G is the most advanced CBCT device on the market, applying Cone Beam technology to all areas of the body, including spine, shoulder and hip. The 7G adapts FOVs and X-ray doses to the patient's build, and generates images with a resolution of up to 90 μm. Developed to acquire bilateral hip images, it captures a 40 × 17 cm horizontally extended FOV, enabling comparative assessment via reconstruction into a single volume.



Cone Beam CT


Cefla · NewTom GiANO HR Range

FOV 4 × 4 cm – 16 × 18 cm	Scan time 14 s	Pixel size 68 – 100 μm
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Highlights
GiANO HR exists in 3 configurations:

- 3D Prime: 10 × 8 cm for all dental and implant planning needs
- 3D Advanced: 13 × 16 cm with FOV for maximum endodontic resolution to complete ENT analysis
- 3D Professional: 16 × 18 cm to investigate the entire dental-maxillofacial area and cervical spine

With the relocatable CMOS CsI sensor, teleradiographic system, and Direct Conversion Detector option, GiANO HR produces high quality 2D images for cephalometric and carpal examinations.




Computed Tomography

Cone Beam CT

Cefla · NewTom VGi evo

FOV 5 × 5 cm – 24 × 19 cm	Scan time 15 s	Pixel size 100 μm
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Highlights
 VGi evo ensures a broad range of FOVs for acquisitions up to 24 × 19 cm. Volumetric, panoramic and teleradiographic exams as well as dynamic X-rays are available. Excellent image quality with very low radiated doses safeguards the patient's health. A single scan generates HiRes images of airways, both TMJs, maxillary and nasal sinuses. Clear, precise scans reveal greater details of both the internal ear and the petrous bone, making VGi evo an ideal choice for otorhinolaryngology investigations.



Cone Beam CT

Planmed Oy · Verity

FOV 13 × 16 cm	Scan time 18 s	Pixel size 127 μm
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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 75 kW	Gantry bore 85 cm	Scan speed Up to 200 mm / s
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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 75 kW	Gantry bore 85 cm	Scan speed Up to 200 mm / s
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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 technologies 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 32 kW	Gantry bore 70 cm	Scan speed 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 · 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
 - Choice of tubes to address preferred performance level
- Tube Options:
 - CT3000 X-ray tube (MHU 19 eff., 60 kW, Gantry Speed 120 RPM)
 - CT4000 X-ray tube (MHU 25 eff., 80 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 CoolGilde 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 34 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)

Achieve Nearly Arc-Free Scanning with Dunlee

Your ability to keep your CT department on schedule depends on your CT system uptime, which is why avoiding scan-interrupting arcs is so critical.

A field study of Dunlee's CT Xpert bundles concluded that they have fewer than one scan-interrupting arc in 3 years.*

That pays off in decreased downtime, lower risk of image artifacts, enhanced workflow because of fewer scan interruptions and a lower risk of rescans.

*At an average utilization of 200 kss per year

Visit dunlee.com to learn more



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 · X-ray Monobloc, Raw family

Highlights

- Single Tank X-ray Generator, all aluminium case
- Customised Product according to the customer's technical requirements
- Power available from 3.5 kW up to 15 kW
- Properly developed and designed for CT application for Fluoroscopy and Pulse



Accessories / Complementary Systems

PTW · QRM Cone-Beam Phantom

Highlights

- Multipurpose phantom for comparison of different CT and CBCT scanner solutions
- Assess all relevant image quality metrics
- Provides different low contrast sections and spatial resolution bar patterns
- Allows MTF measurements in different orientations



Accessories / Complementary Systems

PTW · QRM D100 Insert Phantoms

Highlights

- Various D100 Insert phantoms covering a variety of image quality, multi-energy and radiotherapy purposes
- All of the inserts fit into our (semi-)anthropomorphic phantoms
- For an overview of multiple D100 Insert phantoms, visit our Website qrm.de



Accessories / Complementary Systems

PTW · QRM Multi-Energy QA Phantom

Highlights

- For different types of CT systems with dual-energy, multi-energy or photon-counting setups
- Test multi-energy spectral CT protocols and post-processing techniques
- Decompose Iodine and CaHA levels
- A set of 26 inserts including rods enriched with several contrast media
- Other materials can be manufactured upon request



Accessories / Complementary Systems

Ultrasound Technologies · MediCO2LON

Highlights

Colonic Insufflator for CT colonography. The MediCO₂LON provides automated colonic distension with CO₂ 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 / MR
7 Tesla
3 Tesla
1.5 Tesla
High-V MRI (0.55 Tesla)
Oncology
Open
MRI Coils
Accessories /
Complementary Systems



MRg-A-SBRT can significantly enhance the safety of radiotherapy for prostate cancer patients. Image courtesy of the Netherlands Cancer Institute (NKI)

MR-guided radiotherapy: a potential game changer

Prostate radiotherapy techniques have been transformed over the past two decades. One promising technique in this context is magnetic resonance-guided radiotherapy. The latest clinical results show a dramatic reduction in side effects, improving patient outcomes and quality of life.

Report: *Bernard Banga*

Prostate cancer is the fourth most common cancer worldwide. According to the International Agency for Research on Cancer (IARC), there were over 1.4 million new cases worldwide in 2020, and by 2040 this is set to rise to 29.5 million new cases and 16.3 million deaths annually. Radiotherapy remains a fundamental component of effective treatment, with 50% of all cancer patients receiving it as part of their care. In external beam radiotherapy, radiation is delivered to the prostate five days a week from a machine outside the body.

Prostate radiation therapy: 90% success but short-term side effects

'This standard treatment option for prostate cancer can lead to short- and long-term side effects, however, including urinary problems, bowel problems, fatigue, erectile dysfunction and damage to

surrounding tissue,' said US radiation oncologist Dr Jonathan E. Lee-man. Oncologists and radiotherapist teams use several main strategies to minimize the risk of these side effects, including careful treatment planning and close patient monitoring during and after radiation therapy.

In a risk-adapted strategy, contemporary radiotherapy treatment algorithms use pretreatment prognostic factors to stratify patients into low-, intermediate-, and high-risk groups. Then, precision radiation delivery techniques, such as intensity-modulated radiation therapy and image-guided radiation therapy, are used to help avoid exposure to normal tissues.

A US-European research collaboration

Magnetic resonance-guided radiotherapy (MRgRT) uses offline MR imaging to help plan radiation volumes in order to ensure accurate tumour targeting while sparing critical normal tissues. MRg-A-SBRT

is the product of advances in MR-guided radiotherapy and stereotactic body radiation therapy (SBRT) and emerged at the beginning of the decade from a collaboration between US and European researchers and clinicians.

These include the Department of Radiation Oncology at Stanford University, Memorial Sloan Kettering Cancer Center (MSKCC), New-York the Belgian University Medical Center Utrecht (UMC Utrecht) and the German Research Center for Oncology (DKFZ) in Heidelberg.

SBRT uses MRI 'to deliver high doses of radiation to precise targets in the body', said Leeman. Real-time monitoring enables treatment to be adapted on a daily basis, tailoring radiation delivery to prostate changes and thus reducing side effects.

Prospective study analyses data from 29 clinical trials

This technology has already been used successfully to treat breast, prostate, pancreatic, liver, lung and limited metastatic cancers, in addition to non-cancer indications such as cardiac ablation. MRg-A-SBRT enables clinicians to accurately target the prostate while sparing bladder, urethra, and rectal tissue. However, its impact on clinical outcomes and side effects compared to standard computed tomography-guided SBRT (CT-SBRT) was unclear.

A team of researchers from the Dana-Farber Cancer Institute has just published a large study of MR-guided daily adaptive SBRT in Cancer, which directly assesses its benefits compared to standard techniques for the first time.

60% reduction in short-term bowel side effects

The study combined data from 29 clinical trials including a total of 2,547 patients to compare the side effects of MRg-A-SBRT to more

conventional treatment methods with CT guidance but without daily adjustments. 'We found that the risk of short-term urinary side effects was reduced by 44% [a 1.79-fold reduction] and the risk of short-term bowel side effects was reduced by 60% [a 2.5-fold reduction]', said Leeman.

While these results strongly support the use of MRg-A-SBRT as an effective treatment option in prostate cancer, Leeman noted that longer follow-up is required to see whether the short-term benefits will lead to more impactful long-term benefits for benefits.



Dr Jonathan E. Leeman

Dr Jonathan E. Leeman is a radiation oncologist at Dana-Farber Cancer Institute and Brigham and Women's Hospital, Harvard Medical School, USA. He specializes in the treatment of prostate cancer and MRI-guided radiation treatment for multiple cancer types. Dr Leeman's clinical expertise lies in the areas of MRI-guided radiotherapy, adaptive radiotherapy, and prostate cancer. He serves as the physician lead of the MRI-guided radiation program at Dana-Farber Cancer Institute. His research focuses on the treatment of prostate cancer and the development of MRI-guided radiation therapy. He is also an instructor and has specialties in cancer research, radiation oncology, prostate cancer, and head and neck cancer.


PET/MR

Siemens Healthineers · Biograph mMR

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

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



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.


7 Tesla

Siemens Healthineers · Magnetom Terra.X*

Gradient	Slewrate	Channels
135 mT / m ¹	250 T / m / s ¹	8 Tx, 64 Rx

Highlights

- Innovative Ultra IQ Technology including dynamic pTx enables to leverage the full potential of 7T MRI
- Deep Resolve leads to previously unheard resolution and acquisition speed
- Multinuclear MR opens 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 enabled by Open Recon²



* MAGNETOM Terra.X is pending 510(k) clearance and is not commercially available in the US. 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 228 × 128

Highlights

- Our strongest 3T MRI system ever that features Gemini Gradients with 200¹ 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 enables unmatched gradient amplitude and maximum spatial resolution
- Magnetom Cima.X features 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 Recon²



¹ ≥ 200 mT/m (±3% for design tolerances).
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 Lumina with BioMatrix

Gradient	Slewrate	Channels
36 mT / m ¹	200 T / m / s ¹	180 × 32

Highlights

- 3T magnet with 70 cm Open Bore and large FOV up to 55 cm³
- With Deep Resolve, our new game-changing acceleration technology, also planned for 3D²
- Unique BioMatrix Technology
- Turbo Suite acceleration packages for 2D and 3D scans cross body
- Guided workflows with myExam Companion
- Unique patient-centered coil portfolio powered by BioMatrix and Tim 4G technology
- Latest applications available with syngo MR XA60A
- Save up to 40%³ energy consumption per year – based on COCIR



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.
² Deep Resolve 3D is currently under development and not commercially available in the US and other countries. Its future availability cannot be ensured.
³ Results were achieved internally using standard and optional features and may vary with no guarantee that the same results can be achieved by the user.


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
- Latest applications available with syngo MR XA60A



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.


3 Tesla

United Imaging Healthcare Poland · uMR OMEGA

Gradient	Channels
45 mT/m & 200 T/m/s	Up to 96

Highlights

World's first unique 75 cm Ultra-Wide-Bore 3T MRI with a 60 cm field of view and superior magnetic field homogeneity. SuperFlex Coil Next-generation RF coils with blanket-like feeling and higher RF element density for better patient comfort and image quality. Empowered by the uAIFI Technology Platform, the potential for uMR Omega™ is even more anticipated with significant performance enhancements, more powerful imaging capabilities, better workflow, and improved user experience.



1.5 Tesla

Fujifilm · Echelon Smart

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



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	32



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

Highlights

- 1.5 T magnet with 70 cm Open Bore and large FOV up to 50 cm³
- With Deep Resolve, our new game-changing acceleration technology, also planned for 3D²
- Unique BioMatrix Technology
- Turbo Suite acceleration packages for 2D and 3D scans cross body
- Guided workflows with myExam Companion
- Including myExam Implant Suite – solves complexities of scanning patients with implants
- Save up to 40%³ energy consumption per year – based on COCIR



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.
² Deep Resolve 3D is currently under development and not commercially available in the US and other countries. Its future availability cannot be ensured.
³ Results were achieved internally using standard and optional features and may vary with no guarantee that the same results can be achieved by the user.


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
- Available with syngo MR XA50M software



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


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 software



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.

Magnetic Resonance Imaging


1.5 Tesla

Siemens Healthineers · Magnetom Flow*

Gradient	Slewrate	Channels
Up to 35 mT / m ¹	Up to 125 T / m / s ¹	108 × 24

Highlights

- Easy to site 1.5T due to compact footprint and DryCool technology: 0.7 liters of liquid helium – no quench pipe
- More time to care for patients by delivering intuitive workflow for operators at all skill levels with myExam Companion
- High resolution and fast diagnostic results due to AI-powered imaging technologies
- Flexible and intelligent BioMatrix Contour Coils for patient comfort
- Operational excellence across the entire fleet and maximized system uptime



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


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-light-weight Tim 4G coils and Quiet Suite
- Expand clinical offerings with advanced trendsetting applications
- Available with syngo MR XA50M software



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


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 minutes²



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

- 1.5 T magnet with 70 cm Open Bore and large FOV up to 50 cm³
- With Deep Resolve, our new game-changing acceleration technology, also planned for 3D²
- Unique BioMatrix Technology
- Turbo Suite acceleration packages for 2D and 3D scans cross body
- Guided workflows with myExam Companion
- Including myExam Implant Suite – solves complexities of scanning patients with implants
- Free-breathing examinations, to master clinical challenges
- Save up to 40%³ energy consumption per year – based on COCIR



¹ Maximum gradient amplitude and slewrate can be applied simultaneously.
² Deep Resolve 3D is currently under development and not commercially available in the US and other countries. Its future availability cannot be ensured.
³ Results were achieved internally using standard and optional features and may vary with no guarantee that the same results can be achieved by the user.

1.5 Tesla

Siemens Healthineers · Magnetom Viato.Mobile

Gradient	Slewrate	Channels
Up to 45 mT / m ^{1,2}	Up to 200 T / m / s ¹	204 × 48

Highlights

- 1.5 T magnet with 70 cm Open Bore designed for an installation in a trailer
- With Deep Resolve, our new game-changing acceleration technology, also planned for 3D³
- Unique BioMatrix Technology
- myExam Companion offers guided workflows
- Free-breathing examinations
- Remote imaging solutions⁴
- Save up to 40%⁵ energy consumption per year – based on COCIR




¹ Maximum gradient amplitude and slewrate can be applied simultaneously.
² XQ gradient is still under development and not commercially available. Its future availability cannot be ensured.
³ Deep Resolve 3D is currently under development and not commercially available in the US and other countries. Its future availability cannot be ensured.
⁴ 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.
⁵ Results were achieved internally using standard and optional features and may vary with no guarantee that the same results can be achieved by the user.

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 Suite¹



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. 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 Suite¹



¹The 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.¹

Oncology

Siemens Healthineers · Magnetom Free.Max RT Edition

Highlights

- Break barriers in MRI for radiation therapy with MAGNETOM Free.Max RT Edition
- Achieve reproducible patient positioning and easy access to MR imaging for radiation therapy with a low table height and large 80 cm bore
- Bypass conventional infrastructure requirements and minimize installation costs through the system's small footprint and quench-pipe-free design
- Achieve fast scans while maximizing image quality thanks to Deep Resolve, the AI-powered image processing technology and benefit from 3D protocols that are optimized for radiation therapy with myExam RT Assist¹
- Acquire detailed images with fewer susceptibility artifacts than traditional MR systems
- Reduce maintenance costs due to a virtually helium-free infrastructure –



requiring neither refill nor controlled rampdown times

¹The name 'myExam RT Assist' has been used since software version syngo MR XA50. In former software versions, it is called 'RT Dot Engine'. 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.

