



OR 4Human

Advanced imaging solutions

Digital Radiography and Image Management

A guide for medical practices, clinics and hospitals



OR Technology

INSTANT DIAGNOSTIC IMAGING.



Digital X-ray images

any time, anywhere

for medical practices, hospitals
and emergency medicine



Amadeo™ X-ray systems

Mobile & stationary complete systems as well as portable X-ray units for digital radiography without cassettes

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Leonardo™ DR suitcase systems

Compact, lightweight suitcase and backpack solutions for wireless and portable X-ray imaging

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Medici™ DR retrofits

Digital retrofits for existing stationary and mobile X-ray systems

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X-ray accessories

Mobile stands, cassette holders, and X-ray tables (partly collapsible and mobile) designed to make work effortless and more efficient

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Acquisition software for X-ray systems with user-friendly graphical interface

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dicomPACS® image management and diagnostics

Software for processing, transferring and archiving images

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ORCA® cloud solutions

Cloud-based teleradiology and storage for images and patient records

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OR Technology is your partner in digital radiography for innovative X-ray systems and customised solutions for ambulatory and inpatient care – tried and trusted worldwide



Many excellent reasons

to place your trust in OR Technology

Active since 1991

... as a manufacturer of digital X-ray equipment and developer of image management systems. Our professional solutions are used in over 140 countries for stationary and mobile radiography, medical image management (PACS) and cloud-based archiving.

Comprehensive know-how

... based on decades of experience developing software for digital image processing in combination with specialised expertise in X-ray technologies. Close working relationships with physicians and universities significantly contribute to our innovative approaches.

Made in Germany

... means excellent quality and first-rate service for hardware and software.

Exceptional image quality

... through our in-house developed acquisition and image management software with excellent image optimisation, AI-assisted diagnostic tools (via a qualified third-party provider – optional), and the experience gained from thousands of installed digital X-ray systems.

User-friendly handling

... even for personnel with limited training. The multimedia X-ray positioning guide assists with patient positioning and software settings.

Best service

... for customers and distribution partners. OR Technology does not rely on external call centres. A support team with over 20 employees offers multilingual information and assistance (e.g., in Arabic, English, French and Spanish).

Low maintenance

... because there are no mechanical parts in the X-ray system that require regular upkeep (system dependent).

Ideal

... for all applications; ranging from mobile systems for first-aid services and intensive care stations to all-round X-ray equipment for hospitals, as well as compact systems for confined spaces in small medical practices. OR Technology has the widest product range on the market.

Tried and trusted

... worldwide. OR Technology's X-ray systems and software meet highest international quality standards.

Corporate sustainability

... with equal emphasis on environmental, social and economic aspects. Every day we rise to the challenge of developing our company in a sustainable manner and creating a positive working environment for our employees. We continuously strive to minimize our ecological footprint.





Amadeo X-ray systems





Stationary and mobile, all-terrain complete systems as well as portable X-ray machines for digital radiography without cassettes

The **Amadeo™ systems** combine modern digital X-ray technology, high image quality and efficient workflows. A range of stationary and mobile system solutions enables flexible adaptation to spatial conditions, examination requirements and individual clinical workflows – from compact swivel-arm systems to mobile X-ray solutions.

All Amadeo™ systems are designed to support fast, precise diagnostics with consistently high image quality while enabling cost-effective and efficient use in everyday clinical practice. The Amadeo™ complete systems include all components required for digital radiography and, depending on the model, are available in various detector and system configurations.

ORmed™ – the new generation of image acquisition

Our Amadeo™ X-ray systems are equipped with **ORmed™** – the new, high-performance acquisition software. This innovative solution offers maximum flexibility and manufacturer independence. ORmed™ features an intuitive user interface, while individually configurable professional image processing delivers high-quality images optimised for each anatomical region. The multimedia X-ray positioning guide supports users with radiographic positioning techniques and patient positioning, while integration with existing patient management systems helps ensure an efficient workflow.

In addition, lightweight, portable monobloc X-ray units are available for flexible applications – ideal for use in combination with digital detector systems.



Amadeo Z **motorised**

Looking for a compact, digital X-ray system for low ceiling heights that allows all radiological positions?

Fully motorised digital swivel-arm X-ray system

Amadeo Z motorised™ –
economical and space-saving system
for low ceiling heights

- **Flexible use:** patients sitting, standing or lying down (table optional)
- **Easy positioning:** five electric motors for precise movements
- **Intuitive operation:** 10" touchscreen, remote control and up to 60 positions
- **Easy alignment:** automatic 0° position of Bucky or stand
- **More comfort:** asynchronous Bucky tray and X-ray tube movement
- **High image quality:** detailed images at low radiation dose
- **Ideal for small rooms:** from 2.40 m ceiling height
- **Safe and efficient:** stitching, emergency stop and collision sensors
- **Optimised workflow:** ORmed™ with multimedia X-ray positioning guide

An overview of the digital swivel-arm X-ray systems can be found here:



Interested in equipping your medical practice with a full system, perfect for X-rays of patients in sitting, standing and lying positions?

Partly motorised U-arm X-ray system

Amadeo S motorised™ – reliable and compact X-ray equipment for wireless and fixed flat panel detectors

- **Flexible use:** X-ray examinations with patients standing, sitting or lying down (table optional)
- **Ideal for small rooms:** suitable for ceiling heights from 2.40 m
- **Fast positioning:** automated stand positioning and motorised adjustment of the examination-specific source-to-image distance
- **Intuitive operation:** 10" touchscreen with 60 preset positions for stand height, alignment and SID for each examination type
- **Flexible alignment:** rotatable detector and X-ray tube
- High image quality: detailed images at a low radiation dose
- **Maximum safety:** emergency stop buttons and collision sensors for ceiling height and detector position
- **Optimised workflow:** ORmed™ acquisition software



An overview of the digital swivel-arm X-ray systems can be found here:



Amadeo R **motorised**

*Looking for a versatile, digital X-ray system
ideal for small rooms in your busy medical practice?*

Fully motorised system with table and wall stand

Amadeo R motorised™ – universal
motorised X-ray system with floating
tabletop for confined spaces

- **Flexible use:** suitable for examinations with patients sitting, standing or lying down
- **Automatic alignment:** auto-tracking of X-ray tube, table Bucky and wall stand
- **Intuitive operation:** 10" touchscreen and wireless three-way footswitch for motorised table functions
- **Comfortable positioning:** six-way adjustable table with floating tabletop
- **High image quality:** detailed images at a low radiation dose
- **High load capacity:** patient table supports up to 350 kg
- **Space-saving design:** small footprint with full functionality
- **Integrated safety:** multiple emergency stop buttons
- **Optimised workflow:** ORmed™

An overview of the digital
universal X-ray systems
can be found here:



Amadeo R-DR

Would you like to equip your medical practice with a versatile complete X-ray system for examinations of patients lying down, sitting or standing – even where space is limited?

