Acquisition and diagnostic software

for X-ray images from DR flat panels or CR systems

Automated, AI-based thoracic screening to detect different types of lung diseases

Now with AI

dicomPACS® DX-R
X-ray Acquisition Software

OR Technology
**dicomPACS®DX-R**

*X-ray Acquisition Software*

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**acquisition software**

for static and dynamic X-ray images

for small medical practices & large hospital departments

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*dicomPACS®DX-R* is a **professional acquisition software for X-ray images from flat panel systems (DR) and CR units (computed radiography with imaging plates) by any origin**. In addition, the software **controls X-ray generators and X-ray units** of various manufacturers, providing a smooth and systematic workflow. A simple and **user friendly GUI (graphical user interface) operated by touchscreen or mouse** completes the system.

The professional *dicomPACS®DX-R* image processing can be adapted to individual users’ needs and offers outstanding image quality. It has been specially developed to enable organ specific optimisation, guaranteeing the highest quality X-ray images.

Many helpful integrated functions such as the radiographic positioning guide and intuitive operation greatly simplify daily routine tasks.

In addition, *dicomPACS®DX-R* allows **integration with existing patient management systems**. The integrated full *dicomPACS®* viewer even enables the user to diagnose X-ray images within the acquisition software. Therefore, the system can also be applied as fully-fledged diagnostic workstation with the option to upgrade to a PACS (Picture Archiving and Communication System).

*dicomPACS®DX-R* forms the core of a digital X-ray unit, whether it is a retrofit system to upgrade existing X-ray units, a complete new unit including generator control, or a portable suitcase solution for mobile X-ray generators.

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Further information about acquisition software is available here:
Easy switching between planned examinations if the patient has to be repositioned frequently.

The software can be operated via touch screen and guarantees fast, efficient work and an optimal workflow.

Recording of recurring examination procedures as a macro – simplifies work even outside the routine hospital routine.
Optimal workflow
The easy-to-use acquisition and diagnostic software offers many advantages:

- Modern graphical user interface (GUI) adaptable to almost any language
- Touchscreen operation – to ensure quick and efficient work and a smooth workflow
- Capture of patient data via DICOM Worklist, BDT/GDT, HL7 or other protocols – data may also be captured manually
- Use of DICOM Procedure Codes for transferring of all relevant examination data directly from the connected patient management system (HIS/RIS)
- Freely configurable body parts with more than 400 projections and numerous possible adjustments in human and veterinary medicine already included
- Safe and fast registration of emergency patients
- Allows the user to switch between examinations of a patient, for instance to avoid having to re-position the patient frequently
- Allows the user to subsequently add images to an examination, even after that examination has already been completed
- Entry of recurring examination procedures as macros, e.g. thorax screenings
- Fully integrated radiographic positioning guide for each examination incl. comprehensive notes, photos, videos and correct X-ray images
- Option to control a digital X-ray system via wireless remote with the app "dicomPACS®DX-R remote control" via smartphone or tablet. Incl. display of the worklist, preview of the image taken for checking – directly in the app an X-ray can again be planned or a new one can be planned

For more detailed information please see: www.or-technology.com
Planning the X-ray examination using the body parts – switch to planning for children and infants with just one click.

Fully integrated radiographic positioning guide for correct adjustment procedure.

Proposal of the recommended generator values for the respective study (kVp, mAs, focus, etc.) and worklist (right).
Procedure of an X-ray examination with dicomPACS® DX-R

4 Preview image of the X-ray image (incl. various display options) [left] and work list [right]

5 Findings in the professional PACS viewer incl. further processing, storage of images and much more

6 Extensive search functions and display of the result list
Using your smartphone as a remote control for planning and viewing images during the X-ray process.

All info about dicomPACS*DX-R remote control.
Optimal workflow
Modern graphical user interface with clearly arranged functionalities

Job creation

Radio graphic positioning guide

The correct settings for adults and children are available at a click.