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 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 myExam RT Assist¹ and syngo.via RT Image Suite
- Enable an MR-only RT planning workflow with myExam RT Assist¹ and syngo.via RT Image Suite's MR-based Synthetic CT² feature
- Caption organ motion in abdomen and thorax under free-breathing with automatic respiratory phase sorting with 4D MRI-RT Respiratory Self-Gating



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.

¹The name 'myExam RT Assist' is used starting from software version syngo MR XA50. In former software versions it is called 'RT Dot Engine'.

²MR-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 · 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, markers, holders, phantom etc.)

MRI Coils

NORAS · BI 6 COMFORT Breast Biopsy Coil

Field strength	Channels	System platform
1.5 / 3 T	6	Siemens

Highlights

The BI 6 COMFORT Breast Biopsy Coil is your dedicated MRI coil solution for breast biopsy and diagnostics. It offers great patient comfort due to its more padded patient support and adjustable head rest. Additionally, it adapts flexibly to different breast volumes thanks to its height-adjustable patient positioning. You profit from a high-resolution image quality with great homogeneity and very good illumination of the axilla. Cranio-caudal fixation of the breasts, an integrated LED lighting system plus spacious lateral and medial biopsy access ensure excellent diagnostic imaging and optimized workflows.



MRI Coils

NORAS · ENCOMPASS™ 15-Ch Head Coil

Field strength	Channels	System platform
3 T	15	Siemens

Highlights

The ENCOMPASS™ 15-Ch Head Coil is your dedicated solution for MR-guided planning and follow-up of stereotactic radiosurgery. It offers you high-resolution diagnostic MR imaging of head and neck with outstanding homogeneity. Images may be taken transversal, sagittal, coronal, and tilted while height adjustability and a quick release button on the detachable top coil ensure an easy patient access. Patient anxiety may be reduced thanks to a viewing window and mirror holder. The ENCOMPASS™ 15-Ch Head Coil is optimized for the use with the Encompass™ MR SRS Immobilization System (available via Qfix).



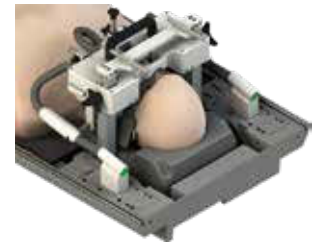
MRI Coils

NORAS · MANDIBULA 15-Ch Dental Coil

Field strength	Channels	System platform
1.5 / 3 T	15	Siemens

Highlights

With the MANDIBULA 15-Ch Dental Coil you benefit from improved diagnostic possibilities in dental area thanks to high-resolution 3D MR imaging of the jaw, teeth, temporomandibular joint, nerves and more. The coil is easy to position, adjustable for each patient and offers you reduced scan times with higher image quality. An optional mirror ensures more comfort for claustrophobic patients. As a special advantage, you may offer your patients a safe, radiation-free examination.



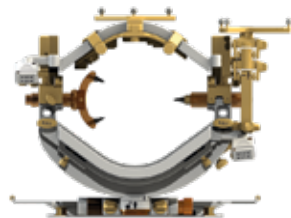
MRI Coils

NORAS · LUCY OR Head Holder & 8-Ch Coil

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

Highlights

With its combination of fixation system and high-quality intraoperative imaging, the LUCY OR Head Holder & 8-Ch Coil is your dedicated application for precise neurosurgical interventions. The dedicated sterile concept and its three-point fixation with integrated force indicator ensure optimized workflow. The removable and height-adjustable lower coil grants excellent access to the field of intervention. Additionally, the OR head holder can be used separately for X-ray, CT imaging as well as angiography.



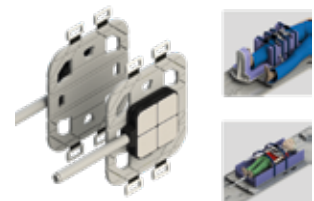
MRI Coils

NORAS · VARIETY 16-Ch Multipurpose Coil

Field strength	Channels	System platform
1.5 / 3 T	16 (2 x 8)	Siemens

Highlights

The VARIETY 16-Ch Multipurpose Coil is your dedicated coil application for various diagnostic uses in orthopedics, pediatrics and veterinary medicine. Its dense 8+8 Ch coil array with high signal-to-noise ratio (SNR) and great acceleration factors is designed for excellent image quality. A slim design and optional dedicated positioning aids enable the flexible examination of anatomically challenging body regions and guarantee optimized workflows.



Accessories / Complementary Systems

allMRI · MRI Cardiopulmonary Resuscitation Board (CPR)

Highlights

- MRI conditional up to 7 Tesla
- Easy installation of the wall bracket without drilling or tools using double-sided high-performance adhesive tape for the wall.
- Dimensions 800 mm x 500 mm x 28 mm, load capacity up to 200 kg, own weight 3,2 kg



Accessories / Complementary Systems

allMRI · MRI Laryngoscope Set

Highlights

- MRI compatible up to 3 Tesla
- Easy connection of blades and handle
- Blade sizes (Mac 1, 2, 3, 3.5 and Miller 00 and 0)
- Fiber optic lighting
- Works with a xenon lamp
- Includes two MRI compatible batteries



Accessories / Complementary Systems

allMRI · MRI Non-Magnetic Fire Extinguisher

Highlights

- All parts are nonmagnetic for use up to 3 Tesla magnetic field
- Portable (stored pressure technology) with 5 kg of carbon dioxide
- Including clamping ring for wall mounting
- Suffocates the fire quickly and effectively
- Gaseous extinguishing agents can be distributed optimally



Accessories / Complementary Systems

allMRI · MRI Safety Stop Sign

Highlights

- The safety stop sign is always visible, unlike other signage which can only be seen when the MRI room door is closed
- Available in English, German, French, Italian and Spanish or adaptable to any language
- The safety stop sign has a diameter of 107 cm and fits a standard 125 cm door opening



Accessories / Complementary Systems

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.

Accessories / Complementary Systems

SCHILLER · MAGLIFE RT-1



Highlights

- 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, SpO₂, NIBP; IBP; etCO₂, anaesthetic agents, O₂, N₂O; spirometry; temperature (optical measurement)
 - Wireless ECG and SpO₂ sensors, even for premature babies
 - 15.6" colour TFT touch screen

Injectors

Injectors
Accessories /
Complementary Systems

Guerbet | 

MED (TRON[®] AG

 **Transatlantic**
Produkte für eine heile Welt

THE INTERCONNECTED SOLUTIONS

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)



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 prefilled 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)

* dependent on type of syringe
 Components and consumables certified by the manufacturer



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Contrast media bottles: benefits of switching to multi-dose

Iodinated contrast media (ICM) enhance CT imaging, but its single-dose packaging is increasingly proving at odds with modern, more sustainable imaging practices. New award-winning research by a radiology resident and faculty members at Vanderbilt University Medical Center in Nashville, Tennessee, proposes a promising alternative: A switch from using single-dose injectable contrast media kits to regulatory agency-approved multi-dose bottles and syringeless injection systems could conserve ICM supplies, mitigate the impact of future shortages of contrast media, minimise waste of residual contrast media remaining in bottles after use by over 70%, reduce plastic polymer waste from syringes and ICM bottles by 93%, and slash costs by up to 35% on medical and pharmaceutical supply spending related to contrast-enhanced CT examinations.

Report: *Cynthia E. Keen*

This simple protocol modification, producing dramatic positive cost-cutting and environmentally sound changes that any radiology department could implement, is analyzed in detail in *Academic Radiology*. Multi-dose syringeless injector systems use two individually exchangeable 500 ml ICM bottles as reservoirs but have similar workflow to standard syringe administration of ICMs.

The global shortage of contrast media caused by Covid-19 production shutdowns in 2022 has stimulated mitigation strategies by hospitals worldwide. And with escalating concerns about the detrimental effects of plastics production, use, and disposal in the environment, healthcare practitioners are beginning to think about ways to develop better, smarter practices.

Led by Jennifer S. Lindsey, MD, the researchers conducted a comparative analysis of ICM waste, plastic waste, and the associated finan-

cial costs for both the single- and multi-dose ICM delivery systems. They estimated 24-hour contrast usage based on two weekdays and a day on the weekend at their hospital, and then extrapolated this data to estimate 365-day usage and average monthly usage.

One fifth of ICM going to waste

The development of advanced CT hardware technology and software allows for protocols that require lesser amounts, leading to increased quantities of unused contrast agent in 100 ml sized packaging. At Vanderbilt, on average 20% quantity of a 100 ml bottle is not used and requires disposal. The radiology department performs an average of 4,078 contrast-enhanced scans per month, or 48,938 scans per year generated by six CT scanners deployed for inpatients, outpatients, and emergency department patients. This equates to an estimated 964,039 ml (964 litres) wasted per year, at a cost of more than US \$103,000 annually.

Switching to a multi-dose delivery system has the potential to reduce ICM waste by 704.7 litres annually, or approximately 73%, according to the authors. They estimate that the capital cost of purchasing multi-dose delivery systems for its six CT scanners would be recouped in six months, and that the monthly savings for the Vanderbilt radiology department would be an estimated US \$41,205.

After calculating the weight of the two sizes of empty bottles with rubber stoppers, the weight of the plastic packaging for each, and the weight of syringes/packaging used for single-dose ICM injection, the researchers determined that single-use plastic polymer waste was approximately 6,019.1 kg per year compared to only 444.3 kg for multi-dose ICM delivery systems, a reduction of 93% of plastic polymer requiring disposal.

The team then compared the cost of purchasing single-use syringes, as well as auxiliary supplies including tubing, transfer sets, and saline. They estimated total cost savings to be US \$587,256 per year, less the capital costs to purchase multi-dose syringeless injector systems as needed.

Positive impact on finances and the carbon footprint

Other benefits include reduction in packing and shipping costs to a manufacturer's recycling facility. GE Healthcare, which built the first recycling facility for ICM iodine in Norway in 2006, has added more to serve its global clientele, but shipping costs can still be substantial and may be prohibitive for hospitals that are not located close to them.

'500 ml plastic ICM bottles have the lowest environmental impact compared to glass bottles and smaller plastic bottle sizes for greenhouse gas emissions, resource consumption, and cumulative energy demand,' the researchers write.

'The Vanderbilt radiology department has been very supportive of this research,' Lindsey says. 'In fact, our preliminary analyses showed such a positive financial and environmental impact that our radiology department decided to purchase the multi-dose contrast injectors for a subset of our CT scanners, and we are currently conducting a follow-up study to prospectively measure their impact on waste.'

The Association of University Radiologists (AUR) awarded the authors its 2023 Memorial Award, honoring the most original and outstanding research article written by medical students, 1st year Fellows and radiology residents. Lindsey presented the findings at the 2023 AUR annual meeting and has received numerous inquiries about them. 'This research shows it is possible for new technologies, in this case, syringeless multi-use injector systems, to overcome the upfront capital investment and have a significant impact, both financially and on our carbon footprint,' she said.



Syringeless multi-dose injector system
Image source: Ulrich Medical/GE Healthcare


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
- 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 compliance 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
- 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 AG · 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 AG · Accutron CT-D Vision

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

Highlights

- New design for more comfort with improved readability 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 mammography; leading to potentially increased revenue



Injectors

Medtron AG · 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 AG · 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 boli¹ 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 AG · Accutron MR		
Application MR	Pressure 21 bar	FlowRate 0.1 – 10 ml
<p>Highlights</p> <ul style="list-style-type: none"> • 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 examination rooms 		
		

Injectors

Medtron AG · Accutron MR3		
Application MR	Pressure 21 bar	FlowRate 0.1–10 ml/s ¹ / 000.1–30 ml/s ²
<p>Highlights</p> <ul style="list-style-type: none"> • 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 		
		
<p>¹ CM/NaCl ² Infusion pump</p>		



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Accessories / Complementary Systems

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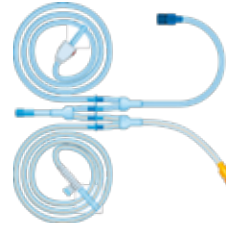
Highlights

- 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 12h

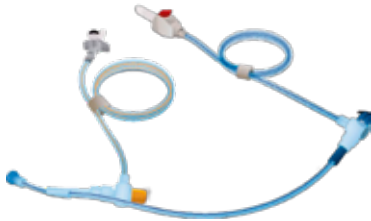


Highlights

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 24h



Highlights

24h 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 12/24h



Highlights

Make your syringe injector safe for 12h or 24h 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.

Transatlantic – your reliable partner for transfer systems. Quality Made in Germany.

Interventional Systems

Bi-Plane
Multi-Modality Suites
Single Plane
Surgical Flat Panel C-Arms
Surgical II-C-Arms
Accessories /
Complementary Systems



Canon
CANON ELECTRON TUBES & DEVICES CO., LTD.

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TECHNOLOGIES

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 ziehm imaging

SIEMENS
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 **STEPHANIX**
MEDICAL IMAGING SOLUTIONS

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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 neuro-radiology 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	a-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: 261mm x 287mm (1,024 x 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
- Detector: Crystalline silicon flat detector with 39 cm diagonal entrance plane/ c-Si / CsI



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 x 20 (1,024 x 1,024 px), 184 µm
 - 30 x 40 (1,920 x 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



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

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.

Enhance your angio suite with our latest move and open up new opportunities. ARTIS icono ceiling with Xpand will allow you to use space you didn't know you had. You will be able to move around easily during



procedures without having to move any equipment first.


Single Plane

Siemens Healthineers · ARTIS icono floor

Power 100 kW	Detector a-Si/CsI	Pixel size 154 µm
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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 100 kW	Detector a-Si/CsI	Pixel size 184 µm
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Highlights
ARTIS one Edition X offers the right combination of flexibility and features for optimally treating cardiovascular patients.


- Mid-sized 30" flat detector (1560 x 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 m²



Single Plane

Siemens Healthineers · ARTIS pheno

Power 100 kW	Detector a-Si/CsI	Pixel size 160 µm
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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 crystalline 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
- Wide-space C-arm – with a clearance of 95.5 cm

Single Plane

Siemens Healthineers · Artis Q.zen ceiling

Power 100 kW	Detector c-Si / CsI	Pixel size 160 µm
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Highlights
The Artis Q.zen ceiling-mounted system enables clinicians to care with greater ease, precision and flexibility.

- Detector: 261 mm × 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
- Detector: Crystalline silicon flat detector with 39 cm diagonal entrance plane/ c-Si/CsI


Single Plane

Siemens Healthineers · Artis Q.zen floor

Power 100 kW	Detector c-Si / CsI	Pixel size 160 µm
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Highlights
The Artis Q.zen floor-mounted system enables clinicians to care with greater ease, precision and flexibility for small rooms.

- Detector: 261mm × 287mm (1,024 × 1,024 px), 160 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
- Detector: Crystalline silicon flat detector with 39 cm diagonal entrance plane/ c-Si / CsI




Single Plane

Siemens Healthineers · Artis zee ceiling, Artis Q ceiling

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

Artis zee multipurpose is designed to meet the demands of interventional radiology and fluoroscopy. The optional 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
- 3 D acquisition rate up to 75 f/s



Single Plane

Technix · Quantic

Power 80 kW	Detector a-Si/CsI	Pixel size 159 μm
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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 2 kW	Detector CsI	Pixel size 150 μm
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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 5 – 20 kW	Detector CsI	Pixel size 154 – 205 μm
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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 ultrasharp 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 10 / 20 / 25 kW	Detector a-Si	Pixel size 145 – 179 μm
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Highlights

- Innovative 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 · Radius EVO

Power 5/20 kW	Detector 21 x 21 cm / 30 x 30 cm	Pixel size —
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Highlights

- 5 kW or 20 kW power
- With 30 x 30 or 21 x 21 cm Flat Panel
- 20 kW unit, liquid-cooled, granting more efficient heat dissipation
- Removable anti-scatter grid
- C-arm movements identified by different colours
- User friendly Touch Screen control console, on board, for all the operative parameters with $\pm 90^\circ$ rotation and $\pm 20^\circ$ inclination
- The monitor trolley is equipped with a solo 27" High Resolution monitor digitally split into live and reference monitors which can be rotated of $\pm 180^\circ$. Equipped, as well, with a 15.6" touch screen panel allowing



the operator to set all the needed parameters, handle images and adapt software functions in real time.