Universal X-ray system for confined spaces

Amadeo R-DR™ – Digital X-ray system with Bucky table and wall stand

- **Flexible use:** examinations with patients lying down, sitting or standing
- **Ideal for small rooms:** fully functional from just 7.20 m²
- **Easy positioning:** smooth-running tube stand and Bucky tray adjustable down to floor level
- **Comfortable positioning:** large four-way floating table
- **High image quality:** CSI detector for detailed images at a low radiation dose
- **High load capacity:** patient table supports up to 350 kg
- **Time-saving:** no need to rotate the 43 × 43 cm detector for portrait or landscape format
- **Efficient integration:** connection to existing patient management systems
- **Optimised workflow:** ORmed™ with integrated multimedia X-ray positioning guide



An overview of the digital universal X-ray systems can be found here:



Do you need a digital X-ray system for examinations of seated and standing patients, such as chest X-rays?

X-ray system for taking standing X-rays

Amadeo T™ – X-ray system for confined spaces for chest and other X-ray examinations of standing patients

- **Flexible use:** head-to-toe examinations of patients sitting or standing
- **Ideal for small rooms:** fully functional even where space is limited
- **Easy positioning:** X-ray tube and Bucky tray adjustable down to floor level
- Time-saving: no need to rotate the detector for portrait or landscape images
- **Rapid availability:** X-ray images available within 6 to 8 seconds
- **High image quality:** CsI detector for detailed images at a low radiation dose
- **Efficient integration:** patient data imported from the practice management system
- **Optimised workflow with ORmed™:** DICOM Worklist, over 400 projections, multimedia X-ray positioning guide and cloud connectivity

Further detailed information on the Amadeo T™ system can be found here:



Would you like to equip your practice with a versatile complete X-ray system featuring a smooth-running ceiling-mounted tube stand?

Ceiling-mounted system with Bucky table and wall stand

Amadeo C™ – the professional solution with a height-adjustable patient table for precise imaging

- **Flexible use:** examinations at the table and wall stand
- **Fast positioning:** motorised movements, auto-tracking and APR positioning
- **Intuitive operation:** 12" console with generator control and positioning aids
- **Comfortable positioning:** motorised height-adjustable six-way X-ray table
- **Optimised room use:** flexible ceiling rails and adjustable preferred positions
- **Time-saving:** auto-stitching and optional dual-detector system
- **High image quality:** CSI detectors for detailed images at a low radiation dose
- **Safe positioning:** electromagnetic locks and balanced **cable system**
- **Optimised workflow:** ORmed™ acquisition software



Further detailed information on the Amadeo C™ system can be found here:





Amadeo M-DR *mini*

Searching for a lightweight, complete digital solution for ambulatory and inpatient care?

Mobile X-ray system for hospital and outdoor use

All Amadeo systems
now with
automatic, **AI-based**
chest screening
to detect different
types of lung disease
optional
[more tools in development]

Amadeo M-DR mini™ – for use in the field as well as for bedside examinations and intensive care stations

- **Flexible use:** head-to-toe examinations with patients lying down, sitting or standing
- **Lightweight and mobile:** easy to transport and use wherever needed
- **Independent operation:** fully battery-powered with no external power supply required
- **Long operating time:** up to 8 hours on standby
- **Easy positioning:** stable on uneven surfaces with a swivelling generator arm
- **High image quality:** high-resolution detector for detailed images
- **Safe examinations:** low housing radiation and a controlled area of less than 1.5 m*
- **Intelligent support:** optional AI-based chest screening
- **Optimised workflow:** *ORmed™* incl. remote control, cloud connectivity, X-ray positioning guide

* depending on the X-ray source used

Further detailed information on the Amadeo M-DR mini™ system can be found here:



*Searching for a portable X-ray unit
ideal for work in medical practices,
hospitals and ambulatory care?*

Lightweight, portable X-ray generators

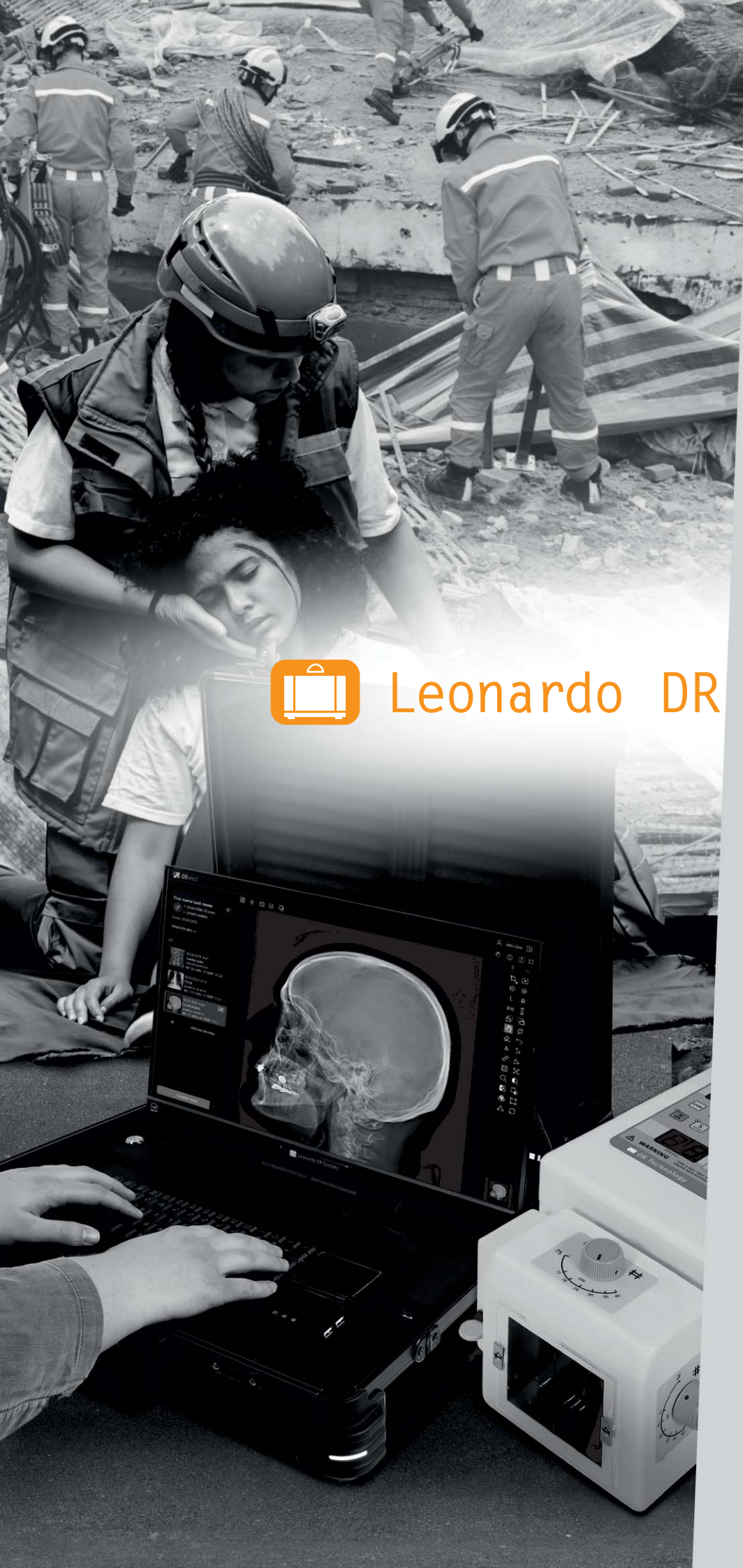
Amadeo P™ – High-frequency
X-ray generators for portable X-ray
imaging in emergency medicine

