Digital Radiography and Image Management
A guide for medical practices, clinics and hospitals
Digital X-ray images time, anywhere
for medical practices, hospitals and emergency medicine

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

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

Medici DR retrofits
Digital retrofits for existing stationary and mobile X-ray systems

Divario CR systems
Compact, high-speed desktop units for digital radiography using imaging plate cassettes

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

dicomPACS® DX-R X-ray acquisition software
Acquisition and diagnostic software for X-ray systems with user-friendly graphical interface

dicomPACS® image management and diagnostics
Software for processing, transferring and archiving images

ORCA cloud solutions
Cloud-based teleradiology and storage for images and patient records
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.
Our stationary and mobile Amadeo full systems are specially designed for quick and professional diagnoses, cost-effective performance, as well as reliable and exceptional image quality. The systems include all components and functions necessary for digital X-ray imaging without cassettes. Amadeo systems are available for conventional computed radiography (CR) as well as for fully integrated digital radiography with fixed and wireless flat panel detectors.

The integrated dicomPACS®DX-R console software offers all tools necessary for working with the X-ray system: from generator control to the display of high quality images for diagnostic evaluation. All settings are adjusted at a single control panel.

The professional image processing software produces images of outstanding quality and can be adapted to special customer needs. High-performance image processing allows organ-specific optimisation and guarantees top-quality X-ray images. Everyday veterinary care is made easier by an array of integrated functions (e.g., a multimedia X-ray positioning guide) and an intuitive design. Furthermore, the dicomPACS®DX-R software can readily be interfaced with existing patient management systems.

See detailed description of software beginning on page 31

In addition, we offer portable, lightweight monoblock X-ray machines for greater flexibility. The generator’s integrated interface for connecting to digital X-ray detectors makes these portable Amadeo systems suitable for a wide range of radiographic applications.
Searching for a compact, digital X-ray system for low ceiling heights that allows all radiological positions?

Fully motorised U-arm X-ray system

**Amadeo Z** - economic and space-saving system for low ceiling heights

Stationary **Amadeo Z** radiography systems are fully motorised, compact, and designed for ceiling heights over 2.4 m. They are suited for all radiographic examinations, including full spinal and leg imaging via stitching. An optimised workflow saves time and personnel resources. The entire system is controlled via our professional acquisition and diagnostic software, **dicomPACS® DX-R**. See detailed description of software on pages 31-35

The U-arm can be positioned easily within seconds, using either motorised or manual modes of operation. Four electric motors facilitate accurate and effortless U-arm adjustment for patients in sitting, standing and lying positions (examination table is optional).
Amadeo S Systems

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

Compact U-arm X-ray system

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

The U-arm X-ray system Amadeo S features a universal imaging stand and has an optional mobile patient table. A special cross arm and a long vertical travel range allow images to be taken of patients in standing, sitting and lying positions.

The ergonomic handles allow the device to be moved and turned safely with only one hand. With the stand, a maximum central beam height of 170 cm and a minimum height of 27 cm above the ground can be attained. Optionally, the Amadeo S can be supplied with a height-adjustable Z-arm for lateral images of lying patients.

The dicomPACSt DX-R control panel operates the entire X-ray system. See detailed description on pages 31-35.

Further information about the Amadeo S system is available here:

For more detailed information please see: www.or-technology.com
X-ray system with Bucky table and wall stand

**Amadeo R** - universal X-ray system with floating table top for confined spaces

Designed for easy handling and straightforward operator control, the **Amadeo R** comes with a Bucky table and wall stand. The professional acquisition and diagnostic software, **dicomPACS® DX-R**, is user-friendly and easy for staff to operate. → See detailed description of software on pages 31-35

The X-ray tube assembly and Bucky tray of the wall stand can be lowered to ground level. The large floating table top supports virtually all patient sizes. A small table top is an optional for confined spaces.

Various features, including auto-tracking and stitching, help optimise workflow in busy radiology departments.
Amadeo C Systems

Interested in equipping your medical practice with a universal full system and practical ceiling mount?