Chart for planning an individual X-ray job.

Switch to planning X-ray jobs for children and babies.

Step-by-step video with sound for patient positioning.

Shows an example of a correct X-ray image.

Presentation of helpful hints for positioning the patient, central beam, tips and tricks, frequent errors etc.

Opens examples of inaccurate X-ray images with comments.

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

The acquisition software dicomPACS® DX-R guarantees an optimal workflow in small practices as well as in large hospitals.

**Dynamic X-ray detectors**
(different manufacturers)

- operation software for generator and panel
- image processing
- image management

**X-ray devices**
(motorised)

- control of the motorised system, collimator etc.
- positioning protocol
- KVP, mAs, body part etc.
- exposure protocol
- control of the motorised system, collimator etc.

**Panel control**

- raw images
- DICOM Worklist (DICOM store)
- confirmation when instructions have been carried out
- unless provided by HIS/RIS
- output of processed images incl. all patient and exposure data

**HIS/RIS etc.**
(Patient management system)

**Flat panel and CR systems**
(different manufacturers, also dental panel)

**DX-R**
X-ray Acquisition Software

**PACS**
(e.g. dicomPACS®)
Flexible image acquisition
Optimum adaptation to all X-ray systems

- Integration of various flat panel and CR systems by different manufacturers for static and dynamic X-ray [dynamic x-ray of image sequences see page 26/27]

- Option to connect up to 3 flat panels (bucky, wall stand and mobile) to one system

- The configurable generator interface enables the user to control X-ray generators or X-ray systems by different manufacturers, delivering the generator settings directly from the software.

- Option for the parallel operation of a flat panel and a CR system included in the standard package. The user has the choice to take the next image with either the flat panel or the integrated CR system. This flexibility also provides an excellent emergency concept in case of a defective flat panel.

- AEC (Automatic Exposure Control) and ARP (Anatomical Programmed Radiography) allow the user to automatically adjust all X-ray options for each projection with an option to subsequently edit the image manually.

- Integration of dose area product meters (DAP) – the readings are saved directly to the relevant image

- Electronic X-ray log

For more detailed information please see: www.or-technology.com
**Image processing**
*Left:* Conventional image processing
*Right:* dicomPACS®DX-R Image Processing

**GLI image comparison**
*Left:* Exposure without grid
*Right:* Same exposure with GLI scatter reduction
Image processing
Automatic image optimisation for perfect images

- Perfect images at all times – generally no adjustment required
- Integrated software for automatic image optimisation with COP [see page 12/13]
- Professional, adaptable image processing for each individual examination to obtain best possible image settings for each customer’s needs
- Due to specially developed processes, the image processing allows the user to vary the X-ray settings on a large scale while the image quality remains virtually the same (possibility of dosage reduction)
- Bones and soft tissue in one image – this enables the user to significantly improve the diagnosis
- Details of bones and microstructures are very easy to recognise
- Noise suppression
- Black border (automatic shutters)
- Automatic removal of grid lines when using fixed grids
- GLI (gridless imaging) – reduction of scattered radiation:

**GLI: X-ray imaging without grid**

Grids are required for X-raying large body parts in order to focus the radiation and reduce scatter, thus improving the contrast and brilliance of X-ray images. The virtual scatter reduction GLI works like a grid and can be used instead of a physical grid for all body regions, including thorax, abdomen, skull, spine, pelvis and upper and lower extremities.
Cognition Optimised Processing (COP)
COP contains all calculation steps for an optimal image presentation, which the X-ray image passes through directly after its creation. Image contents are automatically analyzed and the calculation steps intelligently adapted. Thus, no post-processing of the images is necessary.
Optimisation of image data
with the *dicomPACS® DX-R* Cognition Optimised Processing

The automatic calculation steps of Cognition Optimised Processing (COP) include:

**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 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

**ABBSS – 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.

For more detailed information please see: [www.or-technology.com](http://www.or-technology.com)
Professional diagnosis
with the completely integrated dicomPACS®
Viewer for image diagnosis

Image export:
Send images by e-mail directly from the software

Image export:
Print of X-ray images on Windows printers (paper) and laser imagers (film)
Image diagnosis

Professional diagnosis and image processing with the integrated viewer

- Completely integrated dicomPACS® viewer for image diagnosis, further processing and storage of images in an SQL database incl. image manipulations, export options, layout adjustments, freely configurable user interface and much more

- Stepless zoom, PAN, magnifier, ROI, crop, rotate, mirror etc.

- Insert image annotations, e.g. free texts, arrows, ellipses etc.

- Measure distances, angles, areas and density

- Extended acquisition functionality for use in mammography*

- Adjust window/level options and gamma correction, sharpening filters, noise suppression

- Many additional functions such as chiro tools, calculation of Cobb’s angle, pelvic obliquity measurements, integrated capturing of diagnostic reports etc. as well as the possibility of diagnosis through the connection with AI-supported thorax screening (through a qualified third-party provider)

- Easily upgradable to the integrated image management system (PACS)

Image export

- Export images to JPEG, TIFF, BMP and DICOM formats

- Print images both on Windows printers and laser imagers via DICOM Basic Print

- Create DICOM patient CDs with free WEB viewer

- Inbuilt email tool to image distribution - no external email application necessary

*Pending CE and FDA conformity approval for the module.

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

Integrated dicomPACS® Viewer for **image diagnosis**, further processing and storage of images in an SQL database incl. image manipulations, export options etc.

The integrated **prosthesis module** allows preoperative planning (optional).

The system enables quick and **easy adaptation of the user interface** to individual customer requirements.
... with extensive functions

Useful tools, such as configurable measuring magnifier, make reporting significantly easier.

The stitching module creates a single image from separate digital X-ray images (optional).

Comprehensive search tools allow the comparison of X-ray examinations, even of different patients.
**DR systems**
DR X-ray systems can be controlled by the professional acquisition and diagnostic software *dicomPACS*® *DX-R*.

**CR systems**
In combination with the professional image acquisition software *dicomPACS*® *DX-R*, a CR system combines all necessary image processing functions.
Modalities

Which flat panels and CR systems does dicomPACS®DX-R support?

dicomPACS®DX-R is a generally open system. Its conception and development was independent of hardware manufacturers. Components from the following manufacturers have already been integrated (We are continuously working on the integration of new models and manufacturers):

- X-ray detectors (DR)
  - ATLAIM
  - CARERay
  - DR TECH
  - HAMAMATSU
  - iRay Technology
  - Kodak Dental Systems
  - KONICA MINOLTA
  - LG
  - 上海品维新科技有限公司
  - RAYENCE
  - THALES
  - Canon
  - CETD
  - VIEWorks

- CR systems
  - Divario CR Systems
  - FireCR
  - Carestream HEALTH
  - FUJI FILM

For more detailed information please see: www.or-technology.com
Individual adaptation of the graphical user interface according to the specifications of the OEM partner

Complete control of X-ray generators and X-ray systems from various manufacturers

Orderly and optimal workflow
&
Simple and user-friendly user interface
OEM: Software wanted?

Who is interested in \textit{dicomPACS}® \textit{DX-R} from OR Technology?

OEM partnerships provide numerous benefits to manufacturers who are interested in combing their X-ray systems with our \textit{dicomPACS}® \textit{DX-R} acquisition software under a chosen brand name. The software helps all manufacturers \textbf{reduce their development costs} and significantly \textbf{shorten the time to market for digital solutions}.

\textit{dicomPACS}® \textit{DX-R} is \textit{THE} software for the complete integration of X-ray generators, stands, detectors, CR systems, image processing, file management, patient administration and PACS (including cloud computing).