- **High image quality:** high-quality X-ray images with modern high-frequency technology
- **Powerful and compact:** high performance in a compact format
- **Flexible use:** suitable for practices, clinics and mobile applications
- **Easy to transport:** lightweight design for mobile use
- **Intuitive operation:** user-friendly and straightforward handling
- **Easy connection:** operates from a standard 220 V or 110 V power supply
- **Digital integration:** interface for digital X-ray detector systems
- **Choice to suit your needs:** available with or without a battery, depending on the model
- **Fully mobile:** cordless battery operation



Further detailed information
on the Amadeo P™ system
can be found here:





Leonardo DR Systems



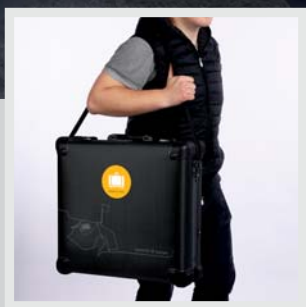
Compact case and backpack solutions for mobile use in medical emergencies

The extremely lightweight Leonardo™ DR case and backpack solutions are a digital, space-saving addition to portable X-ray units and also provide an ideal solution for switching from CR to direct digital radiography. All required components, including cables, are stored compactly in the case or backpack. Simply open it, switch it on and you are ready to go.

With such a compact solution, excellent DICOM images can be acquired, processed, reviewed and archived within a very short time. The system is easy to operate, enabling even personnel with limited radiological training to produce high-quality X-ray images. The systems operate reliably under almost all conditions and require very little maintenance. Leonardo™ systems are available in different sizes with various imaging areas.

The integrated professional *ORmed*™ acquisition software features a modern, intuitive user interface. X-ray examinations can be planned and performed conveniently via the monitor. Image processing can be flexibly adapted to different user requirements and ensures outstanding image quality. Powerful image processing algorithms enable organ-specific optimisation and deliver high-quality X-ray images.

The integrated multimedia X-ray positioning guide supports personnel with guidance on correct radiographic positioning techniques and patient positioning. The software also enables fast, global and cost-effective information exchange via cloud or email. In addition, *ORmed*™ can be seamlessly integrated with existing patient management, HIS or RIS systems.



Leonardo DR mini III

Looking for long battery life, wireless operation and large, razor-sharp X-ray images?

The gold standard among the X-ray cases

Leonardo DR mini III™ – very light X-ray system with large monitor and extremely long battery life

- **Large display:** anti-glare 21.5" Full HD touchscreen
- **Extremely long battery life:** up to 500 exposures without recharging
- **Very low case weight:** only 9.5 kg despite the large HD monitor (excluding detector)
- **Razor-sharp X-ray images:** proven image processing used worldwide
- **Flexible detector sizes:** space for 25 × 30 cm and 35 × 43 cm detectors incl. protection box
- **Mobile use:** suitable for practices, clinics, home care and disaster relief
- **Robust:** shock-absorbing, splash-resistant transport case
- **Convenient:** battery replacement during operation
- **Optimised workflow:** ORmed™ incl. remote control*, cloud connectivity, X-ray positioning guide

* optional

An overview of the compact DR case and backpack solutions can be found here:







Leonardo DR Go

Are you looking for a compact, mobile system for tuberculosis control?

Portable complete X-ray system

Leonardo DR Go™ - complete system weighing under 30 kg in a virtually indestructible Peli™ Storm Case™

- **Fully mobile:** digital X-ray system with generator, detector, notebook, stands and accessories
- **Safe transport:** shock-resistant storage in a robust Peli™ Storm Case™, dust-tight and water-resistant to IP67
- **Easy to move:** rugged wheels and two-stage telescopic handle
- **Long operating time:** up to 300 exposures and 8 hours of detector operation
- **Flexible positioning:** lightweight carbon stand and adjustable detector holder
- **High image quality:** digital system for detailed images available immediately
- **Intelligent assessment:** optional AI-based chest screening for tuberculosis detection
- **Optimised workflow:** ORmed™ including X-ray positioning guide and cloud connectivity

An overview of the compact DR case and backpack solutions can be found here:

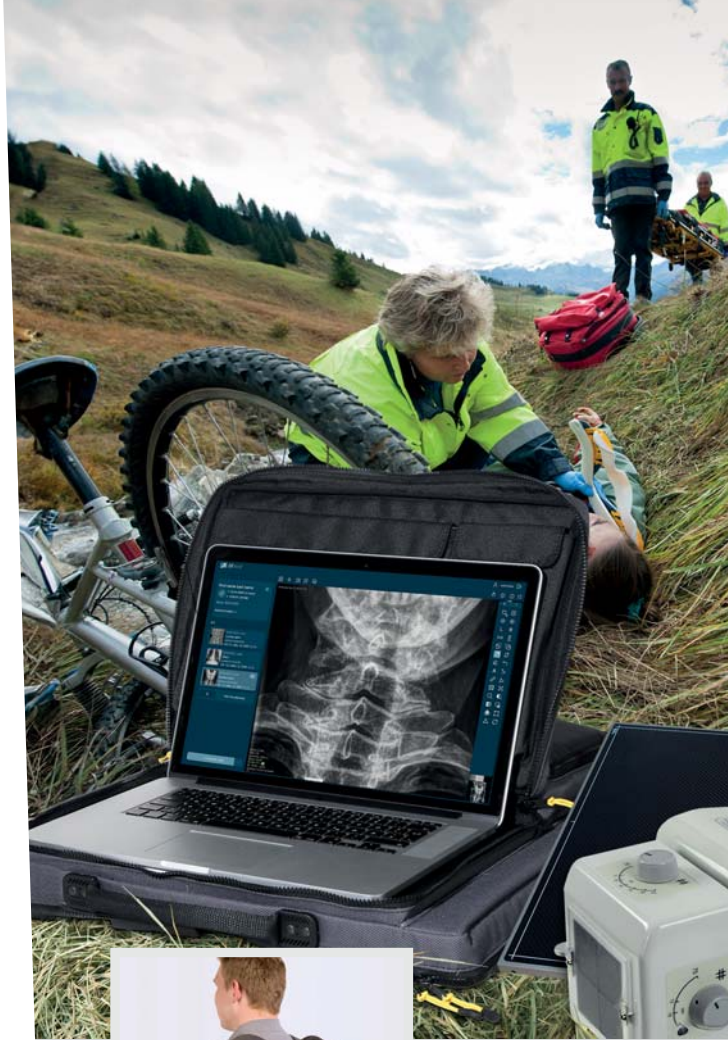
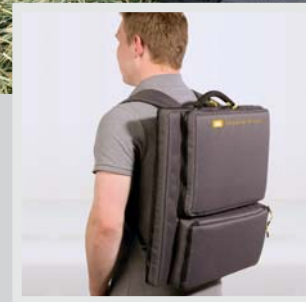


Searching for a rugged, portable digital solution to complement your existing mobile X-ray equipment?

