

Digital X-ray imaging Overview





OR Technology Headquarters

The OR Technology competence group: Your competent partner for digital X-ray imaging


- Producing digital X-ray technology and developing image management systems for use in doctors' and radiology practices and hospitals
- Software solutions developed in-house – used and trusted worldwide for more than 25 years
- Worldwide sales and service network
- Represented in over 90 countries
- Large product portfolio for human and veterinary medicine
- High quality standards
Quality management system in accordance with ISO 13485 and European Medical Device Regulation as well as FDA and Health Canada approval



Digital X-ray imaging

6 solutions for your X-ray requirements

CR solutions

 **Divario CR Systems**



- CR systems for digital radiography with cassettes



DR retrofits


 **Medici DR Systems**



- Digital upgrade sets for existing X-ray systems
- Available for stationary and mobile X-ray machines



Stationary, mobile and portable X-ray systems

 Amadeo X-ray Systems



- Complete digital X-ray systems
- Mobile X-ray solutions
- Portable X-ray solutions



DR suitcase solutions

 Leonardo DR Systems



- DR suitcase solutions for portable radiography



Image management (PACS)

 dicomPACS®



- Acquisition, processing, evaluation, transfer and archiving image material
- Storing images and documents in a digital patient file
- Distribution of patients' images via webserver



Cloud based archive and teleradiology solution

 ORCA



- Safe, long term archiving of patient data with intelligent usage of internal databases
- Communication platform (exchange of images and diagnostic reports with colleagues and specialists)
- Transfer of image data







Divario CR systems: Digital X-ray with cassette handling as usual

The **Divario** CR system does not involve any major changes to the conventional X-ray process. Instead of the normal film cassette you use an imaging plate cassette that is identical in shape and size. After the normal X-ray process, this cassette is inserted into the imaging plate unit and read out within a short period of time. The digital image data produced in the process is automatically stored and can then be viewed on the diagnostic evaluation monitor in optimum quality.

At the heart of each **Divario** CR system is the acquisition and diagnostic software with an integrated X-ray positioning guide. The multimedia X-ray positioning guide provides the correct adjustment for each examination and contains many hints, photos, videos and correct example images.



You can find detailed information at www.or-technology.com



Medici DR Systems



www.or-technology.com/medici-video





Medici DR systems: Flat panel upgrade set for your existing **stationary** X-ray system

Upgrade your existing stationary X-ray system to digital. Our **Medici** DR systems can be supplied to be compatible with almost any existing X-ray system. Tethered or wireless X-ray detectors of various makes and sizes allow custom configuration of the system.

Medici systems offer many additional advantages, mainly better image quality and hardly any servicing costs. The professional acquisition software can be operated intuitively via a touchscreen, adjusts to your work routine and provides X-ray images of the highest reproducible quality.

All **Medici** DR systems may of course be integrated into your practice management software and transfer the X-ray images into an image management system (PACS). If you have not yet installed such an image management system, but still require images to be distributed within your practice / clinic or to colleagues or patients via the internet – no problem: our **dicomPACS**® image processing system will do just that.

Automatic
synchronisation of
detector and generator
by means of

AED*

No need to
modify the X-ray system
and to adjust the
system or the
cable connections





Medici DR Systems



www.or-technology.com/medici-video





Medici DR systems: Flat panel upgrade set for your existing **mobile** X-ray system

Medici DR systems can be supplied for almost any existing X-ray system. Various makes and sizes of wireless flat panels allow your system to be configured in accordance with your needs.

Special advantages of all Medici systems:

- Simple change-over from conventional to digital as the existing X-ray system does not have to be converted
- Outstanding image quality
- Wireless flat panel support available

Benefits of flexible image acquisition:

- Integration of different flat panel systems by various manufacturers
- Option of connecting up to 3 flat panels
- Control of X-ray generators / X-ray systems by various manufacturers
- Parallel operation of flat panel and CR available as a standard option

Digital
upgrading
made
easy



You can find detailed information at www.or-technology.com



Amadeo stationary X-ray Systems



www.or-technology.com/amadeo-z-video



Amadeo Z system

Fully motorised all-round
unit for low ceiling heights



Amadeo DR complete stationary X-ray systems for digital X-ray imaging without cassettes

Are you interested in new complete stationary X-ray systems that are compact and easy to install? Welcome to our world of **Amadeo** X-ray units. Our product range includes a variety of X-ray systems, from the conventional to the fully motorised.

All **Amadeo** X-ray systems have one thing in common: They are available both as a conventional version for use with CR cassettes and as a fully integrated digital version with built-in or wireless detectors.