The system is openly programmed and can be \textbf{customised to the specifications of the OEM partner}. The Look & Feel can be adapted to the existing CI/CD.

\textit{dicomPACS}® \textit{DX-R} is a professional acquisition software for X-ray images generated by various X-ray detector systems (DR) and CR units (imaging plate reader). The software also controls the operation of X-ray generators and X-ray units manufactured by varios companies, thus ensuring an efficient and orderly workflow. The user-friendly and straightforward visual interface functions via touchscreen and mouse.
The **stitching module** creates a single image from separate digital X-ray images. The images are loaded, correctly aligned and merged to one image.
Upgrading

Which possibilities can be added to the dicomPACS®DX-R software?

[optional]

dicomPACS®DX-R may not only be used as a software for the acquisition and processing of X-ray images, but can also be upgraded to a MiniPACS or even to an Enterprise Multi Modality PACS. Thousands of installed workstations in over 100 countries (as of 9/2019) prove that our customers are satisfied.

A single workstation system with installed dicomPACS®DX-R software can be upgraded with the following options (extract):

Extended viewer functionalities

- **Generator control** for transmission of the set parameters for the X-ray image to the generator (for already integrated generators)

- Tools for creating full-leg and full-spine images (image stitching)

- Preparation of diagnostic reports with integrated images in MS Word

- Connection of several diagnostic monitors

- Capturing additional patient and examination data and freely configurable statistical analysis

- Working with digital prosthesis templates for surgery planning and documentation - Prosthesis templates can be selected from a set and inserted into the image as annotations

- Additional radiological functions such as Maximum Intensity Projection (MIP), Multiplanar Reconstruction (MPR), hanging protocols and mammography tools

- And much more…

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

The diversity of **dicomPACS®**

- Image sources
  - MR/CT
  - X-ray
  - NUK
  - DR system
  - CR system
  - Ultrasound
  - Video projector
  - Laser printer
  - Laser imager
  - Mammography
  - Patient CD writer
- Image displaying
  - Video projector
  - Laser printer
  - Laser imager
- dicomPACS® network
- View station
- Multi monitor workstation
- Home workstation
- Cloud sharing
- ORCA® Archive
- Backup server
- Picture archiving
- DICOM cloud
- Interface to HL7/BDE
- Telemedicine
- ORCA® Archive
- NUK
- Ultrasound
- Patient CD writer
- ORCA® Archive
- ORCA® Archive

**Image processing**

- Cloud sharing
- ORCA® Archive
- Patient CD writer
- ORCA® Archive
- ORCA® Archive
- ORCA® Archive
- ORCA® Archive
Upgrading

Upgrade to an integrated multi-modality PACS

[optional]

**DICOM reception** from any DICOM sources, e.g. CT, MRI, scintigraphy, ultrasound etc

**DICOM distribution** with freely configurable rules

**DICOM DIR import** for archiving patient CDs from other manufacturers

**DICOM Query/Retrieve** (SCP/SCU)

**DICOM Auto Pre-fetching**

**DICOM Print Server** to convert DICOM Basic Print into Windows print jobs

**DICOM Compression** according to freely configurable rules

**DICOM CD/DVD Backup Module**, also via robot systems

Integration of **film and document scanners**

Digitalisation of standard and non-standard video signals, e.g. **endoscopy, angiography** etc.

Fully automatic **synchronisation** of two image databases, e.g. laptop and main archive

**Exchange of images and diagnostic reports** between individual clinics by means of teleradiology

**ORCA® – cloud-based solution**: enables worldwide image distribution to referring doctors and patients via the internet [detailed description starting on page 40-41]

**Web-Viewer dicomPACS® MobileView**: distributes images within a hospital and displays the images in a web browser [detailed description starting on page 38-39]

For more detailed information please see: www.or-technology.com
Changing the Capture Mode

Working mode: Lumbar area with catheter

Capture mode: Thorax
Dynamic X-ray

Acquisition, diagnosis and archiving of image sequences [optional]

In addition to classical X-ray examinations, it is sometimes necessary to clarify special suspicious facts and unclear diagnoses further in the context of a radioscopic examination. *dicomPACS*®DX-R supports this procedure with the special imaging mode "Dynamic X-Ray "*, in which the region to be examined is continuously "X-rayed" with pulsed X-rays and displayed directly on the diagnostic monitor.