Surgical Flat Panel C-Arms

Intermedical · Radius XP with flat panel

Power 30 kW	Detector a-Si/CsI	Pixel size —
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Highlights


- Large Power reserve of 30 kW
- Boost up to 250 mA
- Excellent 1,536 x 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 are motorized
- New Dual Cooling System for Housing and Generator
- Dual Power System: power reserve system
- Available with FPD 30 x 30 or 21 x 21 cm



Surgical Flat Panel C-Arms

Siemens Healthineers · CIARTIC Move

Power 25 kW	Detector 30 cm x 30 cm (12" x 12")	Pixel size 152 μ m
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Highlights

CIARTIC Move is a new class of self-driving mobile 3D C-arm that addresses the challenges of staff shortages and overloaded surgical teams in the OR.


- Move automatically-Accelerate* and standardize 2D and 3D imaging in the OR.
- Move independently-Avoid idle times and delays in the OR.
- Move effortlessly-Reduce the physical burden of working in the OR.

* Proven in a cadaveric setting with 10 human specimen, with orthopedic trauma surgeons, compared with Cios Spin

Surgical Flat Panel C-Arms

Siemens Healthineers · Cios Alpha

Power 12/25 kW	Detector 20 x 20 / 30 x 30 cm	Pixel size 152 μ m
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Highlights


- Up to 25 percent more coverage¹ 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 unit², electromagnetic brakes, and a wireless footswitch²

¹ Compared to conventional 33 cm image intensifiers
² Option

Surgical Flat Panel C-Arms

Siemens Healthineers · Cios Flow

Power 2.3 kW	Detector 20 x 20 / 30 x 30 cm	Pixel size 152 μ m
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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 2.3 kW	Detector 21 x 21 cm	Pixel size 205 μ m
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Highlights

- Accuracy – See more with Retina FD technology and a larger field of view that lets you improve imaging accuracy¹
- 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 12 / 25 kW	Detector 30 x 30cm	Pixel size 152 µm
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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 · Omniscope DReam

Power 5 kW or 20 kW	Detector 21 x 21 cm or 30 x 30 cm	Pixel size 154 µm
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Highlights

- Orthopaedic: Hip and femur nailing, Tibia and Humerus fractures, Pelvis
- Head & Column: Spine fixations, Pain treatment, Neuromodulation Hyper-physiectomy, Laser nucleolysis.
- Thorax: Pacemaker connections, Electro-Physiology Biopsies, Ventricular-abdominal
- Abdomen: Percutaneous nephrolithotomy (PCNL), Urethroscopy, Cystoscopy, Cholangiography, E.R.C.P
- Vascular peripheral: Femoral artery, Popliteal artery, Endarterectomy Control of bypasses
- Vascular abdominal: Abdominal Aortic Aneurysm procedures (AAA)
- Vascular cerebral: Carotids, Intracranial aneurysm control
- Cardiac: Angioplasty, P.C.I.
- Advanced functions:
 - APR, post-processings, DSA, metal correction
 - DICOM connectivity
 - Large C-Arm depth and wide orbital rotation



Surgical Flat Panel C-Arms

Stephanix · Omniscope DReam S

Power 4 or 5 kW	Detector 21 x 21 cm or 30 x 30 cm	Pixel size 200 µm
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Highlights

- Orthopaedic / Urology / Cerebral / Thoracic / Pain therapy / Peripheral vascular using DSA function – Interventional Radiology
- 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 x 21 cm / 30 x 30 cm
- Optional patient table



Surgical Flat Panel C-Arms

Swissray · Smart C

Power Battery powered	Detector CsI CMOS	Pixel size 99 µm
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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 5 / 20 kW	Detector 21x21 cm / 30x30 cm	Pixel size 205 µm / 194 µm
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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 Flat Panel C-Arms

Technix · TCA 7 Compact

Power 3,5 kW / 5 kW	Detector 21 x 21 / 30 x 30	Pixel size 200 µm
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Highlights

- Fixed (3,5 kW) or rotating (5 kW) anode
- Compact dimensions and wide orbital rotation
- Integrated display and processing station
- Intuitive touchscreen user interface with image preview
- Removable grid and motorized filters for pediatric applications
- CD/DVD and USB for image exporting
- Full DICOM connectivity




Surgical Flat Panel C-Arms

Villa Sistemi Medicali · Arcovis DRF-C R30

Power 5 kW	Detector Amorphous Silicon	Pixel size 200 µm
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Highlights

- Mobile C-arm system with 30 x 30 cm Flat Panel Detector and rotating anode
- 5 kW Generator power
- Compact, lightweight design for easy movements
- Amorphous Silicon detector, 30 x 30 cm FPD (21 x 21 cm available)
- Removable anti-scatter grid reducing paediatric exam doses
- Dual laser localizer on monobloc and FPD for fast/precise positioning*
- Wired adjustable view station, 27" monitor*
- Wireless adjustable view station, 24" monitor*



- Active Cooling for reliable long-term operations*
- NFC technology for fast login and unit setup

* optional


Surgical Flat Panel C-Arms

Villa Sistemi Medicali · Arcovis DRF/C S21

Power 4 kW	Detector Amorphous Silicon	Pixel size 200 µm
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Highlights

- Mobile C-arm system with Flat Panel Detector 21 x 21 cm and stationary anode for surgical imaging
- Generator power of 4 kW
- Compact and lightweight design for easy and swift movements in any direction
- Amorphous Silicon detector with flat panel of 21 x 21 cm
- Removable anti-scatter grid reducing dose in paediatric exams
- Dual laser localizer both on monobloc and FPD for fast and precise positioning on target area*
- Wired adjustable view station with 27" monitor* (optional)




Surgical II-C-Arms

GMM Group · Symbol R9 - Mobile C-Arm system

Power 5/10 kW	II format 9"	CMOS camera 1kx1k
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Highlights

- Mobile C-Arm system with high frequency monobloc generator and 9" 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 Flat Panel C-Arms

Ziehm · Solo FD

Power 2.4 kW	Detector CMOS / IGZO	Pixel size 100 µm / 135 µm / 150 µm
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Highlights

With its all-in-one design, the Ziehm Solo FD is one of the most compact C-arms on the market for even the smallest treatment scenarios. The premium variant Ziehm Solo FD CMOS delivers excellent image quality and offers a large variety of features to cover a wide range of applications.

It is also available with a 21 cm x 21 cm and a 31 cm x 31 cm IGZO flat-panel. The bigger detector size allows to cover larger anatomical regions, such as the entire hip in orthopedics.

Additionally with Ziehm Solo FD lite, there is a configuration with a 21 cm x 21 cm flat-panel and a limited option package to serve price-sensitive markets.

- Detector size: 21 cm x 21 cm (CMOS); 21 cm x 21 cm / 31 cm x 31 cm (IGZO)



Surgical Flat Panel C-Arms

Ziehm · Vision FD


Power 2.4 kW	Detector CMOS / a-Si / IGZO	Pixel size 100 µm / 150 µm
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Highlights

Now in the upgraded CMOSline*, the Ziehm Vision FD features an enhanced imaging chain for excellent image quality and – thanks to the Advanced Active Cooling – is designed for continuous use.

In addition, finely tuned workflows help to optimize patient outcomes and further increase productivity. The Ziehm Vision FD is also available with a new 21 cm x 21 cm IGZO and a 31 cm x 31 cm a-Si flat-panel. The bigger detector size allows to cover larger anatomical regions in orthopedic and vascular surgery.

- Detector size: 21 cm x 21 cm (CMOS) · 31 cm x 31 cm (a-Si / IGZO)



* CMOSline represents a system configuration that is based on a Ziehm Imaging CMOS flat-panel detector.

Surgical Flat Panel C-Arms

Ziehm · Vision RFD

Power 25 kW / 30 kW	Detector CMOS / a-Si / IGZO	Pixel size 100 µm / 150 µm / 194 µm
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Highlights

The Ziehm Vision RFD is equipped with a powerful generator that penetrates even large anatomy. In addition, Advanced Active Cooling facilitates long and demanding procedures and the intuitive Ziehm Usability Concept* helps surgeons ensure consistently high clinical standards. This impressive feature lineup make the systems ideal for challenging interventions.

- Detector size: 31 cm x 31 cm / 21 cm x 21 cm (CMOS) · 30 cm x 30 cm (a-Si) · 31 cm x 31 cm (IGZO)



* The Usability Concept includes a variety of hard- and software features. Due to regulatory reasons the availability of each feature may vary. Please contact your local Ziehm Imaging sales representative for detailed information.

Surgical Flat Panel C-Arms

Ziehm · Vision RFD 3D

Power 25 kW / 30 kW*	Detector CMOS / a-Si	Pixel size 100 μm / 194 μm
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Highlights

Bundling 2D and 3D functionality for greater intraoperative control, the Ziehm Vision RFD 3D reduces the need for postoperative CT scans and costly corrective surgeries. It is equipped with Ziehm Iterative Reconstruction to minimize fan and metal artifacts in 3D reconstruction, so far only known from CT imaging. This makes the Ziehm Vision RFD 3D ideal for high-end orthopedic, trauma and spinal interventions as well as for demanding multidisciplinary use.

- Detector size: 31 cm × 31 cm (CMOS) · 30 cm × 30 cm (a-Si)

* 30 kW generator is available in combination with dedicated cardio packages.



Surgical Flat Panel C-Arms

Ziehm · Vision RFD Hybrid Edition

Power 25 kW / 30 kW	Detector CMOS / a-Si	Pixel size 100 μm / 194 μm
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Highlights

The Ziehm Vision RFD Hybrid Edition* is a powerful 30 kW** mobile C-arm that is also available with CMOS imaging technology to successfully perform during highly demanding interventional cardiovascular procedures – flexible and everywhere – at any time. With its zero room preparation, the comprehensive mobile hybrid solution easily takes your OR to the next level. Plug in your system and start your hybrid procedure.

- Detector size: 31 cm × 31 cm / 21 cm × 21 cm (CMOS) · 30 cm × 30 cm (a-Si)

* Ziehm Vision RFD Hybrid Edition represents a group of optional hardware and software that creates an option package on the device named Ziehm Vision RFD.

** 30 kW generator is available in combination with dedicated cardio packages.



Surgical II-C-Arms

Siemens Healthineers · Cios Select

Power 2.3 kW	II format 23 cm	CCD-matrix 1 k ²
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Highlights

- Accuracy – Acquire sharp, balanced images with smart image quality and dose algorithms, noise reduction, metal correction, and dedicated organ programs
- Productivity – Streamline your workflow with easy system and patient positioning enabled by the generous C-arm geometry, a wireless footswitch, and a clearly designed control panel
- Reliability – Profit from proven excellence and system availability above 99.8%¹

¹ Statistical evaluation of installed base



Surgical II-C-Arms

Villa Sistemi Medicali · Arcovis 3000 S/R

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



Accessories / Complementary Systems

Canon Electron Tubes & Devices · Angio Tube assembly

Power 100 kW	Capacity 3 MHU (Anode Heat Capacity)
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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



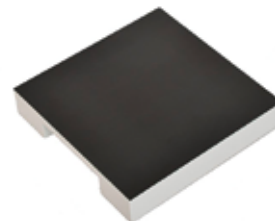
Accessories / Complementary Systems

Canon Electron Tubes & Devices · FDX2121F

Size 21 x 21 cm	Detector type CsI / TI	Pixel size 205 μm
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Highlights

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



Accessories / Complementary Systems

Canon Electron Tubes & Devices · LM-Angio Tube

Power
100 kW

Capacity
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

IMD Generators · X-ray Monobloc, Skin Family

Highlights

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



Artificial Intelligence



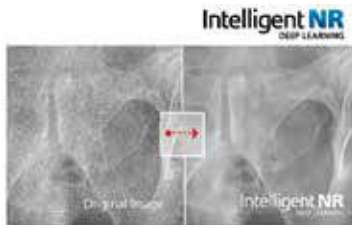
Canon
CANON MEDICAL COMPONENTS EUROPE B.V.

FUJIFILM

SIEMENS
Healthineers

Artificial Intelligence

Canon · Intelligent Noise Reduction



Highlights

Intelligent NR is Canon's AI image processing option, developed using machine learning and an existing clinical image database to create a neural network for deep-learning. By identifying the characteristics of noise and applying the pre-learned neural network, a noise-reduced image is created. Key Features:

- High quality diagnostic images with reduced noise
- No noticeable loss of anatomical detail
- Potential dose reduction
- Only available on NE 3.10 and higher; x10 & Elite series detectors

Artificial Intelligence

Fujifilm · FDR EX-M1 AI box



Highlights

Fujifilm expands AI CAD software integration across its portfolio¹

- 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, Qure.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 · AI Orchestrator

Highlights

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

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.

EUROPEAN HOSPITAL

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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



RIS

medigration · RIS / PACS

**Highlights**

Our RIS / PACS solutions are designed for multisite and manufacturer-independent networks. The WinRadiolog RIS product portfolio implies the whole patient management for your medical institution. Our PACS product portfolio comprises a proven DICOM archive, an intuitive operating reporting 3D ImageVision workstation, teleimaging and mobile solutions, patient CD system dosemanagement software solution.

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 · EasyDoseQM

**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 a modular, software platform for managing the extended diagnostic imaging workflow and reporting needs of healthcare organizations, through continuously developing informatics technologies. SYNAPSE Value has been built to cover complex clinical and administrative needs. Structured reports, with images and data, are made available through the creation of customisable templates.

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 applications are based on an interoperable, system and vendor-neutral platform to enable cross-organizational health data exchange. This facilitates close collaboration and communication across care teams as well as with patients, aiming at achieving better and more timely outcomes:

- Accelerate productivity by providing physicians summarized and specific information at their fingertips
- Facilitate interactions between care teams along with their patients for timely and precise decision-making
- Empower patients to actively engage in their own healthcare to enable meaningful participation

Business Intelligence

Siemens Healthineers · teamplay Contrast



Highlights

teamplay Contrast* provides easy access to contrast data to support the quality assurance process for monitoring overall consumption and injected volumes. teamplay Contrast will display data for continuous contrast performance evaluation for any injector type or vendor, which allows efficient contrast data analysis. The solution gives an overview of the contrast performance of the protocols in use by type and target region.

* 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 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 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 performance management applications



Highlights

The teamplay performance management applications support you in improving your business performance outcomes by enabling you to make quick and well-informed decisions, and offering a clear overview of your clinical and operational data.* The applications provide you with centralized access to operational, technical, and clinical data to help you optimize your operations and to deliver a 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 Protocols



Highlights

teamplay Protocols* is a protocol management software that facilitates remote access to your scanners, thus enabling central protocol management to ensure standardization throughout your whole organization and reduce commuting in between locations.