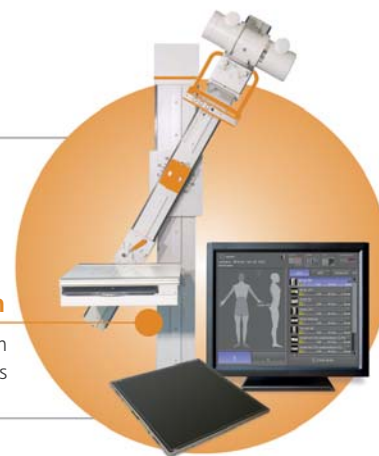
The optimised work flow with such a system reduces the number of process steps, saving you time as well as personnel and financial resources.

Amadeo R system



Amadeo S system

Compact U-arm system for confined spaces





Amadeo mobile X-ray Systems



www.or-technology.com/amadeo-m-mini-video





Amadeo mobile X-ray systems: Complete solutions for digital X-ray imaging for mobile and stationary use

Due to their very low overall weight and their compact design, the systems are very versatile in their use and easy to transport. Modern X-ray technology can be applied wherever patients cannot be taken to a hospital for quick radiological diagnosis. Therefore the mobile **Amadeo** systems are also used successfully in various military emergency situations.

The systems benefit from an optimal weight-size-performance ratio. The systems include, depending on the version, all the necessary components such as X-ray detector, X-ray generator and image processing workstation including a worldwide used software package with a practical X-ray positioning guide for correct adjustment. The **Amadeo M** systems were specially developed for doctors and medical services in remote and inaccessible areas, medically oriented aid organisations as well as ships and oil rigs. Due to their excellent mobility, safe handling can be guaranteed even in confined hospital rooms and lifts. The systems can even be transported up the stairs.

Amadeo M system

Mobile, light and splash proof digital X-ray solution, wireless or tethered



Amadeo M mini system

Mobile and versatile, can be turned and moved in small spaces without tilting, all components are integrated into the device and easy to use



You can find detailed information at www.or-technology.com



Leonardo DR Systems



only
approx.
9.5 kg



Leonardo DR mini systems: Suitcase systems for portable X-ray imaging

Small, light and functional – that's the sleek and well designed **Leonardo DR mini**. This wireless and compact suitcase solution is at 9.5 kg one of the most lightweight X-ray suitcases worldwide. It supports doctors in the field of digital out-patient radiography.

The **Leonardo DR mini** suitcase can be used by mobile medical services all over the world, including small medical units on ships, yachts or oil rigs. In cases of emergency, X-ray images can be transmitted rapidly from the medical station to a specialist for an accurate diagnosis when there is no doctor on site. The system can be operated with various X-ray detectors of different sizes.

The **Leonardo** systems are available in various sizes (exposure area).

Areas of use: outpatient department in hospitals, intensive care units, ambulances, technical relief agencies, military medical services, aid organisations, medical facilities on ships and oil rigs



You can find detailed information at www.or-technology.com



Leonardo DR Systems

Leonardo DR Systems

X-ray
examinations:
anywhere,
any time





Leonardo DR nano systems:

The wonderfully light, portable system - only with X-ray detector and tablet PC

Just sling the lightweight **Leonardo** backpack over your shoulder and you are perfectly equipped for your next X-ray examination. The **Leonardo DR nano** consists of two components only, a wireless X-ray detector and a tablet PC.