Super lightweight backpack X-ray system

Leonardo DR nano™ - one of the lightest portable X-ray solutions worldwide

- **Wireless X-ray:** ready to use quickly, with no obstructive cables
- **Easy to transport:** only approx. 9 kg including laptop, accessories and detector
- **Quick to set up:** ready for use in just a few simple steps
- **Flexible transport:** backpack with stowable shoulder straps, also usable as a carry bag
- **Safely packed:** padded compartments and shock-absorbing protective material
- **High image quality:** CsI detector for excellent images at a low dose
- **Convenient control:** smartphone as an optional remote control with image preview
- **Optimised workflow:** ORmed™ including X-ray positioning guide and cloud connectivity for easy image sharing with colleagues and specialists



An overview of the compact DR case and backpack solutions can be found here:





Medici DR Systems





DR detector retrofit kit for digitising existing stationary or mobile X-ray systems

Medici™ DR systems enable the simple digitisation of existing stationary or mobile X-ray systems. Thanks to AED (Auto Exposure Detection), installation requires no intervention in the X-ray system and no modifications to the system or cable connections. Installation is as straightforward as with a CR imaging plate system.

The DR retrofit kit significantly optimises your workflow: X-ray images appear on the screen within seconds, without any intermediate steps. Cassettes are no longer required. Different detector brands and sizes allow the system to be configured to suit your individual needs.

The *ORmed*™ acquisition software is operated intuitively via touchscreen, adapts to your workflow and provides X-ray images of consistently high, reproducible quality. The software incorporates all functions required to operate the X-ray system. Thanks to automatic user-specific image processing, very little post-processing is required.

All Medici™ systems can be integrated into your practice management system and transfer X-ray images to an image management system (PACS). If you do not yet have such a system installed but would like to distribute images within your practice or clinic, or share them with colleagues or patients via the internet, our *dicomPACS*® image management system provides the required functionality.



Medici DR Systems [stationary]

Interested in transitioning your conventional, stationary X-ray system to digital with minimal effort?

Upgrading stationary X-ray systems

... with a **Medici™** DR System:
Trouble-free digital retrofits with
tethered flat panel detectors

- **Cost-effective modernisation:** retrofit your existing X-ray system instead of replacing it
- **Easy installation:** thanks to AED, no intervention or modification of the X-ray system and no new cable connections
- **Individually configured:** wide choice of wired and wireless detectors
- **Almost universally compatible:** available for nearly any stationary X-ray system
- **High image quality:** CsI detectors and automatic image processing for diagnostic-quality images
- **Rapid availability:** X-ray images available just 6 to 8 seconds after exposure
- **Central control:** touchscreen console for generator control, image acquisition and processing
- **Optimised workflow** with ORmed™

Further detailed information
on the Medici retrofit kit can
be found here:

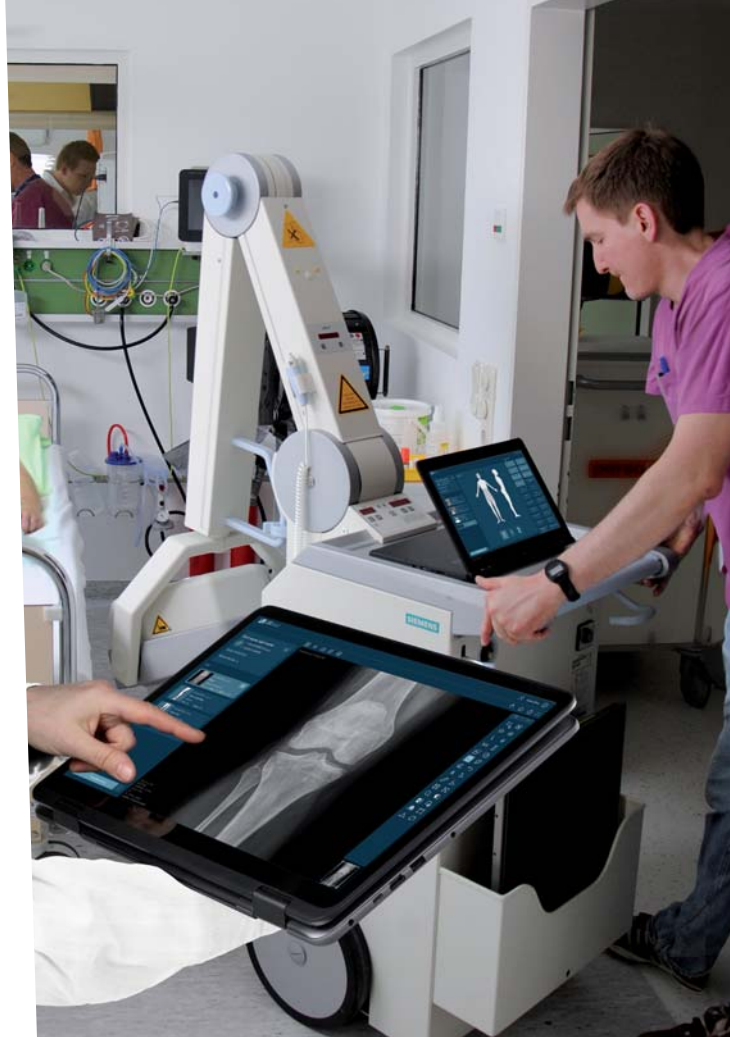


*Interested in upgrading your current mobile
X-ray unit to digital?*

DR upgrade for mobile X-ray equipment

... with a **Medici™** DR System:
digital X-ray images of consistently
high diagnostic quality

- **Efficient investment:** easily retrofit your mobile X-ray system with digital technology
- **Wireless operation:** X-ray images displayed directly on a tablet or laptop
- **Flexible configuration:** various detector sizes and manufacturers available
- **Location-independent operation:** image acquisition directly via tablet or laptop (Touchbook/Ultrabook)
- **High image quality:** CsI detectors and automatic image processing for immediately diagnostic-quality images
- **Rapid availability:** X-ray images available within 6 to 8 seconds
- **Adapted workflows:** software optimised for mobile applications
- **Seamless integration:** connection to patient management systems and PACS
- **Optimised workflow** with ORmed™



Further detailed information
on the Medici retrofit kit can
be found here:





X-ray accessories





X-ray equipment for maximal flexibility in medical practices, hospitals and ambulatory care

For both mobile and stationary X-ray systems, the imaging process needs to be simple, fast and safe. Different patient sizes also place particular demands on an X-ray system. Systems, tables and stands should support comfortable working and be suitable for a wide range of patients – from small children to obese patients weighing more than 200 kg.