Dynamic X-rays also allow the evaluation of moving structures, such as the respiration-dependent movement of the diaphragm or the beating of the heart. This examination method is also necessary for various contrast agent examinations, especially of the gastrointestinal tract, which can be excellently imaged with *dicomPACS*®DX-R.

*dicomPACS*®DX-R supports dynamic X-ray with selected X-ray detectors of different resolution and size.

**Advantages of dynamic X-ray with *dicomPACS*®DX-R**

- Before continuous shooting, it is possible to take still images to check the exposure parameters.

- After the recording is finished, the length of the image sequence or Windows level values can be adjusted, for example.

- Various diagnostic options are available, such as playing the sequence as a single frame sequence or as a video via cine loop.

- The recordings can be saved as uncompressed DICOM or in JPEG 2000 format.

- The recording sequence can also be saved as a series of individual images (required for PACS systems that do not support multi-frame DICOM).

*Pending CE and FDA conformity approval for the module

For more detailed information please see: www.or-technology.com
Fully integrated viewer for diagnosing with specialised mammography tools
Modules & Features

dicomPACS® DX-R includes a module for mammography exposures [optional]

Extended acquisition functionality for use in mammography*:

- Specialised organ tree
- Mammography Hanging Protocols
- Documentation of additional examination parameters such as filter, thickness, angle, implant
- Mammography tools in the console viewer:
  - 100% magnification
  - Mammo inversion function
  - Mammo grid function (quadrant diagnosis)

*Pending CE and FDA conformity approval for the module.

Job creation with specialised mammography organ tree

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

The Chiro Tools offer great possibilities for diagnosing accurately as well as for planning further treatment.

Depending on the tool used, automated center lines and points, defined curves, angle measurements etc. are generated after manually selecting of the points of interest.

Dr. Jeff Scholten is a past president of the ICA Council on Upper Cervical Care and the clinic director and owner of The Vital Posture Clinic in Calgary, Canada. He was recognized as the Upper Cervical Chiropractor of the Year in 2015. In addition to other responsibilities he is President of the National Upper Cervical Chiropractic Association (NUCCA).

He works with the dicomPACS® Upper Cervical Chiropractic Tools developed by OR Technology:

„I was very impressed that the software has evolved into a complete analysis tool for ALL diagnostic image requirements, including MRI and CT images. I appreciate the simplicity of working with the tools integrated into the standard image processing software to analyse and calculate the adjustment to be made, which increases the precision of the therapeutic measures.“
Modules & Features

dicomPACS® Standard Chiropractic Tool Set – Diagnostic tools for optimal treatment [optional]

The Chiro Tools have been developed in cooperation with leading experts from the USA and Canada and offer great possibilities for diagnosing accurately as well as for planning further treatment.

**Axis line**
The tool creates a vertical or horizontal axis, depending on the direction in which the mouse pointer is moved.

**Orthogonal line**
This tool is used to mark perpendicular lines on existing or yet to be drawn baselines. The divergence of the base line from the closer axis (horizontal or vertical) is displayed by default.
Spinal curve
This tool is used to draw an arc in the lateral view of the spine. The annotation uses a fixed radius set by default to 220 mm. Radius or degree can be adjusted.

Horizontal or vertical level
This tool calculates the horizontal or vertical level. By default the nearer axis is used for calculation.

Circumscale
An arc is drawn through three defining points and the diameter of the corresponding circle is displayed by default.