Ceiling-mounted system with Bucky table and wall stand

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

The Amadeo C ceiling-mounted X-ray system with Bucky wall stand and height-adjustable Bucky table makes positioning patients effortless for even the most complicated exposures. The system can be configured to fit into almost any room. The floating table top of the height-adjustable Bucky table with high load-bearing capacity is ideal for routine examinations. The Bucky wall stand can be set up as a free-standing unit, is equipped with electromagnetic brakes, and can be used for full spine X-rays.

The dicomPACS®DX-R operating console controls the entire X-ray system: from operating the X-ray generator to the finished superb quality image for diagnostic evaluation. See detailed description of software on pages 31-35
Searching for a lightweight, complete digital solution for ambulatory and inpatient care?

Mobile X-ray system for hospital and outdoor use

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

The **Amadeo M mini** system includes all necessary components, including our globally proven acquisition and diagnostic software package with a convenient X-ray guide for optimal patient positioning (except for AX version).

See detailed description of software on pages 31-35

X-ray exposures of all sections of the human trunk are possible. The **Amadeo M mini** can be easily transported due to its low overall weight and compact design. Our modern digital X-ray system can be employed wherever it is not possible to quickly transfer patients to a hospital for diagnostic radiology. The system can easily be pulled over steps, swivelled in all directions, and does not tip over on uneven ground.
Amadeo P Systems

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-quality X-ray images are no longer a problem for portable monoblock X-ray units. Modern high-frequency technology offers high performance in miniature format using only standard power connections (220V/110V).

Low weight, user-friendly operation, and an integrated interface for connecting to digital X-ray detector systems make the Amadeo P ideal for the multifaceted demands of medical practices, hospitals and ambulatory care.

Amadeo P X-ray units are available with and without batteries. Wireless models without batteries offer unhindered mobility.

For more detailed information please see: www.or-technology.com
Compact suitcase and backpack solutions for mobile use in medical emergencies

The extremely lightweight Leonardo DR suitcase and backpack solutions represent a digital and space-saving complement to portable X-ray units and also an opportunity to transition from CR to direct digital radiography. All necessary components, including cables, are neatly tucked away in the suitcase and backpack. Just open the case, turn on the machine – and off you go!

This compact solution allows excellent images in DICOM format to be created, processed, analysed and archived in no time flat. The straightforward user interface enables all personnel to produce optimal X-ray images. The system functions under almost all environmental conditions and requires very little maintenance. Several different imaging surface areas are available for the Leonardo system.

The professional dicomPACS® DX-R acquisition software sports an intuitive and modern graphical user interface. All examinations can be conveniently conducted from a single monitor and all X-ray parameter settings are automatically transferred to the generator (optional). dicomPACS® DX-R generates images of outstanding quality and can be adapted to individual customer needs. High-performance image processing allows organ-specific optimisation. The integrated X-ray positioning guide assists with patient positioning and software settings for each examination. Furthermore, the dicomPACS® DX-R software can readily be interfaced with existing patient management systems.
Looking to switch from digital imaging using computed radiography to direct digital radiography?

**Portable, high tech X-ray system in a suitcase**

**Leonardo DR mini II** - sturdy, digital suitcase solution for medical emergency services

The **Leonardo DR mini II** is a portable, digital X-ray system for stationary as well as ambulatory care. Weighing only 8.9 kg, the system is one of the lightest suitcase X-ray solutions worldwide. The **Leonardo DR mini II** is quick to set up, easy to use and ideal for use outdoors and in confined spaces. The practical suitcase has an abrasion and stain-resistant silicone coating, and can be easily carried using a shoulder strap.

A built-in 17" premium notebook with high resolution touchscreen monitor as well as straightforward user interface combined with OR Technology’s integrated acquisition and diagnosis software makes it easy to generate excellent X-ray images. ➔ See description of software on pages 31-35
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

The Leonardo DR nano consists of only two components: a wireless X-ray detector and a laptop with integrated acquisition and diagnostic software.