By switching from analogue X-ray technology to computed radiography, you benefit from the advantages of digital imaging, improve image communication workflows and choose an environmentally friendly X-ray system with minimal radiation exposure.

A wide range of variants and systems is available for different radiological applications.

The X-ray accessories offered by OR Technology can be combined with all DR and CR systems in the OR Technology product range as well as with the corresponding software solutions.



X-ray accessories

Searching for a high-quality patient table with sturdy construction and high load-bearing capacity?

Premium patient tables for ease of working

Patient tables with high load-bearing capacity for mobile and stationary X-ray systems

Our new generation of patient tables is specifically designed for radiographic use. All tables offer maximal convenience and flexibility, and some models are height-adjustable. Castors of moveable patient tables are equipped with locking brakes to ensure safe working conditions. A large number of systems and versions are available for various applications:

- *mobile patient tables with programmable, motorised height adjustment and floating table top (battery operation available) – with a load bearing capacity of 225 kg*
- *mobile, lightweight patient tables (under 50 kg) without motor for various uses, load bearing capacity 150-210 kg (depending on the model)*

X-ray accessories

Searching for radiographic stands for your mobile or stationary X-ray system?

Mobile stands, cassette holders & wall mounts

Accessories for maximal flexibility during ambulatory and stationary examinations

Variation in patient size represents a significant challenge for manufacturers of radiography equipment and accessories. All our X-ray accessories, including mobile stands, wall mounts and various other stands, offer maximal convenience and flexibility. OR Technology's X-ray equipment is compatible with all DR and CR systems on offer, as well as with our software solutions.

- *Collapsible mobile stands for portable X-ray units, assembly in less than 10 seconds*
- *Collapsible mobile stands for X-ray detectors (DR) and CR systems*
- *Spring arms for mounting portable X-ray units on walls or ceilings*
- *Various stands for cassette holders, medical carts, knee supports, etc.*





X-ray accessories

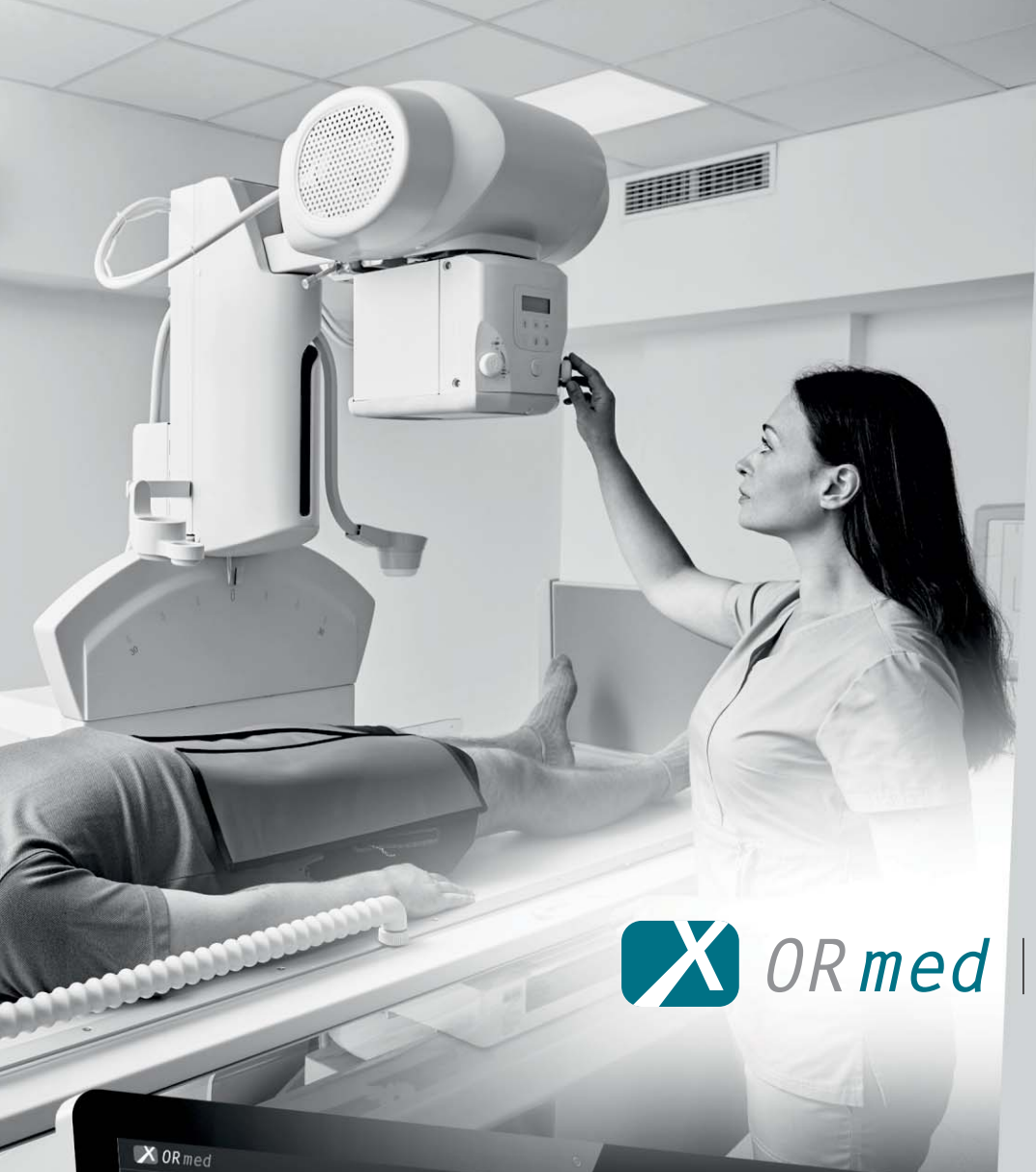
Searching for an extremely lightweight detector holder for ambulatory X-ray examinations?

Smallest mounting system for detectors

VersariX™ - detector holder with mounts for attachment to doors, walls, tent poles and tree branches

- **Extremely lightweight:** only approx. 400 g and easy to transport
- **Versatile use:** ideal for confined spaces and unusual locations such as care homes or medical tents
- **Flexible mounting:** can be attached to doors, hooks, screws or branches
- **Easy positioning:** detector height can be adjusted almost continuously
- **Versatile applications:** suitable for imaging the skull, thorax and extremities
- **Suitable for all detectors:** can be used with or without a protective cover
- **Secure support:** stable hook for detectors weighing up to 10 kg
- **Easy to clean:** hygienic and resistant to disinfectants
- **Made in Germany:** developed by OR





X-ray software
at the next level





Professional *ORmed*[™] acquisition software for static and dynamic X-ray imaging with DR systems

ORmed[™] is a versatile **software solution for X-ray image acquisition and is compatible with DR detector systems from various manufacturers**. The software enables the control of compatible X-ray generators and systems from different manufacturers, supporting smooth and efficient workflows. Its user-friendly interface can be operated via touchscreen or mouse, ensuring simple and intuitive handling.