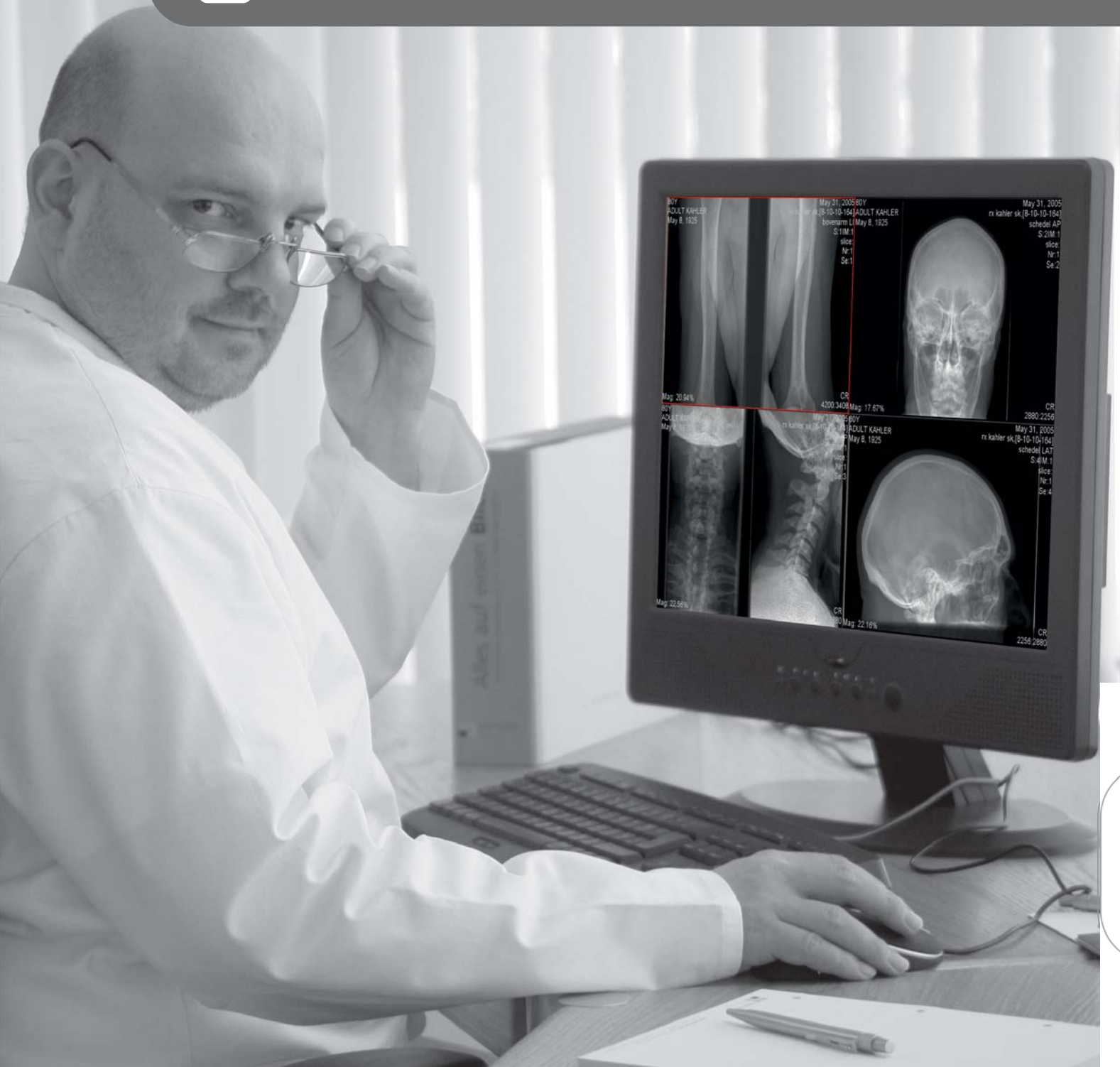
Weighing only approx. 8 kg (complete package, bag incl. tablet PC/notebook, accessories and 12" x 10" flat panel detector), the system is one of the lightest portable X-ray solutions worldwide. It supports users in outpatient digital radiography.

Due to its low weight and volume, the compact **Leonardo DR nano** system can be used almost anywhere - in home care, disaster control, for medical emergencies on ships, yachts and oil rigs as well as for military purposes.





dicomPACS®





dicomPACS[®]: Digital image management with optimal diagnosis

The ***dicomPACS***[®] software includes the acquisition, processing, diagnosis and transfer and archiving of image material. All types of images as well as all kinds of documents can be acquired, archived, and filed in the digital patient file. Since the software has been designed and developed in close cooperation with practicing doctors, you are looking at a well tested and easy to operate tool for daily diagnosis.

Connection to your practice management system is a matter of course for us.

Modules & solution:

Cloud archiving, ***dicomPACS***[®] ***MobileView***, prosthesis documentation module, patient CD, statistics module, video module, administration and diagnosis of image slices and many more...

Individual adjustment of the user interface to your field of specialisation



You can find detailed information at www.or-technology.com



ORCA





ORCA: The DICOM cloud for medical images and documents

ORCA (OR Technology Cloud Archiving) is a cloud based platform specially designed for storing, viewing and sharing medical images and documents. **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). **ORCA Archive** can be used as a backup solution. Wherever the internet is accessible, images archived in the cloud can be viewed at maximal resolution and quality (DICOM) via the integrated browser based **ORCA View** program and our acquisition software **dicomPACS**®.

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. It can also be used to give patients access to medical reports and images. Recipients are sent an access link via email. There is no need to install software locally.

Minimal
expenditure
Scalability
Long-term security
Accessibility
Environmentally friendly
Location
independent



You can find detailed information at www.or-technology.com

OR Technology has **produced digital X-ray technology and developed image management systems** for more than 25 years. Our in-house solutions are used successfully in private practices, hospitals and radiology.

The portfolio ranges from **DR retrofits for existing X-ray systems** (X-ray imaging without cassettes), **CR systems** (X-ray imaging with cassettes) and **complete X-ray systems** to the **mobile DR detector suitcase solution** for outdoor use (e.g. on ships and oil rigs, in remote locations or disaster management).

The members of our competence group are your professional contact persons for every aspect of X-ray imaging and image processing.

The network of competence and service centres guarantees **on-site service by specialists** for all products and services offered by OR Technology.

Through comprehensive training courses and further education programmes OR Technology guarantees its **high quality standards** at all competence centers.



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