Weighing just under 8 kg (including carrying case, laptop, accessories and flat panel detector), the system is one of the lightest portable X-ray solutions worldwide. It is ideal for ambulatory digital radiography, any time and anywhere. Getting tangled up in annoying cables is a thing of the past! Working in confined spaces is no longer a problem.

After use, the system is stored in a rugged, custom-made and efficiently designed backpack. The system can easily be carried to any location, even across uneven terrain in the field.

For more detailed information please see: www.or-technology.com
Flat panel retrofit kit (DR) for transitioning stationary and mobile X-ray systems to digital

Medici DR systems make it easy to switch from conventional stationary and mobile X-ray units to digital radiography. Automatic exposure detection (AED) eliminates the need to access the X-ray unit or make manual adjustments to the system and cable connections during installation. The system is just as easy to install as computed radiography (CR) units. The DR retrofit kit significantly optimises your workflow – X-ray images appear on the screen within seconds of exposure. Cassettes are no longer required. Customise your X-ray system to meet your needs by choosing the perfect flat panel detector from a wide array of makes and sizes.

The dicomPACS® DX-R image acquisition software has a touchscreen interface, is easy to operate, adapts to your workflow, and reliably produces outstanding X-ray images. The software is used to control all functions of the X-ray system. The automatic, user-specific image processing makes post-processing virtually unnecessary.

All Medici systems can be integrated into your practice management software and programmed to transfer X-ray images to an image management system (PACS). Should you not have access to an image management system yet require images to be distributed (e.g., within your medical practice / hospital or to colleagues / patients via internet), our dicomPACS® image processing system offers file sharing.
Interested in transitioning your conventional, stationary X-ray system to digital with minimal effort?

Upgrading stationary X-ray systems

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

Digital radiography does not automatically require investing in an entirely new system. Upgrade your X-ray system to digital with a Medici retrofit – easy to install, straight-forward to operate, and no need for manual adjustments or modifications.

The system pays for itself within a short period of time and produces digital images of diagnostic quality. We offer a wide selection of flat panel detectors for customising your system.

The integrated control console operates the entire X-ray system: from generator control to high quality images for diagnostic evaluation.

See detailed description of software on pages 31-35
Interested in upgrading your current mobile X-ray unit to digital?

**DR upgrade for mobile X-ray equipment**

... with a **Medici** system: digital X-ray images of diagnostic quality

Digital systems are the norm in hospitals and medical practices. If you are now looking to transition your mobile X-ray equipment to digital, our **Medici** DR upgrade kit is your best bet. **Medici** systems are available for nearly every mobile X-ray unit manufactured. Customise your X-ray system to meet your needs by choosing the perfect flat panel detector from a wide array of makes and sizes. The user-friendly acquisition and diagnostic software produces images of outstanding quality and can readily be integrated with your existing workflow using laptops, touchbooks, tablets or Ultrabooks.

See detailed description of software on pages 31-35. The **Medici** DR system can also be integrated with an existing patient management software and can transfer X-ray images to Picture Archiving and Communication Systems (PACS).

Further information about **Medici updates** (mobile) is available here.
Digital radiography with cassettes
for standard X-ray examinations with
maximal processing capacity

With the purchase of a cassette-based radiography system (CR), you can keep your existing X-ray system and simultaneously benefit from the excellent quality of digital X-ray images.

Computed radiography uses imaging plates in cassettes of the same size and shape as conventional film cassettes. After the normal X-ray exposure, the cassette is placed into an X-ray scanner and read out.

The resulting digital image is stored and can be viewed seconds later on the computer monitor. CR imaging plate systems permit low-cost entry into digital radiography and pay off within a short period of time. The existing X-ray system does not have to be modified.

When used in combination with the professional image acquisition software dicomPACS® DXR, the compact and lightweight Divario CR system provides a complete suite of image processing tools.