Professional image processing can be adapted to specific user requirements and delivers outstanding image quality. Powerful image processing algorithms enable organ-specific optimisation and ensure **X-ray images of consistently high quality**.

The multimedia X-ray positioning guide assists with radiographic positioning techniques and patient positioning. Intuitive operation further simplifies everyday workflows and contributes to a noticeable increase in efficiency.

ORmed[™] also enables **seamless integration with existing patient management systems**.

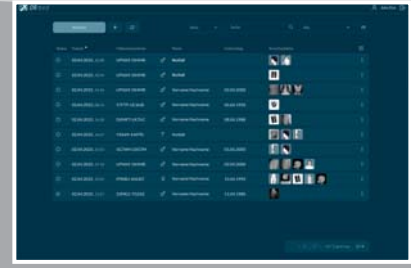
As a central component of digital X-ray systems, *ORmed*[™] is suitable both for retrofitting existing X-ray equipment and for new complete systems with generator control, as well as for mobile case solutions used in combination with portable or mobile X-ray generators.



→ Detailed description of the software

Benefits of the acquisition software:

- Modern graphical user interface (GUI), **adaptable to virtually any language version**
- **Touchscreen operation** for fast, efficient working and optimised workflows
- Patient data can be imported via **DICOM Worklist**, through the IT infrastructure via REST API or other protocols; manual entry is also possible
- Use of **DICOM Procedure Codes** to transfer all relevant examination data directly from the connected patient management system (HIS/RIS)
- **Free configuration** of the body regions already included in the system, with more than **400 projections** and numerous positioning options (on request)
- Fast and secure **registration of emergency patients**
- Allows users to **switch between a patient's planned examinations**, helping to reduce the need for repeated patient repositioning
- Enables **images to be added retrospectively** to an examination, even after it has already been completed
- **Examination workflows can be saved as macros** and are partly AI-assisted, e.g. automatic AI-based chest screening to detect different types of lung disease (optional)
- **Fully integrated multimedia X-ray positioning guide** supporting correct radiographic positioning techniques for each examination, including numerous instructions, photos, videos and examples of correctly acquired X-ray images



Benefits of flexible image acquisition and precise exposure control

- **Flexible integration of DR and CR systems**
ORmed™ processes raw image data from DR and CR modalities into diagnostic-quality X-ray images.
- **Central control of detector and generator**
 Connected detectors can be configured; when generator control is enabled, X-ray parameters are transferred directly from *ORmed™* to the generator.
- **Faster workflows with examination presets**
 Predefined parameters for kV, mA, s and mAs, together with image processing settings, support standardised and efficient acquisition workflows.
- **Individual adjustment of parameters**
 Exposure values can be checked before acquisition and adjusted according to patient size, body-part thickness and exposure requirements.
- **Reliable documentation of exposures**
 The X-ray parameters actually used are recorded in the examination data and stored in the DICOM image file.
- **Key acquisition information at a glance**
 Depending on the system configuration, *ORmed™* displays information on AEC, DAP and grid use in acquisition mode.
- **Body-part-specific settings**
 Preconfigured exposure parameters simplify the preparation of different examinations and support standardised, reproducible acquisition conditions.

Further detailed information on the acquisition software can be found here:





→ Detailed description of the software

ORmed[™] Cognition Optimised Processing (COP) includes:

ADPC – automatic dead pixel correction

Automatically eliminates dead pixels – this reduces the need to calibrate the flat panel

AIAA – automatic image area analysis

Automatically analyses each image for soft tissue and bone structures and applies the most suitable image processing algorithms

MFLA – multi frequency level analysis

Analyses each image on various frequency levels for ideal sharpness and high subtle contrast

ANF – automatic noise filter

Algorithm for optimal noise reduction

GLI – gridless imaging

Exposures without grid: enables the display of an image as if it had been taken with a grid – this is useful for supine chest exposures (bedside).

AGLS – automatic grid line suppression

Automatically removes gridlines from flat panel images – suitable for grids from 100 LPI to 200 LPI

IBC – intelligent brightness control

Automatically displays the image at the ideal level of brightness

ACO – automatic contrast optimisation

Automatic contrast equalisation across the entire image – this enables the optimal display of soft tissue and bones at the same time

ABBS – automatic black border shutter

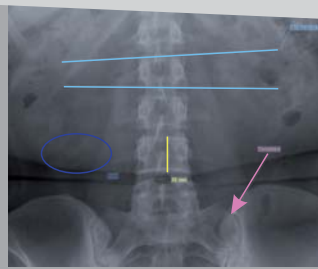
Automatically darkens all parts of an image outside the collimated area – varying degrees of transparency are available and manual adjustments are easy to make.



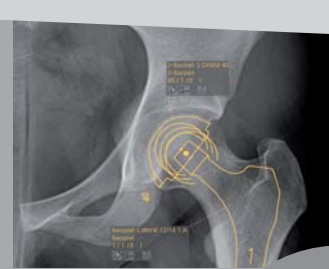
Dynamic X-ray: acquisition, assessment and archiving of image sequences



Professional image processing: automatic optimisation with manual adjustment options



Standard annotations: various measurement and labelling tools



Prosthesis documentation: surgical planning

Automated,
**AI-based thoracic
screening** to detect
different types of
lung diseases
(optional)



Automatic image processing for optimum quality

ORmed™ automatically processes the raw images received from the detector into display-ready X-ray images. If the processed image meets the required criteria, it can be accepted directly. Additional image optimisation tools are available for individual adjustments.

Examination-specific image processing

Image processing, the relevant image region and image orientation can be preconfigured and adjusted for each examination.

Consistent image display

Digital image processing compensates for variations in exposure within defined limits and helps maintain largely consistent brightness and contrast.

Reliable exposure quality control

Exposure Index, Target Exposure Index and Deviation Index facilitate exposure monitoring and are stored in the DICOM header.

Targeted prevention of incorrect exposure

AEC, paediatric weight classes, as well as body-part and weight corrections support users in selecting suitable exposure parameters.

Efficient workflow

Automatic processing and preconfigured settings reduce manual effort and enable reproducible results.

Special functions and modules

Support for preoperative planning: 100% display, zoom, measurement and annotation tools support image viewing and assessment.

Stitching of X-ray images: large examination areas can be displayed in full by combining multiple overlapping images into one anatomically consistent overall image.

Useful tools and additional functions: a wide range of tools for displaying, checking and editing acquired images, including zoom, magnifier, measurement and annotation functions.

Further detailed information
on the acquisition software
can be found here:





dicom PACS®



Innovative digital image management solution for small medical practices and large radiology networks

dicomPACS® is a picture archiving and communication system that connects, controls and manages everything having to do with your X-ray images: ranging from exposure and image analysis to archiving and communication.