- 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 can be used with eligible Siemens Healthineers 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 transparency to 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

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 software uses server-side technology to display radiology, mammography, and specialty department imaging on one zero-download viewer for enhanced content access and standardized workflow. The vendor-neutral architecture and extensive integration capabilities provide immediate access to analyses and reports, while robust AI applications bring progressive 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

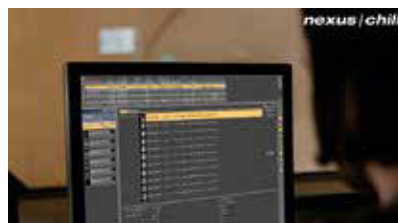
Image Information Systems · iQ-SYSTEM PACS

**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 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

- Makes multimedia viewing possible regardless of platform and device
- 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
- Enables deep integration of AI providers
- Provides a basis for bidirectional networking via CHILI's own portals
- Improves IT security by own access gateway in DMZ

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 Carbon Space



Highlights

Syngo Carbon Space is the new unified interface for Syngo Carbon users.

- Access all relevant imaging data, diagnostic software elements, and tools in one workspace
- Access advanced imaging software for 2D, 3D, and 4D image reading to improve outcomes
- Utilize semi-automatic tools and technology (ALPHA) to help increase efficiency
- Translate image findings into coded data for real-time transfer into reports and sharing across systems
- Quickly generate structured reports and actionable results

VNA

Fujifilm · Synapse VNA



Highlights

SYNAPSE VNA, best in KLAS 2023, 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 software solution supports encounters-based workflows by automating content ingestion, associating it with the patient record, and making it available to those who need it.

VNA

Nexus/Chili · Web



Highlights

- Multi-media (DICOM, jpeg, avi, PDF, ...)
- Perfectly suitable 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-DI-COM). 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 is Siemens Healthineers' software for vendor independent remote scanning. With syngo Virtual Cockpit, healthcare institutions can transform care delivery and achieve a higher level of standardization and diagnostic consistency, with techs serving patients independent of location.

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

Pathology

Fujifilm · SYNAPSE Pathology

**Highlights**

SYNAPSE Pathology software is a comprehensive pathology solution, which is vendor-agnostic and can be integrated with Laboratory Information Systems (LIS / LIMS), and digital slide scanners. SYNAPSE Pathology supports LEAN workflow and collaboration. The solution allows pathology departments to move from analogue to digital at their own pace, and facilitates the integration of any scanner or AI vendor, via an open API, throughout the life of the solution. The platform was designed by pathologists for pathologists and includes 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 software is the vendor-neutral advanced visualization platform, including more than 50 clinical modules. The advanced pre-surgical planning tools allow surgeons and clinicians to plan the most efficient, least invasive surgical activities, supporting clinical teams to provide the best possible patient outcomes.



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

medigration · ImageVision

**Highlights**

- Easy to use, high performance examination and analysis system for radiological routines
- Access to all images (including previous images) within seconds
- Unique and hierarchical data compression without any loss
- Individually configurable hanging protocols
- Independent individual scaling of your interfaces

Reading

Nexus/Chili · Diagnost

**Highlights**

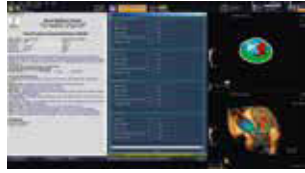
- Universal PACS Viewer, Independent of modality
- CT, MR, CR, DR, PET, PET-CT, US, XA, ...
- Mammography
- Radiotherapy
- Powerful hanging protocols
- Independent of operating system
- Integrated teleradiology
- Extensible by other applications
- HIS / RIS integration
- Consultation functionalities
- 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, anytime¹
- 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 multimodality 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

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

medigation · MultiPortal

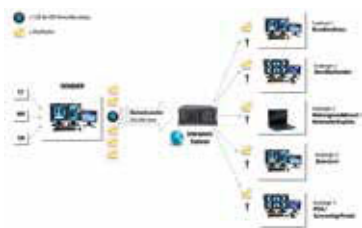


Highlights

- To connect your referring practices
- Efficient and encoded transferral of image data
- Secure, user-defined access control
- No elaborate VPN necessary
- Fast display of images and findings as PDF or SR
- For PC / MAC: Intuitive, web-based tool, to be launched without any installation via any standard browser

Portal Solutions

medigation · webConnect



Highlights

- Uncomplicated exchange of image data via the internet
- Highly cost effective since only the actual transferred data is calculated
- No VPN connection necessary
- Images and results can be called up within seconds due to intelligent data compression
- Total security by means of 256 bit AES encryption

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 · Nexus / Portal

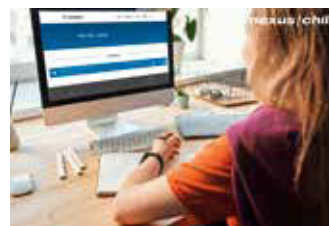
**Highlights**

Patient Empowerment even before hospital admission, during treatment and discharge.

- Modular system integrates with primary systems
- Online appointments and digital forms for patient info
- Upload option for patients (DICOM images and documents)
- Digital provision of treatment info and results
- Can serve as patient intranet and integrate CMS content
- Works on smartphones and desktops; no installation by patient

Portal Solutions

Nexus/Chili · Patient Portal (CD replacement)

**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 StrISchV and DIN 6868-159
- Works with any PACS

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

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 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

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

medigation · MultiPortal



Highlights

- To connect your referring practices
- Efficient and encoded transferral of image data
- Secure, user-defined access control
- Fast display of images and findings as PDF or SR
- No elaborate VPN necessary
- For tablets & smartphones: Installation and updates easily via AppStore

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 Systems

BMS Informationstechnologie · EasyDoseQM

**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. EasyDoseQM has been developed with the end-user in mind.

Dose Management Systems

Fujifilm · Synapse Dose

**Highlights**

SYNAPSE Dose is a comprehensive software system for monitoring and managing patient radiation exposure across different imaging modalities. It supports the optimization of radiological procedures and acquisition protocols. It is a tool for clinical audit support, and 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, Hospital Information Systems (RIS, PACS, EMR...) and collects all relevant data about contrast media usage, patient history and injector activity. Contrast&Care facilitates identification of at-risk patients, eases the traceability of contrast media and provides analytical tools that help imaging centers optimizing contrast media utilization.

Dose Management Systems

Guerbet · Dose&Care

**Highlights**

Dose&Care is a state-of-the-art vendor-neutral radiation dose monitoring solution, which allows documenting patient dose history, understanding the reasons for excessive exposure and monitoring dose data at center level. It provides the means to remain compliant with an ever-evolving regulation while supporting good professional practices 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

medigration · Domako

**Highlights**

Domako. Simple software solution for dose management (DM). Collects, classifies and evaluates dose data; graphs them. Efficiently control DM process. Optimize protocols of modalities purposefully. Observes dose guidelines of BFS. Holistic/detailed, be it in terms of individ. protocols, pat. groups or individuals. Fulfills function of an autom. X-ray book. Enables to react proactively to deviations. Web-based on-premises system. Can be integrated into other software systems.

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

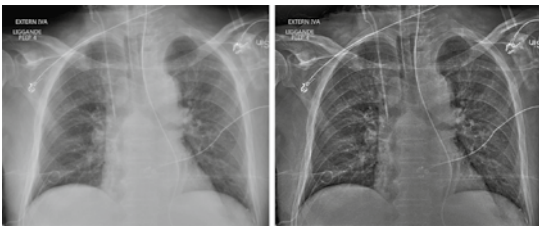
teamplay Dose* simplifies radiation dose management for your entire imaging fleet by providing you with easy access to radiation dose data in order to reduce dose and facilitate compliance to dose management requirements.

- 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



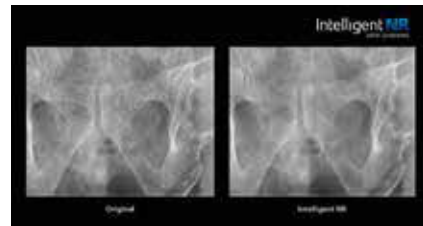
Highlights

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 areas
- 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)



Highlights

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
Accessories /
Complementary Systems

FUJIFILM

medigration
The Digital Company
ein Unternehmen der bender gruppe



IMS
Giotto

Planmed

PTW
THE
DOSIMETRY
COMPANY

SIEMENS
Healthineers

IMD
GENERATORS

VILLA

Tomosynthesis

Fujifilm · Amulet Innovality

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

- In addition to Amulet Innovality features, Harmony comes with:
- Comfort Compression which allows to reduce compression after reaching the target compression, this is recognised as being significantly less painful compared to normal compression.
 - 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
 - Tomosynthesis biopsy, vertical and lateral approach
 - CEDM; energy subtraction for mammography
 - Dual angle tomosynthesis for dose efficient with maximum diagnostic performance.
- Harmony artwork has been designed by Émilie Cardinale.



Tomosynthesis

Fujifilm · Amulet Sophinity

Pixel size 50 µm / 100 µm / 150 µm	Scan angle 15° / 40°	Scan time 5s / 12s
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Highlights

New light and elegant design with the focus on patient, user friendliness and new tomosynthesis reconstruction for better visibility of small details. Beside the soft compression lever the system uses Comfort Compression to minimise the discomfort during the exam. The new Tomosynthesis acquisition & reconstruction offer maximised sharpness for both angles of Tomosynthesis and synthesized 2D images. The updated Dynamic Visualisation image processing offers optimised display of the new Tomosynthesis. CEDM; energy subtraction for mammography. Tomosynthesis biopsy, vertical and lateral approach coming soon.

Tomosynthesis

IMS Giotto · GMM Group – Giotto Class

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

- Giotto Class is an advanced and innovative three dimensional breast imaging technology able to perform
- Digital mammography and Breast Tomosynthesis
 - Synthesized 2D image generated from 3D dataset
 - Stereotactic biopsy in prone or upright position
 - Integrated Real time biopsy tissue cores imaging
 - Contrast-Enhanced Mammography

The system is open to new AI application and sports algorithm for estimating the volumetric breast density according to the 5th edition of ACR BI-RADS Atlas.

IMS Giotto is a company of GMM Group



Tomosynthesis

Planmed Oy · Clarity 3D

Pixel size 83 µm	Scan angle 15°	Scan time 13 s
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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 TomoMarker technology to enable sharp and artifact free images
- Intuitive Planmed Clarity Flow touch screen based user interface



Tomosynthesis

Siemens Healthineers · MAMMOMAT B.brilliant

Pixel size 85 µm	Scan angle 50°	Scan time 5 sec
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Highlights

- MAMMOMAT B.brilliant – the next generation of 3D mammography
- Featuring PlatinumTomo, a completely new breed of tomosynthesis image acquisition technology
- 50° Wide-Angle Tomosynthesis and a scan time of just 5 seconds¹
- Unprecedented image quality, excellent in-plane resolution, best in-depth resolution², and customizable image impression
- A system design focused entirely on patients and radiographers
- Convenient decision processes for all mammography-based diagnostic applications



¹ For average breast size of 5 cm, 50/50% glandular/adipose tissue

² Maldera et al. (2016): Digital breast tomosynthesis: Dose and image quality assessment. Physica Medica, pp. 1-12

MAMMOMAT B.brilliant is not commercially available in all countries. Due to regulatory reasons its future availability cannot be guaranteed. Please contact your local Siemens Healthineers organization for further details. 1 Data on file. 2 In comparison to MAMMOMAT Revelation.

MAMMOMAT B.brilliant

Exclude the maybes.



MAMMOMAT B.brilliant is breaking new ground in breast imaging. It aims to offer uncompromised cancer detection for women who want straightforward answers. Experience higher accuracy^{1,2}, easy workflows¹, and efficient diagnostic processes – in a next-generation mammography system that was developed with women’s wellbeing in mind.

SIEMENS
Healthineers



Tomosynthesis

Siemens Healthineers · MAMMOMAT Revelation

Pixel size 85 µm	Scan Angle 50°	Scan time 25 s
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Highlights

- Digital mammography system for screening and diagnostics
- Make anatomical details clearly visible with our unique 50° wide-angle – in breast 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



Tomosynthesis

Villa Sistemi Medicali · Melody IIID TS 3.0

Pixel size 85 µm	Scan range 15° / 24° / 50°	Scan time 2.5 s / 4 s / 7.7 s
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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

Villa Sistemi Medicali · Melody IIID C 3.0

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



Digital Mammography

IMS Giotto · GMM Group – Giotto Class 40000

Pixel size 85 – 83 µm	Detector size 24 x 30 cm	Detector type a-Se
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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 system is open to new AI application and sports algorithm for estimating the volumetric breast density according to the 5th edition of ACR BI-RADS Atlas. The operating and interventional modalities include:
- Digital mammography and Breast Tomosynthesis
 - Synthesized 2D image generated from 3D dataset
 - Combo: Tomosynthesis & digital mammography



- High precision tomo guided or stereotactic biopsy
 - Contrast-Enhanced Mammography
- IMS Giotto is a company of GMM Group

Digital Mammography

IMS Giotto · Giotto Class Smartfinder

Pixel size 85 – 83 µm	Detector size 24 x 30 cm	Detector type a-Se or a-Si
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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 biopsy
 - Combination of traditional stereo technique and tomo biopsy
 - Integration with accessory for realtime 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 83 µm	Detector size 24 x 30 cm	Detector type a-Si
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Highlights

- Intelligent Planned 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

Planned Oy · Clarity S

Pixel size 83 µm	Detector size 24 x 30 cm	Detector type a-Si
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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 83 µm	Detector size 23 x 30 cm	Detector type CsI
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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 85 µm	Detector size 24 x 30 cm	Detector type a-Se or a-Si
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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



Biopsy Units

IMS Giotto · Giotto Flexible

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

Flexible 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

Villa Sistemi Medicali · Melody III 3.0

Power 20 – 35 kV	Anode Mo	Filter Mo / Rh
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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 x 24 / 24 x 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

medigration · MammoView



Highlights

- Extremely easy to use and manage
- Direct findings in the image
- CAD support (optional) and a second view area to examine US and MRT images
- Hanging protocols can be configured individually to automate your routine workflow
- Outstanding image quality (2,048 greyscale)
 - Default display protocol
 - Hi-Res displays or mixed setups
 - Digital dictation integration
 - Dedicated keypad
 - WebClient

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%² and up to 10%³ increased accuracy in diagnosis
- 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.

² Lauritzen AD, Rodriguez-Ruiz A, von Euler-Chelpin MC, Lyng E, Vejborg I, Nielsen M, Karssemeijer N, Lilloholm M. An Artificial Intelligence-based Mammography Screening Protocol for Breast Cancer: Outcome and Radiologist Workload. Radiology. 2022 Apr 19:210948

³ van Winkel SL, Rodriguez-Ruiz A, Appelman L, Gubern-Mérida A, Karssemeijer N, Teuwen J, Wanders AJT, Sechopoulos I, Mann RM. Impact of artificial intelligence support on accuracy and reading time in breast tomosynthesis image interpretation: a multi-reader multi-case study. Eur Radiol. 2021;31:8682-8691.

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°, 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 aluminium 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 · QRM Breast CT QA Phantom



Highlights

- Suitable for image quality check-ups and constancy testing of Breast CT and other Cone-Beam CT Systems
- Determination of spatial resolution in any direction (3D-MTF)
- 4 different targets (air, -3 % contrast, +3 % contrast and bone)

Accessories / Complementary Systems

PTW · QRM MAM Phantoms



Highlights

- Technician and operator sets for prone mammography stereotactic biopsy systems
- For acceptance and constancy tests
- Designed in accordance with DIN 6868-163



Your guide to imaging technology and informatics in Europe





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R / F Systems

DR
Bucky
DR Detectors
CR
Flatpanel Fluoro
Fluoroscopy
Mobile DR
Portable DR
Mobile X-ray
Business Intelligence
Accessories /
Complementary Systems



mindray

medigration
The Digital Company
ein Unternehmen der bender gruppe

 **OR Technology**

DEL MEDICAL

SIEMENS
Healthineers

 **STEPHANIX**
MEDICAL IMAGING SOLUTIONS

SWISSRAY 
TECHNOLOGIES

Canon
CANON MEDICAL COMPONENTS EUROPE B.V.