See detailed description of software beginning on page 31

The tailor-made software substantially improves and accelerates the daily workflow. During the design phase, priority was given to exceptional image quality and maximum flexibility. As a result, the integrated intelligent image processing software can easily be individualised to meet the specific wishes and requirements of the physician for each X-ray examination. This function guarantees the best image quality for any given purpose.
Quick and compact CR desktop unit

Divario CR-T2 with high processing capacity for standard X-ray examinations

With up to 73 cassettes per hour, the Divario CR-T2 has an impressive processing capacity. The Divario system is easy to use and increases the efficiency of examination procedures. The desktop unit is unobtrusive, has a compact design, and is small enough to fit on any desk or shelf.

OR Technology’s integrated image acquisition software includes a complete suite of image processing tools and guarantees excellent image presentation. See detailed description of software on pages 31-35.

The solution can easily be adapted to existing clinical applications, and is ideal to handle overflow and to act as a backup for DR and CR systems.

Interested in going digital without changing your existing radiography workflow?
Looking for an easy way to digitise your X-ray images while continuing to work with cassettes?

CR desktop unit with extraordinary 50 μm resolution

Divario CR-Tm with high cassette throughput for high-resolution X-ray images

The Divario CR-Tm is a CR desktop system ideal for small medical practices and for use as backup in busy hospital radiology departments.

The CR system has a maximal processing capacity of 73 cassettes per hour in high-speed mode (5 pixel/mm). The unit can reliably produce high-quality, high-resolution images with 50 μm pixels. High-resolution images (up to 6 lp/mm) significantly improve the diagnosis of changes and injuries.

The compact and lightweight CR system comes with our professional acquisition and diagnostic software, and thus with a complete suite of image processing tools. → See detailed description of software on pages 31-35
X-ray accessories
It is essential that mobile and stationary X-ray systems function in a straightforward, quick and safe manner. In addition, variation in patient size represents a special challenge for table design. Machines, tables and stands should work together seamlessly and be adjustable to the needs of individual patients – ranging from small children to adults weighing over 200 kg.

By electing to transition from analogue X-ray technology to computer-aided radiography, you benefit from technological advances, improve image communication, and choose an environmentally friendly X-ray system with the lowest possible radiation exposure.

A large number of systems and versions are available for diverse radiographic applications.

OR Technology’s X-ray accessories are compatible with all DR and CR systems on offer, as well as with our software solutions.
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 without motor for various uses, load bearing capacity 150–210 kg (depending on the model)

Further information about top-quality X-ray tables is available here.
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
- Diverse stands for cassette holders, medical carts, knee supports, etc.

For more detailed information please see: www.or-technology.com

Further information about mobile stands and cassette holders is available here:
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

**VersariX** is THE portable flat panel detector mounting system for X-ray examinations conducted in unusual places such as private residences, old-age homes, medical tents or ships etc. In confined spaces like these, installation of a mobile stand to support the X-ray detector is often problematic. In addition, transporting a fold-up mobile stand is often inconvenient due to its weight and space requirements.

This is where **VersariX** comes in. Weighing only some 400 grams, it can be attached anywhere, like on room or wardrobe doors, walls, trees etc. The sturdy hook used to suspend the X-ray flat panel detector allows virtually stepless height adjustment. X-ray images ranging from the cranium to the thorax to the foot can be taken professionally and effortlessly.
Production of X-ray films from digital data without the use of chemicals

Thanks to the latest printing technology, high-quality X-ray films can now be produced without the use of developer and fixation chemicals.

Laser imager technology brings significant benefits to healthcare facilities in terms of performance, cost and quality. The affordable printers offer consistently low operating costs throughout their entire service life. Due to the small space requirement, the compact X-ray film printers can be simply placed on a desk or counter or can also be used on the move. Operation is extremely simple. The film can be inserted in normal daylight.

The X-ray film printers can be used for various modalities (e.g. X-ray, MRI, CT, etc.) in practice and clinic.

Further information about X-ray film printer is available here:
The professional acquisition and diagnostic software for X-ray images from DR and CR systems

dicomPACS®DX-R is an acquisition software for X-ray systems with a straightforward and user-friendly graphic interface controlled via touchscreen and/or mouse. The software package is included in all Amadeo, Leonardo, Medici and Divario systems (except Amadeo P systems). The software also controls the operation of X-ray generators and X-ray units, and thus establishes a structured and efficient workflow.

dicomPACS®DX-R’s professional image processing produces images of outstanding quality and can be adapted to special customer needs. The high-performance software includes organ-specific optimisation, which further enhances image quality.