Examples
dicomPACS® Standard Chiropractic Tools

George’s line
This tool is used to draw lines on each vertebra along the spine in a lateral view and to detect their distances (in mm or inch).
Vertebrae line
The vertebrae line is generated from the center points of 2x3 manually set points along the spinal canal and displays the side of laterality and the lateral divergence in degrees.

Center point
This tool calculates the center point between two points.

Distance comparison
This tool compares the distances between three set points (between point 1 and point 2 and between point 2 and point 3) and shows the longer distance.

Pelvic obliquity
This tool is a measurement that is calculated automatically after two simple clicks which generate two horizontal lines showing the distance between these two axes.
Upper Cervical Chiropractic (NUCCA)

The Upper Cervical Chiropractic tool set has been created in cooperation with leading experts from the US and Canada. It offers a variety of ways to reach a fast and accurate diagnosis. Our NUCCA tools offer all the advantages of digital working and provide you the security of your usual work routine.
Modules & Features

**dicomPACS® Diagnostic Tools for Upper Cervical Chiropractic (NUCCA)** [optional]

On the following pages we give you an overview of our NUCCA tools. In addition, we will exemplarily show you how single tools work.

### NUCCA procedure – main tools and measurements:

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<td>- Four Elements and Listing Information</td>
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### Other measurements and tools:

- Interactive templates: Cephalometer, Circumscale, Grid, Relatoscope
- A Raw Data Box with all measured values is visible on each view
- Laterality, Skull Tippage, APL/ACL, Body Center, IML/CSL, Lower Angle,
  - Angular Rotation, Atlas Rotation …
- Tools and measurements for the Lateral View: S-Line, Hard Palate Line, Contacts

### General features:

- Progress bar for each view
- Points, lines, values and templates are editable and configurable
- Colours and points are customisable
- A little help menu is available for every single tool. It gives hints for keyboard shortcuts and supports you in how to use every tool step by step.
Examples
dicomPACS® Diagnostic Tools for Upper Cervical Chiropractic

Cephalometer and Central Skull Line
Use the Cephalometer to draw the Central Skull Line. Laterality and Skull Tippage will be calculated automatically. The four elements and listing information will be inserted.

Condylar Circle
Choose between the three point and four point Condylar Circle. The middle point will be shown. You can set the calculated measurement manually to the value you prefer. The Relatoscope will use the shown value.

Odontoid Center and Vertex Square
Mark the lateral aspects of the dens and the Odontoid Center Line will be inserted. After marking the C2 canal, the Vertex Square will be inserted and the Spinous value will be calculated depending on the Condylar Circle.

Odontoid, Spinous and Relatoscope
Use the Relatoscope to apply the Spinous value from Vertex to Nasium View. Mark the lateral aspects of the dens and the (corrected) Odontoid will be inserted automatically.
**Vertex Skull Line**
After marking the nasal structures, click the Inferior Point button. The point will be set automatically depending on the Listing Information value and the Vertex Skull Line will be inserted. Atlas Rotation will be calculated.

**Lower Angle and Angular Rotation**
The Lower Angle and Angular Rotation will be calculated automatically after setting the Inferior Point. You can also set a corrected Inferior Point.

**Intermastoid Line**
Mark the inferior tips of the mastoid processes. The measured value, its orthogonal divergence from the Central Skull Line, will also appear in the raw data box.

**Vertex Atlas Line**
After marking the transverse foramina of the atlas with three points each, the Vertex Atlas Line will be drawn and the convergence of C1 and C2 is shown in the raw data box.
Benefits of Cloud archiving with ORCA®

Minimal expenditure: ORCA® does not require investing in expensive infrastructure such as server and data cables.

Scalability: The amount of memory required when using ORCA® is determined by the demand.

Long-term security: ORCA® archives data on many individual European servers in professional and air-conditioned data centres. Server technology is continuously updated.