 **TECHNIX**


VILLA


DR

Del Medical · FMT

Power	Detector Type	Pixel size
32 / 40 / 50 / 65 / 80 kW	GOS / Csl	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
- Fixed and rotating detector trays with in-tray charging capability



• Flat-panel Detector options:
E24C: 24x30 Wireless Cesium
E14C: 35x43 (14x17) Wireless Cesium
E17C: 43x43 (17x17) Fixed Cesium
LL: 43x107 (17x42) wireless GOS or Csl


DR

Del Medical · FMT18M

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

Highlights

- Tube lock control for 180 degree column rotation
- 10.4-inch tube mounted touch-screen 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
- Slender design wallstand with ergonomic handle and electro-magnetic locks
- Fixed and rotating detector trays with in-tray charging capability



• Flat-panel Detector options:
E24C: 24x30 Wireless Cesium
E14C: 35x43 (14x17) Wireless Cesium
E17C: 43x43 (17x17) Fixed Cesium
LL: 43x107 (17x42) Wireless available in Gadox or Cesium


DR

Del Medical · FMT18T

Power	Detector type	Pixel size
32 / 40 / 50 / 65 / 80 kW	GOS / Csl	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
- Elevating table with four-way float, table-top mounted controls and 363 kg patient weight limit
- Slender design wallstand with ergonomic handle and electro-magnetic locks
- Fixed and rotating detector trays with in-tray charging capability




DR

Del Medical · FWFC

Power	Detector type	Pixel size
32 / 40 / 50 / 65 / 80 kW	GOS / Csl	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
- Flat-panel Detector options:
E14C: 35x43 (14x17) Wireless Cesium;
E17C: 43x43 (17x17) Fixed Cesium
- Fixed and rotating detector trays with in-tray charging capability




DR

Del Medical · OTC18M

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

Highlights

- Ceiling mounted tube crane with easy and precise manual positioning
- 10.4-inch tube mounted touchscreen 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
- Flat-panel Detector options:
E24C: 24x30 Wireless Cesium;
E14C: 35x43 (14x17) Wireless Cesium;
E17C: 43x43 (17x17) Fixed Cesium;




LL: 43x107 (17x42) wireless GOS or Csl
• Fixed and rotating detector trays with in-tray charging capability

DR

Del Medical · OTC18S

Power	Detector type	Pixel size
40 / 50 / 65 / 80 kW	GOS / Csl	148 μm



Highlights

- Ceiling mounted tube crane with automated tube rotation for motorized stitching functionality
- Elevating table with six-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
- Flat-panel Detector options: E14C: 35x43 (14x17) Wireless Cesium; E17C: 43x43 (17x17) Fixed Cesium
- Fixed and rotating detector trays with in-tray charging capability
- Available with Mobile Positioning and Stitching Stand


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
- 6-way patient table with 363 kg patient weight limit
- Tilting wallstand with full receptor movement to the floor and patient handgrips
- Flat-panel Detector options: E24C: 24x30 Wireless Cesium



E14C: 35x43 (14x17) Wireless Cesium
E17C: 43x43 (17x17) Fixed Cesium
LL: 43x107 (17x42) Wireless available in Gadox or Cesium

- Fixed and rotating detector trays with in-tray charging capability


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
- Fixed height or elevating
- Fixed or 4-way float top
- Flat-panel Detector options: E14C: 35x43 (14x17) Wireless Cesium • E17C: 43x43 (17x17) Fixed Cesium



DR


Del Medical · Universal Veterinary

Detector type	Power	Panel size
CsI	30 / 40 / 50 kW	24 x 30 / 35 x 43 / 43 x 43 cm

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 with variable SID travels full length of the table
- Angulating tube arm, angulation dial, and operator handle
- Electric locks
- Foot-activated exposure switch
- Available with multiple DR options DR options




DR

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

Standard	Capacitor	UPS
52 / 68 / 82kW	52 kW	32 / 40 kW

Highlights

- Fully Motorized Auto Positioning System
- Auto Rotating Touch Screen Console
- Multiple image stitching for stand and table
- Advanced elevating table with high patient load up to 400 kg
- Preventing collisions with safety sensors
- Tube stand touch screen console for system, collimator, X-ray control and X-ray preview
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction, Collimator live streaming camera
- Patient Dose Management AEC, DAP Meter, RDSR, Carbon Fiber Tabletop
- Detector type: CsI, 17×17"/17×14"/10×12"; fixed /wired /wireless



DR

DRGEM · Compact System (GXR-ES Series)

Standard	Capacitor	
20 / 25 / 32 / 40 kW	20 / 25 / 32 / 40 / 50 kW	—



Highlights

- System: 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 (wall stand and tube stand options are available)
- Tabletop with patient load up to 300 kg (optional acrylic tabletop)
- Integrated lock function


DR

DRGEM · Diamond (U-arm Type)

Standard	Capacitor	
52/68/82 kW	52 kW	—

Highlights

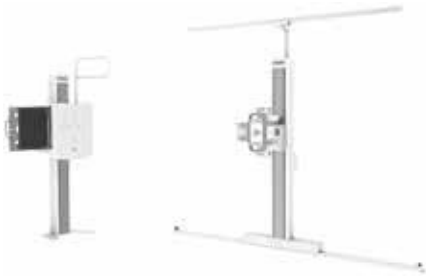
- All-in-one digital radiography system
- Fully-automatic diagnostic system with motorized movement and pre-programmed data for automatic positioning
- Capacitor Assisted 52 kW generator available
- Automatic stitching function
- Touch screen controller at system
- Automatic X-ray collimation and system positioning
- Mobile patient table, remote control
- Safety sensors and AEC
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction
- Detector type: 17x17, wired/wireless, fixed/removable



DR

DRGEM · DR System for Chest and Chiropractic

Standard	Capacitor	UPS
32 / 40 / 52 / 68 / 82 kW	32 / 40 / 52 kW	—



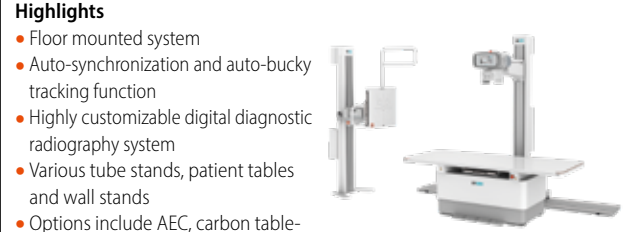
Highlights

- Effective Solution for chest radiography or chiropractic
- Quick & easy operation
- Tube overloading and housing overheating protection
- Real-time monitoring and self-diagnosis
- Automatic calibration for long-term usage
- Detector type: CsI, 17×17"/ 17×14", fixed /wired /wireless

DR

DRGEM · Floor Mounted System (GXR-SD Series)

Standard	Capacitor	UPS
32 / 40 / 52 / 68 / 82 kW	32 / 40 / 52 kW	32 / 40 kW



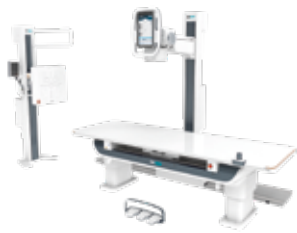
Highlights

- Floor mounted system
- Auto-synchronization and auto-bucky tracking function
- Highly customizable digital diagnostic radiography system
- Various tube stands, patient tables and wall stands
- Options include AEC, carbon table-top, dual speed rotor and premium upgrade
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction
- Detector type: CsI, 17×17"/ 17×14"/ 10×12", fixed /wired /wireless

DR

DRGEM · Floor Mounted System (GXR-SD Series)

Standard	Capacitor	UPS
52 / 68 / 82 kW	32 / 40 / 52 kW	32 / 40 kW



Highlights

- Premium Floor Mounted system
- Motorized Auto Stitching
- 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
- Advanced Elevating table with high patient load up to 400 kg
- Options include AEC, carbon table-top, dual speed rotor and premium upgrade
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction
- Detector type: CsI, 17×17"/ 17×14"/ 10 x 12", fixed / wired / wireless

DR

DRGEM · Premium Ceiling System (GXR-SDSeries)

Standard	Capacitor	UPS
52 / 68 / 82 kW	32 / 40 / 52 kW	32 / 40 kW



Highlights

- Highly customizable DR ceiling system
- Automatic Stitching function with source tilting method
- Intuitive direction movement indicator and user-friendly interface
- Elevating or floating table with high patient load up to 300kg
- Integrated lock function
- Options include AEC, carbon table-top, dual speed rotor and premium upgrade
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction
- Detector type: CsI, 17×17"/ 17×14"/ 10×12", fixed / wired / wireless

DR

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

Standard	Capacitor	UPS
20 / 25 / 32 / 40 kW	20 / 25 / 32 / 40 / 50 kW	—



Highlights

- Compact & powerful Vet 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 type: CsI, 17×17"/ 17×14", fixed /wired /wireless

DR

Examion · X-DRS Ceiling Automatic

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



Highlights

- The ceiling suspended X-ray System from EXAMION is perfectly equipped to fulfill the needs of hospitals.
- Detector size: 10 × 12" – 17 × 17"
 - High quality images
 - Autopositioning
 - Motorized movements of high speed
 - Streamline workflow
 - 12" TFT Tubehead display
 - For one, two or three detectors
 - Option: Stitching at the table and at the wall stand

DR

Examion · X-DRS Ceiling Standard

Power 55 / 65 / 80 kW	Detector type a-Si / CsI	Pixel size 100 – 150 µm
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Highlights
The Examion ceiling-suspended X-ray system meet all hospital's requirements.


- Detector size: 10 × 12" – 17 × 17"
- High quality images
- Well proven system
- Motorized tube crane for tracking function
- Low maintenance effort
- Affordable price
- For one, two or three detectors
- Option: Sticking at the wall stand



DR

Examion · X-DRS Floor Basic

Power 50 / 65 / 80 kW	Detector type a-Si / CsI	Pixel size 100 – 150 µm
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Highlights
The floor mounted systems can be optimally adapted to the needs of the customer:

- Detector size: 10 × 12" – 17 × 17"
- High image quality
- Mechanical synchronization of table bucky and tube
- Low maintenance effort
- Affordable price

DR

Examion · X-DRS Floor Standard E

Power 50 / 65 / 80 kW	Detector type a-Si / CsI	Pixel size 100 – 150 µm
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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
- Option: Sticking at the wall stand

DR

Examion · X-DRS Floor Z-Arm or U-Arm

Power 50 / 65 / 80 kW	Detector type a-Si / CsI	Pixel size 100 – 150 µm
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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 32 / 40 / 52 / 68 / 82 kW	Detector type CsI / GOS	Pixel size 150 µm
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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 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 CsI / GOS	Pixel size 150 µm	Power 50 KW / 65KW / 80KW
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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 50 – 80 kW	Detector type a-Si	Pixel size 139 – 148 µm
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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 50 – 80 kW	Detector type a-Si	Pixel size 139 – 148 µm
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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 Group · Kalos – Powered by Canon DR

Power 65 / 80 kW	Detector type CsI	Pixel size 125 µm
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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
- Integrated with Canon detectors and CXDI-NE software
- Scatter Correction & Advanced Edge Enhancement
- Intelligent Noise Reduction (iNR)
- Built-in AEC



DR

Intermedical · Lucerna DR 65 - Multifunctional DR System

Power 50/65/80 kW	Detector type 17 x 17" – 14 x 13"	Pixel size 140 µm
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Highlights

- Full Manual and motorized movements
- Auto tracking and auto positioning
- Single or double FPD
- Tilting wall bucky
- Floating elevating tabletop
- Easy to preset the examination and control the wide range tabletop movements through the touch screen panels
- Intuitive user interface with unlimited preset APR
- Detector wireless solutions



DR

Mindray Medical · DigiEye 280 DR System

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

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



DR

OR Technology · Amadeo R-DR motorised

Power 50 – 80 kW	Detector type CsI	Pixel size 100/120/139/140/154 µm
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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 50–80 kW	Deployment type Csl	Pixel size 100 /139 /140 /154 µm
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Highlights

Due to its compact design and the minimum ceiling height of only 2.40 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 50–80 kW	Detector type Csl	Pixel size 100 /139 /140 /154 µm
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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 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
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Highlights

- The world's first Twin Robotic X-ray scanner
- Set new standards in advanced musculoskeletal and trauma imaging
- Optional with Real3D and True2scale Body Scan
- Precise insights through unique automation
- Efficient workflows around your patients
- Comprehensive diagnoses with multiple procedures
- Detector size:
 - 43 × 43 cm (RAX detector)
 - 35 × 43 cm (MAX wi-D)
 - 24 × 30 cm (MAX mini)



DR

Siemens Healthineers · Multix Impact

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

- Floor-mounted radiography system
- 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
- Detector size:
 - 43 × 43 cm (Core XL and Core Static)
 - 35 × 43 cm (MAX wi-D)



DR

Siemens Healthineers · Multix Impact C

Power 55 / 65 / 80 kW	Detector type a-Si/Csl	Pixel size 148 µm / 139 µm
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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
- Detector size: 43 × 43 cm (Core XL and Core Static detector); 35 × 43 cm (MAX wi-D)



DR

Siemens Healthineers · Multix Impact E

Power 50 kW	Detector type a-Si/Csl	Pixel size 139 µm
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Highlights


- Floor-mounted radiography system
- Easy and intuitive system handling
- Essential digital X-ray imaging to improve access to care
- Economic Total Cost of Ownership
- Choose from flexible system settings according to individual needs
- Detector size: 43 × 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	CsI	148 µm / 99 µm

Highlights

- Intelligent workflow support
- High level of automation
- AI-based camera functionalities
- Personalized consistency
- Robust and lightweight detectors (X.wi-D)
- Detector sizes:
 - 43 × 43 cm (X.wi-D 43 and MAX static)
 - 35 × 43 cm (X.wi-D 35 and MAX wi-D)
 - 24 × 30 cm (X.wi-D 24 and MAX mini*)

YSIO X.pree VA20 is pending 510(k) clearance. The products/features mentioned herein are not commercially available in all countries. Their future availability cannot be guaranteed.


* X.wi-D 24 detector is currently under development; it is not for sale in the U.S.A. or anywhere else worldwide. Its future availability cannot be guaranteed.



DR

Stephanix · RAD Series Pro DReam

Power	Detector type	Pixel size
Up to 80 kW	Wireless	100µm / 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

DR

Stephanix · Statif DReam

Power	Detector type	Pixel size
Up to 80 kW	Wireless	100 µm / 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	Detector type	Pixel size
Up to 80 kW	Wireless	100 µm / 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	100µm / 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

DR

Stephanix · Xtreme Premium

Power Up to 80 kW	Detector type Wireless	Pixel size 100µm / 125 µm
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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
- Based on sensitive technology for effortless handling


DR

Swissray · ddRElement

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

Villa Sistemi Medicali · Armonico

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

- High-end solution allowing great application flexibility and high production capacity
- Touch Screen interface integrated on tube-head
- Tilting 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 x 43 cm / 43 x 43 cm




DR

Villa Sistemi Medicali · Moviplan iC with floor-mounted column

Power 50 / 65 / 80 kW	Detector type a-Si / CsI	Pixel size 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 x 43 cm / 43 x 43 cm



DR

United Imaging Healthcare Poland · uDR 780i Pro

Detector type Automatic Tube-detector Tracking System	Pixel size large HD Flat Panel Detector	17"x17" -
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Highlights

Our DR system is equipped with uVision remote technology, which integrates the virtual detector profile, remote collimation and stitching range adjustment functionalities.