The *dicomPACS*® software can help your dream of a paperless practice come true. With *dicomPACS*®, images and all types of documents (e.g., medical findings and reports, faxes) are stored in a digital patient folder and readily accessible.

Our sophisticated archive and backup solutions guarantee both quick access to all data and high security standards in keeping with international guidelines for human medicine. Furthermore, the *dicomPACS*® software can easily be integrated into all common practice management systems.

The *dicomPACS*® software covers image management, reporting, transfer and archiving. Developed in close cooperation with medical specialists, it provides an intuitive and well-designed solution for everyday diagnostic workflows. Thanks to measurable additional revenue, *dicomPACS*® often pays for itself sooner than expected.

With thousands of installations worldwide, the system has proven itself many times over. *dicomPACS*® is the perfect solution for simple image processing tasks and complex radiological networks alike.



Searching for an intelligent image management system with a reliable archiving and backup solution?

PACS basic package for professional image diagnostics

Image management for processing, reporting, transfer and archiving of image data

In addition to basic functions such as image and patient management, image optimisation, measurement, marking, editing, import, export and printing, *dicomPACS*® includes a DICOM receive/archive module for receiving and archiving DICOM images, as well as a patient CD module for creating patient CDs including a free viewer. A scan module for connecting film or document scanners is also integrated.

dicomPACS® also includes various documentation modules, all tools required for the professional assessment of cross-sectional images, for example from CT or MRI examinations, as well as specialised filters and measurement tools. An optional AI-assisted diagnostic service provided by a qualified third-party provider is also available.

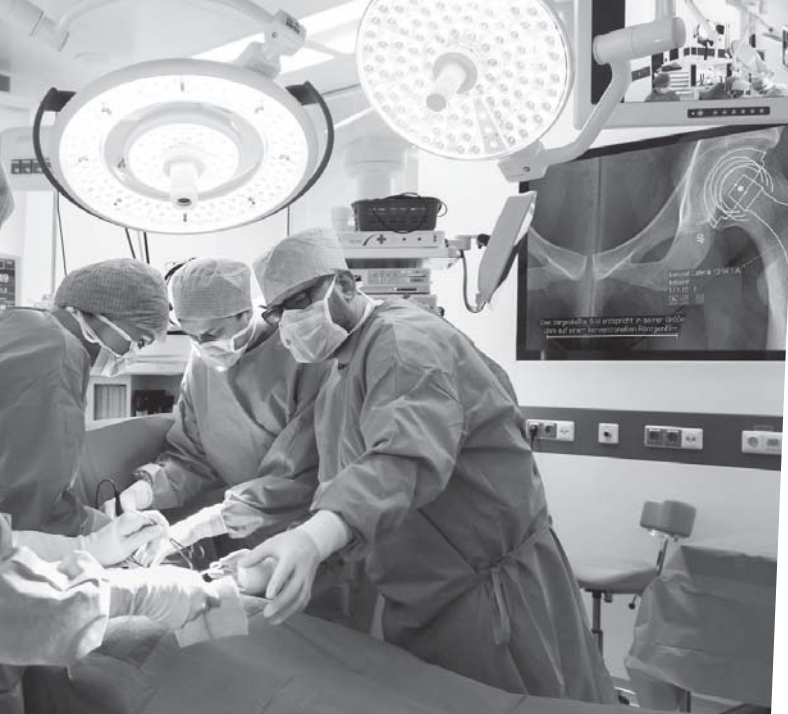
Further detailed information on the *dicomPACS*® basic package can be found here:



Benefits of the basic package at a glance

- *dicomPACS®* includes a wide range of specialised functions and modules as well as professional tools
- Full-featured diagnostic software – complete functionality for all workstations in your practice, with no light versions
- User-friendly, clear and well-structured interface requiring minimal training and a short familiarisation period
- User interface can be individually adapted to your specialty and requirements
- Flexible assignment of keyboard shortcuts to numerous functions for fast working without a mouse
- Parallel processing allows users to continue working while, for example, a CD is being created
- Permanent online availability of all images and data across the network – no need to archive older images on external media
- “Perfect memory” – images reopen with all previously applied markings and settings, including zoom and orientation
- Parallel reporting for multiple patients by opening any number of program windows without loss of performance – depending on available RAM
- Import of any external documents, such as medical letters, faxes or X-ray images – no additional module required
- Installation possible under Windows and macOS
- Optimum data security, speed and compatibility through the use of standardised SQL database technology
- All images and documents stored exclusively in the international DICOM standard





Additional software modules [excerpt]

dicomPACS® is a picture archiving and communication system (PACS) and it performs many different, at times highly complex tasks. It connects, controls and administrates everything related to your images: from the acquisition of images and the compilation of diagnostic reports to the archiving and transfer of image data. It ensures that the images can be distributed quickly and without complications and viewed e.g. via the web server. In addition, the system is extremely flexible and open for many applications.

- **Prosthesis documentation** – enables preoperative prosthesis planning using digital prosthesis templates from one or more manufacturers
- **Reporting module** – for convenient creation of various reports, e.g. surgical or ultrasound reports, including Word macros with images and a digital dictation system
- **Statistics module** – enables flexible analysis of the entire data set
- Optional **AI-assisted diagnostic service** provided by a qualified third-party provider
- ***dicomPACS® MobileView*** – enables image distribution within hospitals or to referring physicians via the internet and ensures rapid availability of images in original DICOM quality
- **Cloud-based telecommunications solution ORCA®**
- **Processing of CT and MRI series** – *dicomPACS®* includes professional tools such as MPR and MIP for the assessment of cross-sectional image series
- **“Upper Cervical (NUCCA) Chiropractic” tool set** – tools for precise diagnosis and planning of further chiropractic treatment
- **Hanging Protocols**
- **Special function for mammography reporting**
- **Teleradiology**
- **Special solution for distributed archives**

Searching for a viewer that enables worldwide access to all image data, e.g., so that on-call hospital doctors can make a quick first assessment?

Web-based viewer for all devices

Images and documents
any time, anywhere

The web-based viewer *dicomPACS® MobileView* is one of the many extension modules of the *dicomPACS®* diagnostic software.

This application can be used with practically all browsers to view image material on mobile devices both inside and outside hospitals and medical practices. When connected to the internet, doctors and caregivers can access all image files worldwide using the *dicomPACS®* system.

In addition to image diagnostics, the viewer can generate and export diagnostic reports. Similarly, documents can be attached and exchanged using the software. When viewing a patient record, all reports for the patient are displayed. Individual findings may be selected, formatted and exported.