Accessibility: ORCA® stands out by being highly accessible. Since data is saved with multiple redundancy, ORCA® guarantees more continuity than a mere server solution.

Environmentally friendly: ORCA® is sustainable – through the optimised use of resources and their distribution.

Location-independent: ORCA® guarantees access to archived patient data – worldwide.

Simplicity: ORCA® allows easy data access from any computer – from your place of work, from the comfort of your home or from any other computer or tablet PC.

Stress-free: ORCA® deals with everything – no need to struggle with loose network cables, removed hard drives or software problems.
Cloud-based telecommunication solution and data archiving for images, documents and diagnostic evaluations for stationary and mobile applications

Even for state-of-the-art practices and hospitals, the rapidly rising data flood of digital images, diagnostic reports and other documents is becoming increasingly challenging. Current legislation demands safe and long-term storage of patient data which generally requires investing in expensive hardware infrastructure as well as maintenance and corresponding staff costs.

To this end, we developed the ORCA® Cloud archiving solution, thus paving the way for cost-effective and safe Cloud-based data archiving in practices and clinics. ORCA® offers two application options:

→ **ORCA® Archive**: Safe, long-term archiving of patient data with intelligent usage of internal databases

→ **ORCA® Share**: Communication platform (exchange of images and diagnostic reports) with colleagues and specialists or as an easy way to forward image data to patients (an alternative to creating patient CDs)

Data is exclusively archived on European servers with the relevant safety certificates.

For more detailed information please see: www.or-technology.com
The main advantages at a glance:

- The web-based viewer offers an important range of functions of a professional PACS viewer:
  - Draw annotations
  - Measurements
  - Registration of diagnostic findings
  - Attach documents
  - Draw lines and arrows (multi-coloured)
  - Compare images in different grids
  - Adjust brightness / contrast
  - Flip and rotate images
  - Adjust brightness / contrast
  - Invert, zoom in / out
  - Full screen, fit image
  - PAN
  - Scroll through image series
  - Cine loop for multi frame series
  - CT / MRI
  - Export images and documents
  - Print images and documents
- High flexibility through compatibility with various internet browsers, including Microsoft Internet Explorer, Mozilla Firefox, Google Chrome, Safari 5, Safari for iPad and Android browser
- Intuitive operation
- Supports the multi-touch operating technology (e.g. zoom in and out with two fingers)
- Supports full screen mode
- Allows accessing the dicomPACS® database without any additional modules
- Allows playing series (e.g. ultrasound)
- High loading speed with modern streaming technology

Further information about dicomPACS MobileView is available here.
Modules & Features

Web-based viewer solution *dicomPACS® MobileView* for mobile or stationary devices [optional]

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The web-based viewer *dicomPACS® MobileView* counts among the many extension modules of the *dicomPACS®* diagnostic software. **Virtually browser-independent, it allows viewing image material on mobile devices also outside a clinic or a practice.** The doctor or nursing staff can access all image material from the *dicomPACS®* system worldwide via a network connection.

In addition to mere diagnostic evaluation of images, the *dicomPACS® MobileView* viewer **allows diagnostic reports to be captured and exported.** Documents can be attached and exchanged. All diagnostic reports of a patient are always displayed. Individual reports of a patient may be selected for exporting and formatted.

There are many applications. On-call hospital doctors can promptly make a first diagnostic thanks to *dicomPACS® MobileView*. This saves the patient a lot of time and additional visits. But also during a ward round, further treatment can be discussed together with the patient or colleagues directly at the bedside using a mobile device.

*dicomPACS® MobileView* can be installed in addition to existing *dicomPACS®* diagnostic modules (diagnostic workstations). It is irrelevant whether the *dicomPACS® MobileView* software is used on a network PC (pure viewing workstation) or / and on a mobile device. **Worldwide access to all image material** is available via a network connection, e.g. VPN access via the internet, of the used mobile device to the central *dicomPACS®* system in the office or clinic.

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