- High scanning performance
- uVision
- Efficient inspection
- Automatic Tube-detector Tracking System
- Convenient operation
- Automatic Stitching Technology
- Efficient Workflow:
 - Height-Adjustable Floating Table
 - Advanced and Intuitive LCD Touchscreen
 - Automatic Tube-Detector Tracking




Bucky

Stephanix · RAD Series

Power Up to 80 kW	Table Floating	Table height variable
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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

Villa Sistemi Medicali · Moviplan 800

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

- Modular bucky system for general radiographic applications, musculoskeletal 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 · FDA4343R

Size 43 × 43 cm	Detector type CsI / TI	Pixel size 140 µm
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Highlights

- Our proven advanced fine CsI / TI and direct deposition technologies provide high resolution and high contrast
- The reflective coating in the CsI / TI 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 / TI screen that is protected from degradation
- AED available


DR Detectors

Canon Electron Tubes & Devices · FDA3543RP

Size 35 × 43 cm	Detector type CsI / TI	Pixel size 140 µm
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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 35 × 43 cm / 43 × 43 cm	Detector type CsI / TI	Pixel size 140 µm
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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 Elite series

Size 27.4x35/35x43/43x42 cm	Detector type CsI	Pixel size 125 µm
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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 Detectors

Canon · CXDI Pro series

Size	Detector type	Pixel size
27.4x35/35x43/43x42 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 Detectors


Canon · CXDI-420C Fixed

Size	Detector type	Pixel size
27.4x35/35x43/43x42 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 • 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 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-RF Wireless B1

Size	Detector type	Pixel size
43 x 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 · Canon DR-Upgrade-within-2-minutes

Size	Detector type	Pixel size
43 x 42 / 35 x 43 / 27.4 x 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

Del Medical · Delworks EDR

Size	Detector type	Pixel size
43x107/43x43/35x43/24 x30 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
- Flat-panel Detector options: • E24C: 24x30 cm Wireless Cesium • E14C: 35x43 cm (14x17 in) Wireless Cesium • E17C: 43x43 cm (17x17 in) Fixed Cesium • LLL: 43x107 cm (17x42 in) Wireless available in Gadox or Cesium
- Single touchscreen 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 - 43x107 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
- Image anywhere on the detector for any exam
- Available in Gadax or Cesium



DR Detectors

DRGEM · AcquiDR

Size	Scintillator	Type
17x17"/17x14"/10x12"	GOS/CsI	Fixed / wired / wireless

Highlights

- DR retrofit solution
- RADMAX acquisition workstation
- Upgrade any analog X-ray system into a fully digital radiography system(AED)
- DICOM 3.0 compatible
- Simple installation and operation
- Image stitching feature
- Medical & VET software available
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction



DR Detectors

Examion · X-DR

Size	Detector type	Pixel size
14 x 17" / 17 x 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 x 17"/17x17"
- 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	150 µm	43 x 80 cm

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 x 30 – 125 x 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

medigration · DR Retrofit-Kit DX | Vision

Size	Detector type	Pixel size
35 x 43 cm	a-Si / CsI	148 µm

Highlights

Wireless, portable detector with WLAN and Battery

- Easy integration into an existing X-ray system
- 100 percent touch-capable user interface
- Cordless and lightweight wireless flat panel detector
- For the use with mobile X-ray systems
- Auto-trigger mode (AED function) – No need to synchronise with the generator
- Excellent image quality through an integrated operating program with HARMONY image processing
- Detector format: 35 x 43 cm





Health is everyone's challenge

Knowing millions of people don't have access to the healthcare that they need, our ambition is to provide medical AI technologies in all countries and regions of the world by 2030. Fujifilm, working side by side with healthcare providers, is taking on the challenge of delivering access to prevention, diagnosis, and treatment, wherever patients live.



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
17x17"	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	100μm / 125 μm



Highlights

- To get easily the digital benefits in analog 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

Villa Sistemi Medicali · VDX Next Add-on

Detector type	Pixel size	Size
aSi / CsI	139 μm	43 x 43 cm



Highlights

- Complete retrofit kit integrating a workstation, wireless flat panel detectors, advanced software, and optional Bluetooth DAP Kit for digitizing any analog equipment
- Lightweight design and 4-sides chamfer ensure panel's swift and quick movement
- Optional advanced applications like software grid, bone suppression, and boost lines to maximize diagnostic capabilities and dose reduction
- Optional Bluetooth® DAP kit for dose measurement and wireless data transmission to the imaging workstation without any connection with the x-ray generator
- Flat panel Detector 43 × 43 cm with CsI scintillator and a-Si TFT (also available in 35 × 43 cm format)

CR

OR Technology · Divario CR-T2

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



Highlights

- Small – compact desktop unit (0.30 m² 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

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 Sharp Evolution – Remote-controlled system		
Power 50 kW – 80 kW	Detector type a-Si	Pixel size 139 – 148 µm
		
<p>Highlights</p> <ul style="list-style-type: none"> • Exclusive cross-levers system for a safe positioning of the patient • High longitudinal travel and free access to the table from all four sides • Motorized dual grid system for an automatic 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 50 – 80 kW	Detector type a-Si	Pixel size 139 – 148 µm
		
<p>Highlights</p> <ul style="list-style-type: none"> • 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

Intermedical · Lucerna RF TILT - Dynamic Remote Controlled		
Power 50/65/80 kW	Detector type Dynamic 17x17"	Pixel size 140 µm
		
<p>Highlights</p> <ul style="list-style-type: none"> • Remote controlled table +90° and -15° tilting • Unmatched patient coverage • Patient weight up to 200 kg • SID: 1.15m~1.8m • Rotation Angle of Foot Pedal: 360° • Auto positioning regarding each protocol • Motorized: Automatic positioning, collimation, filtration • Smart access for secure patient transfer • Intuitive user interface • Wireless remote • Secondary console • DSA 		
<ul style="list-style-type: none"> • Auto-Stitching Function • One-click in Place Function: Standing Position or Lying Position 		

Flatpanel Fluoro

Intermedical · Lucerna U Arm W3D – Whole Body 3D Scanning		
Power 65/80 kW	Detector type Dynamic 17 x 17"	Pixel size 140 µm
		
<p>Highlights</p> <p>The Lucerna U Arm W3D system is the unic solution for multipurpose 3D X Ray acquisition</p> <ul style="list-style-type: none"> • Easy to use and friendly interface • Full motorized movements • Dynamic Flat Panel detector 43 x 43 • Automatic positioning (APR) • Workstation Image Station offers full functionality for interrelated workflow • One key position system on the remote-control unit helps to operate the movement conveniently 		

Flatpanel Fluoro

Siemens Healthineers · Luminos Agile Max		
Power 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
		
<p>Highlights</p> <ul style="list-style-type: none"> • Stronger synergies – with a true 2-in-1 solution • Sharper imaging – for fast, confident diagnosis with a large 43 x 43 cm MAX dynamic detector • Safer use – to protect patients and technologists • Detector sizes: <ul style="list-style-type: none"> – 43 x 43 cm (MAX static detector) – 35 x 43 cm (MAX wi-D) – 24 x 30 cm (MAX mini) <p>Ysio Max options:</p> <ul style="list-style-type: none"> • 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 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
		
<p>Highlights</p> <ul style="list-style-type: none"> • Stronger synergies – with a true 2-in-1 solution for radiography and fluoroscopy • Sharper imaging – for fast, confident diagnosis with a large 43 x 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 • Detector sizes: <ul style="list-style-type: none"> – 43 x 43 cm (MAX static detector) – 35 x 43 cm (MAX wi-D) – 24 x 30 cm (MAX mini) 		


Flatpanel Fluoro

Siemens Healthineers · Luminos Impulse

Power 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
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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
- High level of cybersecurity
- Detector sizes:
 - 43 × 43 cm (MAX dynamic detector)
 - 35 × 43 cm (MAX wi-D)




Flatpanel Fluoro

Siemens Healthineers · Luminos Lotus Max

Power 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
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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
- High level of cybersecurity
- Detector sizes:
 - 43 × 43 cm (MAX dynamic detector)
 - 43 × 43 cm (MAX static detector)
 - 35 × 43 cm (MAX wi-D)
 - 24 × 30 cm (MAX mini)




Flatpanel Fluoro

Siemens Healthineers · Multitom Rax

Power 65 / 80 kW	Detector type a-Si / Csl	Pixel size 148 µm
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Highlights

- The world's first Twin Robotic X-ray scanner
- Set new standards in advanced musculoskeletal and trauma imaging
- Optional with Real3D and True2scale Body Scan
- Precise insights through unique automation
- Efficient workflows around your patients
- Comprehensive diagnoses with multiple procedures
- Detector size:
 - 43 × 43 cm (RAX detector)
 - 35 × 43 cm (MAX wi-D)
 - 24 × 30 cm (MAX mini)




Flatpanel Fluoro

Stephanix · D²RS

Power Up to 80 kW	Detector type a-Si / Csl	Pixel size 148 µm / 160 µm
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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 – Powered by Canon DR

Power Up to 80 kW	Detector type a-Si / Csl	Pixel size 160 µm
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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 ...
- Multipurpose solution with one unique detector; static & dynamic exams inside the table and direct projections out of table




Flatpanel Fluoro

Stephanix · D²RS 90/90

Power Up to 80 kW	Detector type a-Si / Csl	Pixel size 148 µm / 160 µm
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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 – Powered by Canon DR

Power Up to 80 kW	Detector type CsI	Pixel size 160 µm
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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 • Multipurpose solution with one unique detector; static & dynamic exams inside the table and direct projections out of table

Flatpanel Fluoro

Villa Sistemi Medicali · Apollo DRF 4.0

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

GMM Group · Opera Revolution

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

- Excellent patient accessibility thanks to the low distance from the floor
- Touch screen display on the collimator for the control of the movements of the table
- High weight capacity for examinations for obese patients
- Motorized dual grid system for the automatic 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)

Fluoroscopy

Villa Sistemi Medicali · Apollo 4.0

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

Power 50 / 65 / 80kW	II format 9" / 12"	CCD-matrix 1 k x 1
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Highlights

- Compact and cost-effective system for all the needs of radiographic and R/F imaging
- 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

Mobile DR

Del Medical · MDR

Power 40kW	Width 57.6 cm	Weight 435 kg
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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
- Flat-panel Detector options:
 - E24C: 24 x 30 Wireless Cesium
 - E14C: 35 x 43 (14 x 17) Wireless Cesium

Mobile DR

DRGEM · Topaz

Power 40 kW	Column Collapsible	Movement Motorized
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Highlights

- 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 $\pm 325^\circ$ (Column rotation)
- Built-in detector charger
- Remote controller
- Collimator live streaming
- AI-Based Diagnostic Assistance, Bone Suppression, Scatter Reduction

Mobile DR

Examion · X-DRS Mobile Premium

Power up to 50 kW	Width 54 cm	Weight 520 kg
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Highlights

The X-DRS Mobile Premium 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" Tubehead display
- Easy moving

Mobile DR

Examion · X-R Mobile 320

Power 32 kW	Width 61.8 cm	Motorized No
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Highlights

The X-R Mobile 320 is a robust basic model of an X-ray system with numerous features at 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 32 kW	Width 56 cm	Weight 440 kg
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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 2.5 kW	Width 55 cm	Weight 90 kg
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Highlights

- Groundbreaking compact, light-weight 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 4.5 kW	Width 30 × 25 × 14 cm	Weight 3.5 kg
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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 series – Mobile radiographic units

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

- Compact and ultra-lightweight mobile units
- Quick approach to bedridden/reduced mobility patients
- High frequency generator
- Arm lock and autobrake system for a safe transportation
- Flat panel detectors for a superior image quality
- Fully-integrated interface to control exposure settings, available on a touch-screen panel PC or on a tablet, also usable as a retrofit solution
- Advanced components and image processing software for dose reduction



Mobile DR

GMM Group · MAC D – Mobile radiographic unit

Power 32 kW	Detector type a-Si	Pixel size 139 – 148 µm
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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 32 kW	Width 57.6 cm	Weight 412 kg
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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

Mindray Medical · MobiEye 700 Mobile DR System

Power 30 kW / 50 kW	Width 47 cm	Weight 370 kg
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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 5 kW	Width 56.5 cm	Weight 79 kg
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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 35 kW	Width 127.8 cm (l) × 59.8 cm (w)	Weight Approx. 380 kg
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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
- Detectors:
 - 35 × 43 cm (MAX wi-D)
 - 24 × 30 cm (optional MAX mini)



Mobile DR

Siemens Healthineers · Mobilett Impact

Power Max. 32 kW	Width 123 cm (l) × 59 cm (w)	Weight Approx. 275 kg
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Highlights

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



Mobile DR

Solutions for tomorrow · !M1 – Powered by Canon DR

Power 20 / 32 / 40 kW	Width 58 cm	Weight 324 kg
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Highlights

- Smallest and lightest
- Battery operating time up to 9 hours
- 10 min charging – 1 hour operation time
- 8 years battery warranty
- Easy to clean
- Ready to use within 10 seconds
- Height and reach adjustable drive handle
- Remote diagnostic
- Motorized collapsible column support



Mobile DR

Stephanix · Movix 4/8 E+ DReam

Power 4 / 8 kW	Width 78 cm	Weight 87 kg
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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
- Up to 125 kVp



Mobile DR

Stephanix · Movix DReamy

Power 20 / 32 / 40 / 50 kW	Width 54 cm	Weight 520 kg
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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 code
- Same interface as Stephanix RAD rooms, intuitive with unlimited APR
- Based on sensitive technology for effortless handling



RAD BOOK 2024

Please visit us at
healthcare-in-europe.com

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



Mobile DR

Technix · TMB 320 DR/TMB 400 DR/TMB 320/TMB 400

Power	Width	Weight
32 kW / 40 kW	57.6 cm	412 Kg / 435 Kg / 397 Kg / 420 Kg

Highlights

- Battery-motorized system for easy maneuvering and bedside positioning
- Fixed or telescopic column for a wider view
- X-ray exposures are possible without connecting the unit to an external power supply
- Analogue and digital versions
- 19" high resolution touchscreen Panel PC
- Full DICOM connectivity
- Possibility to interface multiple detectors



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 column (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

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 x 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 x 43 cm



Mobile DR

Villa Sistemi Medicali · Visitor T30 R-DR

Power 32 kW	Width 69.5 cm	Weight 250 kg
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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 40 kW	Width 57.6 cm	Weight 435 kg
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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 14 × 17"	Detector type a-Si / CsI	Pixel size 100 – 150 µm
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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 x 17"
 - Pixel size: 100 – 150 µm

Portable DR

OR Technology · X-ray case Leonardo DR mini III

Size 13 × 10"; 14 × 17	Detector type CsI	Pixel size 100 / 139 / 150 µm
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Highlights

- Antiglare 21,5" Full HD touchscreen
- Despite large HD monitor only 9.5 kg
- Globally proven image processing
- Exchange of batteries during operation, System enables continuous, cordless work for 8 hours with up to 500 X-ray exposures (in double-battery operation; 18 volts / 5 Ah)
- Intelligent stand-by mode activated when closing the monitor – you can continue working immediately within a defined time frame or the system shuts down automatically
- Robust, extremely durable case, splash-proof (IPX4)