Everyday medical care is made easier by multiple integrated functions – including a multimedia X-ray positioning guide – and an intuitive design. The software provides additional special functions, such as Chiro Tools (diagnostic tools for optimal treatment) and the NUCCA tool set.

Furthermore, the dicomPACS®DX-R software can readily be integrated with existing patient management systems. X-ray images can be evaluated using the dicomPACS® viewer module within the acquisition software. Thus, the system can function as a fully-fledged diagnostic work station with the option to upgrade to a PACS (Picture Archiving and Communication System).
Benefits of our internationally proven acquisition software:

- Modern graphical user interface (GUI), readily adaptable to new languages
- **Touchscreen operation** – ensures quick, efficient and structured workflow
- Patient data is captured via **DICOM Worklist, BDT/GDT, HL7** or other protocols – data can also be captured manually
- **DICOM procedure codes** are used to transfer all data relevant to an examination directly from associated information management systems (e.g., HIS/RIS)
- Body parts already stored in the system can be **freely configured** using over 400 projections and a multitude of parameters
- Reliable and quick **registration of emergency patients**
- The order of **scheduled examinations can be modified** to avoid unnecessary patient repositioning
- Images can be appended to an examination record later
- Special functions for human medicine, including **Chiro Tools** (diagnostic tools for optimal treatment), the **NUCCA tool set** and much more …
- **Macros for** frequently reoccurring examinations (e.g., thorax screening)
- **Fully integrated multimedia radiographic positioning guide** for all examinations including helpful hints, photographs, videos and sample X-ray images
- **Wireless remote control** of the digital X-ray system; with worklist, preview thumbnails and much more...
Benefits of flexible image acquisition:

- Integration of various flat panel and CR systems (including dental systems) produced by different manufacturers, includes an electronic X-ray log

- User-configured generator interface can control X-ray generators and X-ray systems from many manufacturers, generator settings are adjusted via software

- Parallel operation of flat panel and CR systems is a standard feature of the system. Users can choose whether the next exposure is taken by the flat panel or the integrated CR system. This flexibility also functions as a excellent backup in case of a defective flat panel detector.

- Integrated dose area product (DAP) meter; DAP measurements are automatically saved to the image

- All X-ray parameters can be automatically adjusted for each projection using AEC (automatic exposure control) and APR (anatomical programmed radiography); manual adjustments are also possible

Automatic image processing for optimal quality

- Perfect images at all times using the automatic image optimisation of the integrated software – further adjustments are rarely necessary

- Professional image processing that can be adapted to meet the needs of each examination and customer

- Our image processing has special features that provide virtually constant image quality under a wide range of X-ray parameter settings (allows for dosage reduction)

- Bones and soft tissue in the same image – details of fine bone and tissue microstructures significantly improve diagnosis

Further information about the acquisition software is available here:
Das **dicomPACS® DX-R** Cognition Optimised Processing (COP) comprises:

**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

**ABB5 – 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.
Special measurement tools and filters:

Digital X-ray images have the advantage that exact measurements can be made at the computer monitor and that image processing techniques can be used to improve image quality. dicomPACS® DX-R offers an array of special software tools:

Pre-operative planning with the prosthesis documentation module
This module facilitates planning and documenting operations. Active images are displayed in the size of the original (identical to analogue film images). The prosthesis template can be displayed on the image as an annotation or existing prosthesis template films can be held in front of the monitor.

Upper cervical (NUCCA) and standard chiropractic tools
The NUCCA tool set and Chiro Tools were developed in cooperation with leading NUCCA experts from the USA and Canada. The NUCCA tool set enables quick and accurate diagnosis without significant changes in your workflow. Chiro Tools improve diagnosis and assist in treatment planning, e.g., by generating centre lines and points, fitting arcs and providing angle measurements.