ORCA®



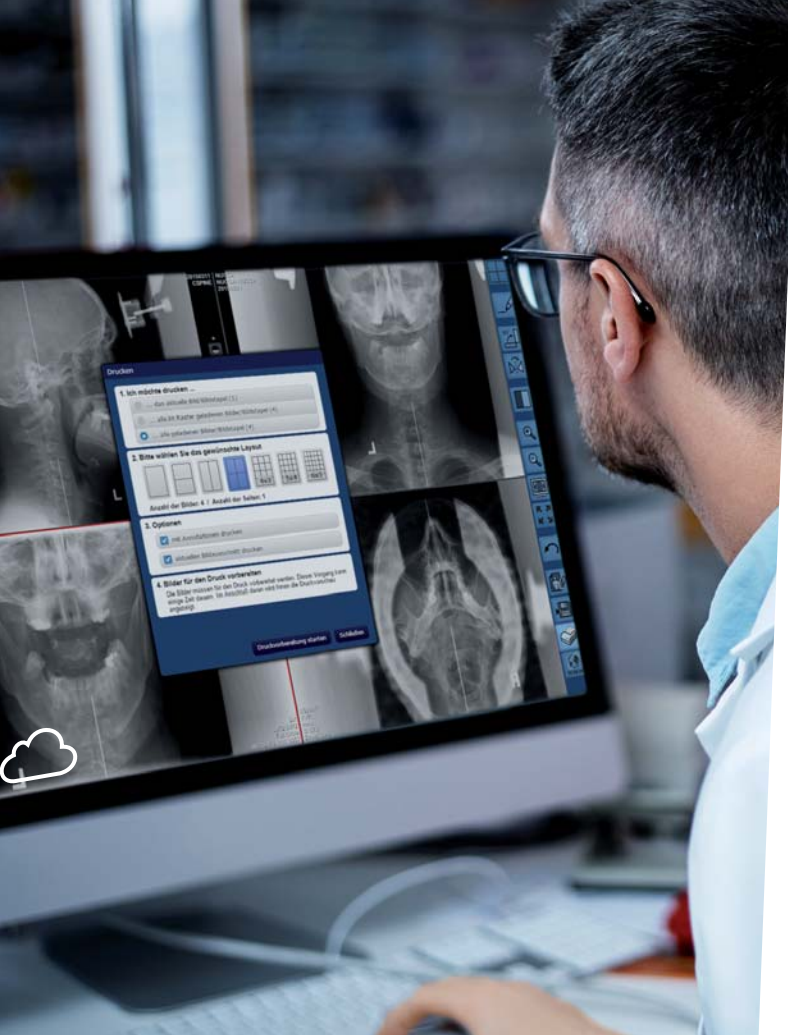
Cloud-based archiving, viewing and transfer of medical images

A daily challenge in medicine is processing the large volume of images generated by modern equipment. Diagnostics greatly benefits from advanced, high-quality imaging techniques and at the same time is faced with ever-growing data volumes.

ORCA® (OR Technology Cloud Archiving), a platform based on cloud computing, is specially designed for storing, viewing and sharing medical images. The DICOM cloud is useful in many different situations: at the home office and for consultations with multiple specialists or even at sea.

ORCA® makes everyday work in medical practices and hospitals easier, cheaper and more progressive. Medical images and documents can be centrally archived in compliance with highest security standards. The service is scalable, allowing for adjustments in storage space as demand grows.

Not only does ORCA® provide third parties with hassle-free access to images and data, it is straightforward to use and helps optimise workflow. ORCA® View, included in the ORCA® package, is a cross-platform program for all browsers and mobile devices. Using ORCA® View, images can not only be viewed, but also processed and analysed using various measurement tools. The program also provides different templates for generating reports. ORCA® View is web-based and requires no local software installation.



ORCA® Archive

Cloud-based X-ray image archiving

Archiving and backup solution

ORCA® Archive for practices, clinics
and hospitals

ORCA® Archive provides storage for image files from direct sources (e.g. digital X-ray, CT, MRI and ultrasound machines) as well as from Picture Archiving and Communication Systems (PACS) in a cloud-based archive. ORCA® Archive can also be used as an additional backup solution.

Wherever the internet is accessible, images archived in the cloud can be viewed and analysed at maximal resolution and quality (DICOM) via the integrated, browser-based ORCA® View program and our diagnostics software *dicomPACS*®.

If you are using a different PACS, images can be downloaded from ORCA® for viewing locally.

Further information
about ORCA®
is available here:



**ORCA® Share**

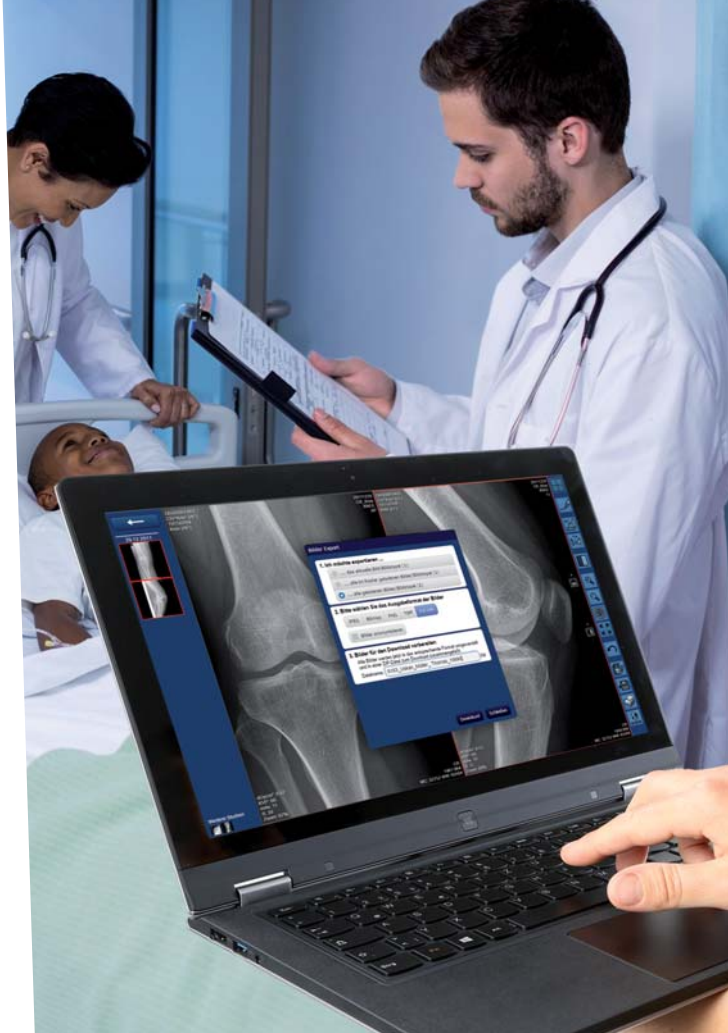
Communication platform and tele-medicine solution

Easy image viewing and sharing for medical professionals via **ORCA® Share**

ORCA® makes everyday work in practices and clinics easier, cheaper and more sophisticated. ORCA® Share is a tool for sharing images and medical findings with doctors and other authorised persons. The service is scalable, allowing adjustments in storage space as demand grows.

ORCA® Share is a platform for communication with external partners. Images and reports can be shared with staff, colleagues and specialists via ORCA®.

ORCA® Share can also be used to give patients access to medical reports and images. Recipients are sent a secured access link to specific files via email. There is no need to install software locally.



Further information about ORCA® is available here:





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