Portable DR

OR Technology · Leonardo DR nano

Size 14 × 17"	Detector type CsI	Pixel size 100 / 139 / 154 µm
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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 35 × 43 cm	Detector type a-Si / CsI	Pixel size 148 µm
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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



the next step for digitalization



Mobile X-ray

DRGEM · Jade

Power 4 kW	Movement Manual	-
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Highlights

- 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
- Four way control (Bluetooth, Main body, control console and remote control)
- Preprogrammed APR data and userprogrammable APR
- Simple and foldable mobile stand with external console
- USB external interface, Bluetooth DR interface



Mobile X-ray

Stephanix · Movix Series

Power 20/ 32 / 40 / 50 kW	Operation Battery / Mains	Motorized Yes
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Highlights

- Cost effective solution
- Compactness ensures easy handling
- User-friendly interface with 498 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
- Exists in Digital version



Mobile X-ray

Villa Sistemi Medicali · Visitor T30C

Power 32 kW	Operation Mains	Motorized No
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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 32 kW	Operation Battery	Motorized Yes
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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 32 kW	Operation Mains	Motorized No
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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
- sAPR 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-3332 X



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-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) 1.670 W (anode heat dissipation)
- High throughput (500W continuous anode input power)
- High resolution image with small focal spot size


Accessories / Complementary Systems

DRGEM · GXR Series – X-Ray Generator

Standard 32 / 40 / 52 / 68 / 82 kW	Capacitor 32 / 40 / 52 kW	UPS 32 / 40 kW
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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
- Automatic calibration for long-term usage
- Capacitor Type: compatible with standard wall outlet
- UPS Type: Operation time of up to 12 hours and 3,500 X-ray shots during a power failure



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 x 17" / 17 x 17"
- Pixel size: 100 – 150 µm

Accessories / Complementary Systems

I. A. E. · C31-RTM 72

Size	Power	Capacity
0.6 / 1.2	30 kW / 75 kW	300 kHU, 500 W



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

IMD Generators · X-ray Monobloc, Raw Family

Highlights

- Single tank X-ray Generator all aluminium case
- Customised product according to customer' technical requirements
- Stationary and Rotating Anode Tube
- Power range from 3.5 kW up to 32 kW
- kV range from 40 up to 125kV
- Suitable for Fluoroscopy, Pulse and Rad working mode



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. · 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

Your guide to imaging technology and informatics in Europe

For more information, visit healthcare-in-europe.com


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/CT

Siemens Healthineers · Biograph Vision.X

Highlights

Biograph Vision.X™ is a next-generation PET/CT scanner that builds on the established performance of Biograph Vision™ and delivers a time of flight (TOF) of 178 picoseconds (ps) – the industry's fastest TOF.¹ Leveraging small LSO crystals 100 percent covered by SiPMs, the scanner delivers high 48-mm³ volumetric resolution and its industry-best temporal resolution of 178 ps. 1. Fastest measured value on a single system. Based on competitive literature at time of publication. Data on file.




PET/CT

United Imaging Healthcare Poland · uEXPLORER

System sensitivity	Energy resolution (NEMA)	Field of view
176 cps/kBq	2.9 mm NEMA Spatial Resolution	194 cm

Highlights

The uEXPLORER is an ultra-high-resolution digital PET/CT with a 194 cm axial PET field of view (FOV) that enables the entire body to be scanned in one bed position. The system offers total-body dynamic scanning, which enables ultra-low patient doses and produces ultra-high image resolution, changing the way whole-body PET/CT imaging has traditionally been performed. With total-body coverage and unprecedented sensitivity, uEXPLORER is able to capture dynamic changes to radiotracer distribution with ultra-high temporal resolution.




PET/MR

Siemens Healthineers · Biograph mMR		
Gradient 45 mT / m ¹	Slewrates 200 T / m / s ¹	Channels Up to 102 × 32

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



¹ Maximum gradient amplitude and slewrates can be applied simultaneously.

SPECT/CT

Siemens Healthineers · Symbia Intevo		
System sensitivity 202 cpm/μCi	Energy resolution (NEMA) –	Field of view 533 × 387 mm




Highlights

- Higher image resolution enables physicians to distinguish between degenerative disease and cancer
- The first system offering accurate and reproducible SPECT quantification
- Up to 68 percent lower CT dose¹ with CARE Dose4D and up to 75 percent lower injected dose¹ 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 202 cpm/μCi	Energy resolution (NEMA) –	Field of view 533 × 387 mm



Highlights


- Interative Metal Artifact Reduction (iMAR) reveals more details by reducing metal artifacts. iMAR lets you overcome the effects of metal artifacts in challenging exams
- Sinogram Affirmed Iterative Reconstruction (SAFIRE) reduces radiation dose while maintaining image quality
- Interleaved Volume Reconstruction (IVR) 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 Pro.specta		
System sensitivity 202 cpm/μCi	Energy resolution (NEMA) up to 588 keV	Field of view 533 × 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 reconstruction¹
- 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
- Fast, low-dose CT—up to 64 slices



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 Excel		
System sensitivity 202 cpm/μCi	Energy resolution (NEMA) –	Field of view 533 × 387 mm




Highlights

- Smallest room size in its class,¹ reducing costs associated with room remodeling and expansion
- Ability to image every patient² and improve comfort with a larger bore; a high-capacity, low-height patient bed; and hospital bed imaging capabilities
- Industry-leading image quality¹ 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		
System sensitivity 202 cpm/μCi	Energy resolution (NEMA) –	Field of view 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 patient² and improve comfort with a larger bore; a high-capacity, low-height patient bed; and hospital bed imaging capabilities
- Industry-leading image quality¹ 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).

DVD

DVD Import
DVD Burner



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

medigration · CD-Imager



Highlights

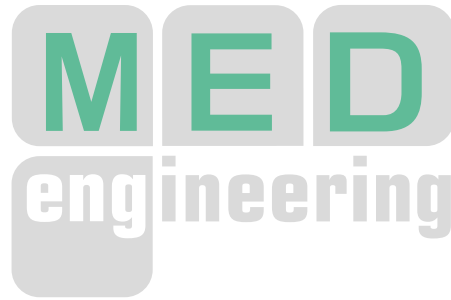
- Fully automatic compact system for creating DICOM patient CDs or DVDs
- Highly compatible with all digital DICOM modalities (multimodality)
- Individual labeling (practice / clinic logo)
- Easy integration of DICOM patient data
- Extremely cost effective due to quick printing times and low link consumption
- Format: CD-R, DVD-R, DVD+R, DVD-R DL, DVD+R DL
- Capacity: 30 CDs/h or 15 DVDs/h (burn and print)
- Magazine size: 2 x 50 pcs

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)
- CHILL viewer in report quality
- Alternative presentation as HTML and JPEG
- Certified by OFFIS and DRG
- Works with any PACS
- External output tray



Please visit us at
med-eng.de

Ultrasound



FUJIFILM

 OR Technology

mindray

SIEMENS
Healthineers 

Advances in point-of-care ultrasound

Ultrasound technology now plays a vital role in clinical diagnosis and management. Significant advances in point-of-care ultrasound (POCUS) have made it a versatile tool for assessment, diagnosis, and follow-up across various fields. New developments continue to expand its applications, improving patient care and outcomes.

Report: *Bernard Banga*

In medical settings, ultrasound has many benefits – including, but not limited to its portability, non-invasiveness, low cost, absence of radiation, real-time imaging capability and bedside assessment. For these reasons, POCUS has rapidly emerged as an excellent multi-modal tool and has been gradually incorporated as an adjunct to physical examination in order to facilitate evaluation, diagnosis and management.

'POCUS can assist in the evaluation of undifferentiated sepsis. It can also contribute to the differential diagnosis of other types of shock, thus facilitating the decision-making process,' said Effie Polyzogopoulou, Assistant Professor of Emergency Medicine at the National and Kapodistrian University of Athens, Greece, and Chair of the European Society for Emergency Medicine (EUSEM) Ultrasound Section.

In the latest Global Burden Diseases report, sepsis-associated morbidity was estimated at 48.9 million global cases while the mortality rate was reported at 11 million deaths, or one in five deaths worldwide. Considering that sepsis-related morbidity and mortality rates remain high, detection and exploitation of enhanced bedside techniques that would facilitate early diagnosis and effective management of sepsis become imperative. In this context, POCUS has high specificity, more than 91% for the four subtypes of non-traumatic hypotensive shock and approximately 80% for mixed types. 'Hence the importance of the roll-out and deployment of POCUS in the emergency department with focused cardiac ultrasound, lung ultrasound, abdominal, pelvic and urinary tract ultrasound, as well as vascular and transcervical ultrasound,' said Polyzogopoulou.

Integration of Point-of-Care diagnostics into a wider variety of fields

Many other clinical fields benefit from POCUS technological developments. Several main technological advancements have contributed to the development of POCUS enhancing bedside patient care:

- First, rapid technological advances in electronics and piezoelectric materials provided further improvements from bistable to greyscale images and from still images to real-time moving images.
- Second, the exponential increases in processing power have allowed for faster and more powerful systems incorporating digital beamforming, increased enhancement of the signal, and new ways of interpreting and displaying data, such as 3D power doppler imaging.



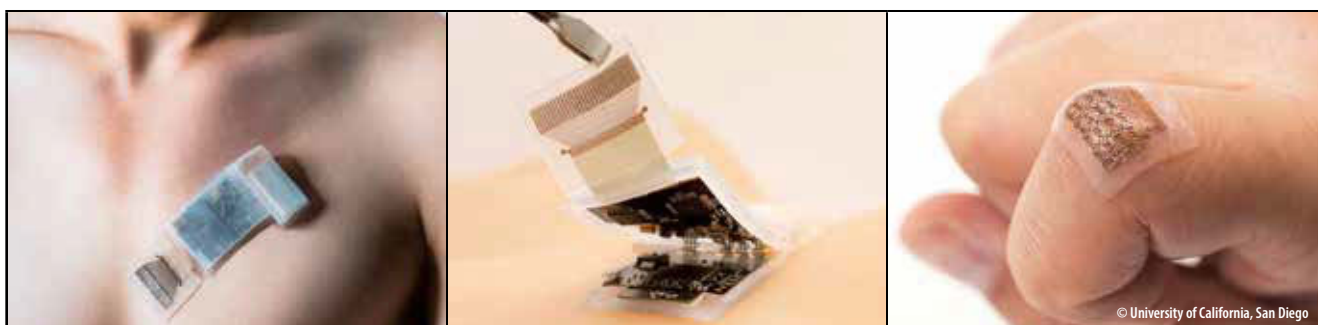
Professor Sheng Xu, Associate Professor of Nanoengineering Technology at the University of California, San Diego (UCSD)

- Third, handheld ultrasound systems allow for portable imaging. These technological advancements make ultrasound more ubiquitous, particularly at the point of care. POCUS devices are easier to use, take up very little space, and can be carried in a pocket. Many handheld ultrasound devices also provide comparable image quality to most mid-range traditional ultrasound systems.
- Fourth, innovations in miniaturization and wireless connectivity continue to improve the portability and ease of use of ultrasound devices.

Checklist: 153 items to assess POCUS proficiency

The recent development of a multisystem point-of-care ultrasound skills assessment checklist published in the *Ultrasound Journal* has been a significant advancement. This consensus-based, multispecialty POCUS checklist evaluates skills in image acquisition and anatomy identification for various systems and disciplines: basic cardiac systems, abdominal, and vascular ultrasound, as well as peripheral intravenous line insertion. 'This 153-item checklist serves as a standardized tool to assess and evaluate the proficiency of clinicians in performing POCUS examinations across different specialties,' said Nilam J. Soni, Professor of Medicine and Academic Hospitalist at the University of Texas School of Medicine in San Antonio and the South Texas Veterans Health Care System.

Although portable ultrasound equipment has achieved technical integration (i.e., multiple imaging functions in a single unit) and



miniaturization such as handheld ultrasound devices, 'there are still challenges for development of US devices and applications to move forward into a subspecialty of clinical disciplines,' said Chengzhong Peng, MD, Chief Physician at the Shanghai Tenth People's Hospital of Tongji University and the Shanghai Engineering Research Center of Ultrasound Diagnosis and Treatment. A specially designed ultrasound machine with new concepts is needed in developing specialty-oriented instruments.

Tele-remote and 5G networks

The world of point-of-care ultrasound is rapidly evolving, with the integration of cutting-edge technologies such as artificial intelligence (AI), cloud computing, 5G networks, robots, and tele-remote technology, Dr Peng points out. This integration is transforming the specialized POCUS system into an intelligent terminal platform, with the potential to transform healthcare as we know it.

Tele-remote ultrasound allows for remote real-time diagnosis and interventional procedures through high-precision synchronization via video, audio, text, and other multichannel communications. Using a remote robotic ultrasound system, expert doctors can use their own skill for remote ultrasonic scans and providing medical diagnosis based on real-time ultrasound imaging generated by robotic scanning.

These advances are further driven by the advent of 5G technologies, which play a crucial role in enabling long-distance, real-time, high-bandwidth, high-resolution, and low-latency requirements for remote ultrasound consultation and robotic operations. This has proven invaluable during the Covid-19 pandemic, allowing remote assessment of patients' lung lesions and guidance during interventional procedures, thus conserving expert resources and minimizing cross-infection risks. However, remote ultrasound is not conducted for large-scale clinical applications, and it can only be used as a basic screening tool for special situations at present due to the lack of unified standards for image acquisition, quality control, data transmission, and security.

With the recent integration of artificial intelligence into diagnostic ultrasound imaging, POCUS aims to harness the power of this technology for rapid image processing, standardization, and continuous workflow. The integration of AI in ultrasound equipment has led to built-in intelligent evaluation features, optimization of image quality, and smart screening, acquisition, analysis and data pro-

cessing. This has enabled ultrasound operators to bypass complicated image optimization and measurement procedures, focusing instead on clinical diagnosis and treatment.

Ultrasound with AI technology has been applied in clinical practice, such as minimally invasive intervention, thyroid, breast, musculoskeletal, paediatrics, and cardiac examinations, improving the accuracy of clinical ultrasound diagnosis. For example, a study published in *Ultrasonics* showed that the coincidence rate by AI-based ultrasound systems in the interpretation of benign and malignant thyroid nodules increased from 64% to 84%.

However, there are still many challenges in AI ultrasound applications. The huge quantity of data generated in the short term puts higher requirements on algorithms and computing power. Computing power limitations need to be solved to ensure that the AI model can be effectively used on tablets and mobile phone platforms.

A market worth \$5.9 billion by 2030

Last, but not least, cloud computing is a new type of computing platform that has the advantages of low cost, high reusability, high performance, and easy expansion. Through the Internet, it accelerates the integration of a large number of algorithmic formulas and storage resources, and then distributes them to specific users accordingly. Recently, with the application of mobile terminal devices such as mobile phones, tablets and computers, cloud computing technology has brought about new changes for ultrasound diagnosis. The ultrasound system on the patient side is responsible for collecting image data, while the mobile device on the doctor side displays the image data. This data can be transmitted in real time between the two locations, and remote consultations can be provided via 5G technology and cloud platforms.

These technological developments have paved the way for next-generation POCUS devices that are highly portable, user-friendly, and accessible. Notably, handheld ultrasound systems are experiencing rapid growth in the market. According to Strategic Market Research, the global Point-of-Care Ultrasound market valued at \$3.24 billion in 2022 is projected to grow at a robust compound annual growth rate of 5.7% by 2030, reaching \$5.9 billion. As this technology continues to evolve, it holds the potential to transform healthcare delivery and enhance patient care across the globe.