Gridless imaging (GLI) – X-ray exposures without grid
The elimination of image-degrading scatter radiation functions as a virtual grid and can be used instead of a physical grid for all body parts, including thorax, abdomen, skull, spine and pelvis as well as upper and lower extremities.

Image stitching module
This feature automatically assembles separate X-ray images with high geometric accuracy to form an overall image with no visible suture lines (e.g., full-leg and full-spine images).

Useful tools and additional functions
Practical aids such as a configurable measuring magnifier, window levelling, zoom functions and various filters facilitate diagnosis. Powerful search tools enable effective comparisons among X-rays stemming from different examinations and patients.

Numerous further functions, including the calculation of Cobb’s angle, pelvic obliquity measurements, and integrated diagnosis reports, round out this high-performance diagnostic software package.
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 provides solutions for the administration, diagnosis, transfer and archiving of images. The program was designed, developed and tested in cooperation with medical practitioners in order to provide a sophisticated, user-friendly tool for everyday diagnostics.

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

... An image management system ideal for editing, analysing, transferring and archiving images

In addition to basic functions such as image and patient management, image optimisation, and the ability to measure, highlight, edit, import, export and print, the dicomPACS® software includes a DICOM receive/archive module for DICOM images and a patient CD module that creates CDs from which patients can view their X-rays using a complementary viewer software. A module for connecting to film and document scanners is also included.

The basic version of dicomPACS® also contains several documentation modules, software tools for professional analysis of cross sectional images (e.g., CT and MRI), special filters, measurements tools, as well as diagnosis tools for optimal treatment.
**Benefits of the basic package at a glance**

- *dicomPACS*® comes with a large number of special functions and modules (see detailed description on page 35) as well as professional software tools.
- Fully functional versions of the diagnostic software at all work stations in your practice (no „light“ versions).
- User-friendly interface, logical and intuitive structure requiring little training.
- User interface can be individualised according to your specialisation and needs.
- Flexible assignment of shortcut keys for many functions to expedite everyday tasks.
- Parallel processing (e.g., image analysis can continue while burning a CD).
- All images and data are permanently available in the network – no need to store old images on CD.
- „Perfect memory“ – images are reopened with all previous markings and settings (including zoom and orientation).
- Multiple windows can be opened simultaneously, allowing the concurrent analysis of several patient records without loss of performance - depending on computer hardware.
- External documents including doctor’s letters, faxes and X-ray images can be imported – no additional modules are required.
- Installation possible on systems using Windows, UNIX, LINUX and Apple Macintosh operating systems.
- Optimal data security, speed and compatibility made possible by standardised SQL database technology.
- All images and documents are compliant with international DICOM standards.

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)
**Highlighted features**

**dicomPACS**\textsuperscript{*} is a so-called “Picture Archiving and Communication System”, acronym: PACS, and it performs many different, at times highly complex tasks. It connects, controls, and administers 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 the user to plan operations with digital prosthesis templates by one or more manufacturers

- **Report Module** – for easy preparation of different reports (e.g. operation reports, ultrasound reports etc.) incl. Word macros with images and a digital dictation system

- **Statistics Module** – enables freely configurable analyses of the complete database

- **Video Modules** – enable standard and non-standard video signals to be recorded as single images and video sequences

- **dicomPACS\textsuperscript{*} MobileView** – enables image distribution within the hospital or to referring doctors via the internet and guarantees very fast image accessibility in original DICOM quality

- **Processing of CT and MRI series –** **dicomPACS**\textsuperscript{*} includes professional tools such as MPR and MIP to evaluate cross-section series

- **Upper Cervical (NUCCA) Chiropractic Tool Set** – Tools for accurate diagnosis and planning of further chiropractic treatment

- **Hanging protocols**
- **Special function for mammography analysis**
- **Integration of speech processing systems**
- **Telemedicine**
- **Special solution for multiple 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 in and outside of 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.

For more detailed information please see: www.or-technology.com
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.
Cloud-based archiving of X-ray images

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.
Communication platform and telemedicine solution

Easy viewing and transferring of images for veterinarians using the DICOM cloud with **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.

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)