Ultrasound

Fujifilm · Arietta 65

Frequency range	Display mode	Detector 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...
- Urology advanced Intuitive Fusion package



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

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 Elastography
- Large touch screen (13.3" to 15.6") & Full HD monitor (21.5" to 23.8"), with 3 to 5 active sockets
- Come and experience Consona at ECR 2024!



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 multiple clinical settings
- Intelligent workflow with iTouch (one key image optimisation)
- User-defined operation to improve work efficiency



Ultrasound

Mindray Medical · ME Series

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
- Contrast 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 Elite

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 Breas



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 (Ultra Micro Angiography)
- Intelligent tools with more efficiency and accuracy: Smart Breast and Smart HR
- Multi-parametric assessment solutions for liver, breast and thyroid imaging bring more clinical advantages

Discover and Experience Resona R9 at ECR 2024!



Ultrasound

Mindray Medical · TE Air

Frequency range	Display mode	Display size
–	–	–

Highlights

Wireless transducer anywhere, anytime

- Small and light weighted for comfortable control
- IP68 waterproof level, easy to disinfect
- Fast charging capability
- All-day battery design with charging case supporting up to 8-hours daily work



Ultrasound

Mindray Medical · TE7

Frequency range	Display mode	Display size
1 – 16 MHz	3D	15"

Highlights

Wireless transducer anywhere, anytime

- Touch enabled response 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 eSpatial 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	Display mode	Display size
5 – 15 MHz	–	–

Highlights

The new wireless ultrasound scanner in handheld format is a true multifunctional 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 footprints
- Five active transducer ports and one CW port support 21 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 Maple Ultrasound System		
Frequency range	Display mode	Display size
1.3 – 12.4 MHz	2D / 3D / 4D	13.3" / 21.5"
<p>Highlights</p> <p>The ACUSON Maple Ultrasound System sets a new standard – making reliable, high-quality imaging attainable in demanding, fast-paced environments for every patient, every day. Best-in-class image quality for diagnostic confidence. Customizable productivity tools and AI-powered solutions to enhance usability and efficiency. Thoughtful design for intuitive operation. Small footprint and lightweight portability. Optimize your clinical performance every day with ACUSON Maple.</p>		

Ultrasound

Siemens Healthineers · Acuson NX2 Elite Ultrasound System		
Frequency range	Display mode	Display size
2 – 10 MHz	2D	21.5"
<p>Highlights</p> <ul style="list-style-type: none"> 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"
<p>Highlights</p> <ul style="list-style-type: none"> 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"
<p>Highlights</p> <ul style="list-style-type: none"> Powerful platform driven by efficiency and built for performance. Intuitive user interface with up to 28 percent fewer keystrokes and 3x more user-defined keys 21.5" HD display and 220° endo-cavity transducer provides expanded field of view 10.4" 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"
<p>Highlights</p> <ul style="list-style-type: none"> Powerful platform driven by efficiency and built for performance Intuitive user interface with up to 28 percent fewer keystrokes and 3x more user-defined keys 21.5" HD display provides expanded field of view 10.4" touch display with swipe motion Transducer compatibility with existing and legacy Siemens Healthineers systems 		

Ultrasound

Siemens Healthineers · ACUSON Origin Ultrasound System		
Frequency range	Display mode	Display size
1 – 21MHz	2D / 3D / 4D	24"
<p>Highlights</p> <ul style="list-style-type: none"> Truly integrated AI, informed by over 2 billion cardiac images – one of the largest databases of this kind in the world Superior image quality for clinical data acquisitions. The system's advanced imaging technology provides high-resolution, clear, and detailed images, allowing for better visualization of cardiac structures and functions. Easy user experience with intuitive operation and ergonomic design to enhance efficiency and reduce operator strain. 		

Ultrasound

Siemens Healthineers · Acuson P500 Ultrasound System

Frequency range 1.3 – 16 MHz	Display mode 2D	Display size 15.4"
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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 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 1 – 18 MHz	Display mode 2D / 3D / 4D	Display size 13.3 / 21.5"
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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 Sequoia Ultrasound System

Frequency range 1 – 17.8 MHz	Display mode 2D	Display size 24" / 13.3"
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Highlights

- Intelligent Imaging: Experience easier imaging across clinical specialties with powerful automation in each major mode along with a wide selection of advanced transducers.
- Expanded Insights: Amplify your expertise with advanced tools and exclusive innovations designed to improve diagnostic accuracy and patient outcomes.
- User-Driven Design: Amplify your expertise with advanced tools and exclusive innovations designed to improve diagnostic accuracy and patient outcomes.



RAD BOOK 2024

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Testing Devices



PTGW
THE DOSIMETRY COMPANY

VACUTECH

QUART
Quality Assurance in Radiological Technologies

Radcal

RTI
INDEPENDENT X-RAY
QUALITY ASSURANCE

Testing Devices

PTW · QRM Customized Phantoms



Highlights

- Our core competence is the development and production of customized phantoms in cooperation with our customers
- We successfully collaborate with manufacturers in medical and industrial X-ray markets as well as with scientists and physicians working on research projects and studies
- All standard phantoms can be modified according to your needs
- We also offer customized phantoms for: PET, SPECT, radiation therapy, and for other modalities
- Contact us – we provide phantoms for your needs

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 to 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 image quality test 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 its realistic reproduction of the injection procedure of the contrast agent into vessels with different attenuation properties – contrary to other available products.

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

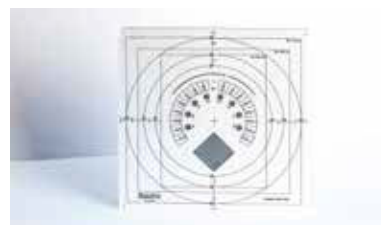
Quart · nonius Digital X-Ray Ruler

**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.
- Connected to a PC it provides quick test results, graphic analysis of beam profiles and printed test reports.
- The nonius' resolution capabilities and precision are within the nonius range of 0.1 mm.
- It requires only 3 steps to obtain the test result: Position – Expose – Evaluate.

Testing Devices

Quart · RFP150 R/F 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.
- A small phantom version (the QUART SPdI) is available for fluoroscopy.
- The phantom can be ordered with a unique kV test object to routinely evaluate radiation quality and generator performance.
- Optional accessories include a suspension system for use on wall-mounted X-ray systems, filters and a special support.

Testing Devices

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 measurements of DAP and DAP rate.



Highlights

10X60DAP

- Ideal for Dose Area Product (DAP) of Pan-Dental or CBCT-Dental
- Easy to use mounting alignment fixture
- Unit selection of Gy-m² or Gy-cm²
- 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

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



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 · Mako



Highlights

Mako is a cutting-edge solution that revolutionizes your way of work with plug-and-play simplicity. It's our most efficient and versatile meter, delivering the highest practical accuracy experienced with the industry's broadest application range. Beyond the hills of spreadsheets, Ocean Next software awaits. Ocean Next gathers data from Mako in real-time so you can truly excel. Immerse yourself in a world of streamlined routines and complete traceability, Ocean Next.

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 RTI Mako, 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

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, USB
- Active area: 123 × 123 mm² and 147 × 147 mm²

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 mm² and 147 × 147 mm²
- 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) mm²

Companies & Suppliers

Company Name	Logo	Computed Tomography	Magnetic Resonance Imaging	Injectors	Interventional Systems	Artificial Intelligence	IT Systems	Women's Health	R/F Systems	Molecular Imaging	DVD	Ultrasound	Testing Devices
allMRI GmbH Südstr. 23 74226 Nordheim, Germany tel +49 7133 237 02 20 mail@allmri.com www.allmri.com			■										
Arcoma AB Annavägen 1 352 46 Växjö, Sweden tel. +46 470 70 69 00 service@arcoma.se www.arcoma.se													
BMS Informationstechnologie GmbH Diesterweggasse 7/1 1140 Vienna, Austria tel +43 1 524 81 34 00 info@bms-austria.com www.easydose.eu							■						
Canon Electron Tubes & Devices Co., Ltd. 1385 Shimoshigami Otawara-shi, Tochigi 324-8550, Japan tel +81 287 26 66 66 https://etd.canon/eng		■			■				■				
Canon Europe NV Canon Medical Components Europe B.V. Bovenkerkerweg 59 1185 XB, Amstelveen, Netherlands drsales@mce.canon http://www.mce.canon/						■	■		■				
Ceifa s.c. Via Selice Provinciale 23A 40026 Imola (BO), Italy tel +390542653441 info@newtom.it www.newtom.it		■											
DEL MEDICAL 28 Calvert Street, Harrison, NY 10528, USA tel +1 800 261-9808 241 Covington Drive, Bloomingdale, IL 60108, USA tel +1 800 800-6006 www.delmedical.com									■				
DRGEM Corporation 7F, E-B/D Gwangmyeong Techno-Park, 60 Haan-ro, Gwangmyeong-si, Gyeonggi-do, Korea tel +82 2 869 85 66 sales@drgem.co.kr www.drgem.co.kr									■				
Philips Medical Systems DMC GmbH Röntgenstr. 24 22335 Hamburg, Germany marketing.dunlee@philips.com www.dunlee.com		■	■										
EXAMION GmbH Erich-Herion-Str. 37 70736 Fellbach, Germany tel +49 711 12 00 02-0 vertrieb@examion.com www.examion.com							■		■				
FUJIFILM Healthcare Europe GmbH Balcke-Dürr-Allee 6 40882 Ratingen, Germany http://www.fujifilm.com/		■	■		■	■	■		■			■	

	Computed Tomography	Magnetic Resonance Imaging	Injectors	Interventional Systems	Artificial Intelligence	IT Systems	Women's Health	R/F Systems	Molecular Imaging	DVD	Ultrasound	Testing Devices
GMM GROUP Via Partigiani, 25 24068 Seriate (BG), Italy tel +39 035 452 53 11 info@gmmspa.com www.gmmspa.com				■				■				
Guerbet BP 57400 95943 Roissy CdG Cedex, France tel +33 145 91 50 00 LF@guerbet.com www.guerbet.com			■			■						
I.A.E. S.P.A. Via Fabio Filzi, 53 20032 Cormano (MI), Italy tel +39 02 66 30 32 55 iaexray@iae.it www.iae.it	■			■			■	■				
IMAGE Information Systems Europe GmbH Lange Str. 16 18055 Rostock, Germany tel +49 381 496 58 20 info@image-systems.biz www.image-systems.biz						■						
IMD GENERATORS SRL Viale Matteotti 28/A 24050 Grassobbio (BG), Italy tel. +39 35 526344 info@imdxray.com www.imdxray.com	■			■			■	■				
IMS Giotto S.p.A. – GMM GROUP – Via Sagittario, 5 40037 Sasso Marconi (BO), Italy tel +39 51 84 68 51 imscmm@imgiotto.com www.imgiotto.com							■					
INTERMEDICAL SRL Via E. Fermi, 26 24050 Grassobbio (BG), Italy tel +39 035 659 48 11 info@inter-med.it www.inter-med.it				■				■				
medigration GmbH Dr.-Rudolf-Eberle-Str. 8–10 76534 Baden-Baden						■	■	■		■		
MEDTRON AG Hauptstr. 255 66128 Saarbrücken, Germany tel +49 681 970 17-0 info@medtron.com www.medtron.com			■									
Mesalvo GmbH Heinrich-von-Stephan-Straße 25 79100 Freiburg Deutschland						■						
SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD. Mindray Building, Keji 12th Road South Nanshan, Shenzhen 518057, China tel +86 755 81 88 89 98 intl-market@mindray.com www.mindray.com								■			■	

Companies & Suppliers

Company	Computed Tomography	Magnetic Resonance Imaging	Injectors	Interventional Systems	Artificial Intelligence	IT Systems	Women's Health	R/F Systems	Molecular Imaging	DVD	Ultrasound	Testing Devices
NEXUS / CHILI GmbH Friedrich-Ebert-Str. 2 69221 Dossenheim / Heidelberg, Germany tel +49 6221 180 79 10 sales@nexus-chili.com www.nexus-chili.com						■				■		
NORAS MRI products GmbH Leibnizstr. 4 97204 Höchberg, Germany tel +49 931 29 92 70 mri@noras.de www.noras.de		■										
NRT X-RAY A/S Birkegaardsvej 16 8361 Hasselager, Denmark tel +45 86 28 35 00 nrt@nrtray.com www.nrtray.com												
OR Technology Oehm und Rehbein GmbH Neptunallee 7c 18057 Rostock, Germany tel +49 381 36 60 06 00 info@or-technology.com www.or-technology.com						■		■			■	
Planmed Oy Sorvaajankatu 7 00880 Helsinki, Finland tel +358 20 779 53 00 sales@planmed.com www.planmed.com	■						■					
PTW Freiburg GmbH Lörracher Str. 7 79115 Freiburg, Germany tel +49 761 490 55-0 info@ptwdosimetry.com ptwdosimetry.com	■						■					■
QUART GmbH Kirchenweg 7 85604 Zorneding, Germany tel +49 8106 24 91 18 info@quart.de www.quart.de		■										■
Radcal Corporation 426 West Duarte Road Monrovia, CA 91016, USA tel +1 626 357 79 21 sales@radcal.com www.radcal.com												■
RTI Group Flöjelbergsgatan 8C 43137 Mölndal, Sweden tel +46 31 746 36 27 sales@rtigroup.com www.rtiigroup.com												■
SCHILLER AG Altgasse 68 6341 Baar, Switzerland tel +41 41 766 42 42 info@schiller.ch www.schiller.ch		■										
Siemens Healthineers AG Siemensstr. 3 91301 Forchheim Germany tel +49 800 188 188 5 www.siemens-healthineers.com	■	■		■	■	■	■	■	■		■	

	Computed Tomography	Magnetic Resonance Imaging	Injectors	Interventional Systems	Artificial Intelligence	IT Systems	Women's Health	R/F Systems	Molecular Imaging	DVD	Ultrasound	Testing Devices
STEPHANIX 10, Rue Jean Moulin 42150 La Ricamarie, France tel +33 477 47 81 60 contact@stephanix.com www.stephanix.com				■				■				
Swissray Technologies AG Turbistr. 25 6280 Hochdorf, Switzerland tel +41 41 914 12 12 info@swissray-technologies.com www.swissray-technologies.com				■		■		■				
Technix S.p.A. Via Fermi 45 24050 Grassobbio (BG), Italy tel +39 035 384 66 11 technixd@technix.it www.technix.it				■				■				
Transatlantic Siemensstr. 21-23 61267 Neu-Anspach, Germany tel +49 60 81 94 30 50 info@transat.de www.transatlantic.de			■									
Ultrasound Technologies LTD Lodge Way, Portskewett, Caldicot, South Wales, NP26 5PS, U.K. tel +44 12 91 42 54 25 ultratec@doppler.co.uk www.doppler.co.uk	■											
United Imaging Healthcare Poland Sp. z o. o. tel +48 532 792 666 14 Zwirki i Wigury Street 02-092 Warsaw, Poland 02-143 Warszawa https://eu.united-imaging.com/en	■	■						■	■			
VacuTec Meßtechnik GmbH Dornblüthstr. 14a 01277 Dresden, Germany tel +49 351 317 24-0 info@vacutec-gmbh.de www.vacutec-gmbh.de												■
VILLA SISTEMI MEDICALI s.p.a. Via delle Azalee, 3 20090 Buccinasco (MI), Italy tel +39 02 48 85 91 vsminfo@villasm.com www.villasm.com				■			■	■				
Ziehm Imaging GmbH Lina-Ammon-Str 10 90471 Nürnberg				■								



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Printed by

mgo360 GmbH & Co. KG, Bamberg

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