ORCA

The **DICOM cloud**
for medical images and documents

Archive, view and share images, findings and documents (telemedicine)

Share images and documents

Archive images and documents

Image generation →

Automatic archiving in the cloud →

Authorisation for colleagues or referring physicians to access studies →

Access to images and diagnoses from mobile devices →

Diagnosis by external colleagues / diagnostic centres →

ORCA

Cloud based telemedicine and archiving for practices and hospitals

Cloud solutions have been tried and tested worldwide. This technology provides access to state of the art software services on a pay per use basis, while simultaneously reducing the need for expensive computing and communications infrastructure in the office.

An ever growing number of companies has chosen to rely on services and storage hosted remotely in the "cloud". Today's high data transmission rates make remotely hosted services ranging from simple image backups to complete collections of servers increasingly attractive. Applications and data stored remotely are accessible wherever a connection to the internet exists.

A daily challenge in human medicine is processing the large volume of images generated by modern equipment. Medical diagnostics greatly benefit from advances in high quality imaging techniques and at the same time is faced with growing data volumes.

ORCA (OR Technology Cloud Archiving) is a software solution designed to make every day work in private practices and hospital easier, cheaper and more efficient. **ORCA** archives medical images and documents on its remote access servers using highest security standards. At the same time, **ORCA** is an online platform for sharing medical images and findings with doctors and other authorised persons. The service is scalable, allowing adjustments in storage space as demand grows.

Capabilities

ORCA offers two exciting applications:
ORCA *Archive* and **ORCA** *Share*

ORCA *Archive*

Archive and backup solution

ORCA *Archive* transfers and stores image files from direct sources (e.g. digital X-ray, CT, MRI and ultrasound systems) as well as from PACS (Picture Archiving and Communication Systems). **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**®.

ORCA *Share*

Communication platform and telemedicine solution

At the same time, **ORCA** is a platform for sharing data with external partners. The application **ORCA** *Share* facilitates exchanging images, documents and medical findings with staff, colleagues and specialists. **ORCA** *Share* can also be used to give patients access to medical reports and images.

Recipients are sent an access link pertaining to specific files via email. There is no need to install software locally.

ORCA

- **Secure image and document storage** as well as easy access for authorised persons
- **Efficient workflow** – optimised for medical applications
- Images available in JPEG format and lossless **DICOM quality**
- **Comprehensive editing,** measuring and reporting tools
- Optimised for **mobile devices**
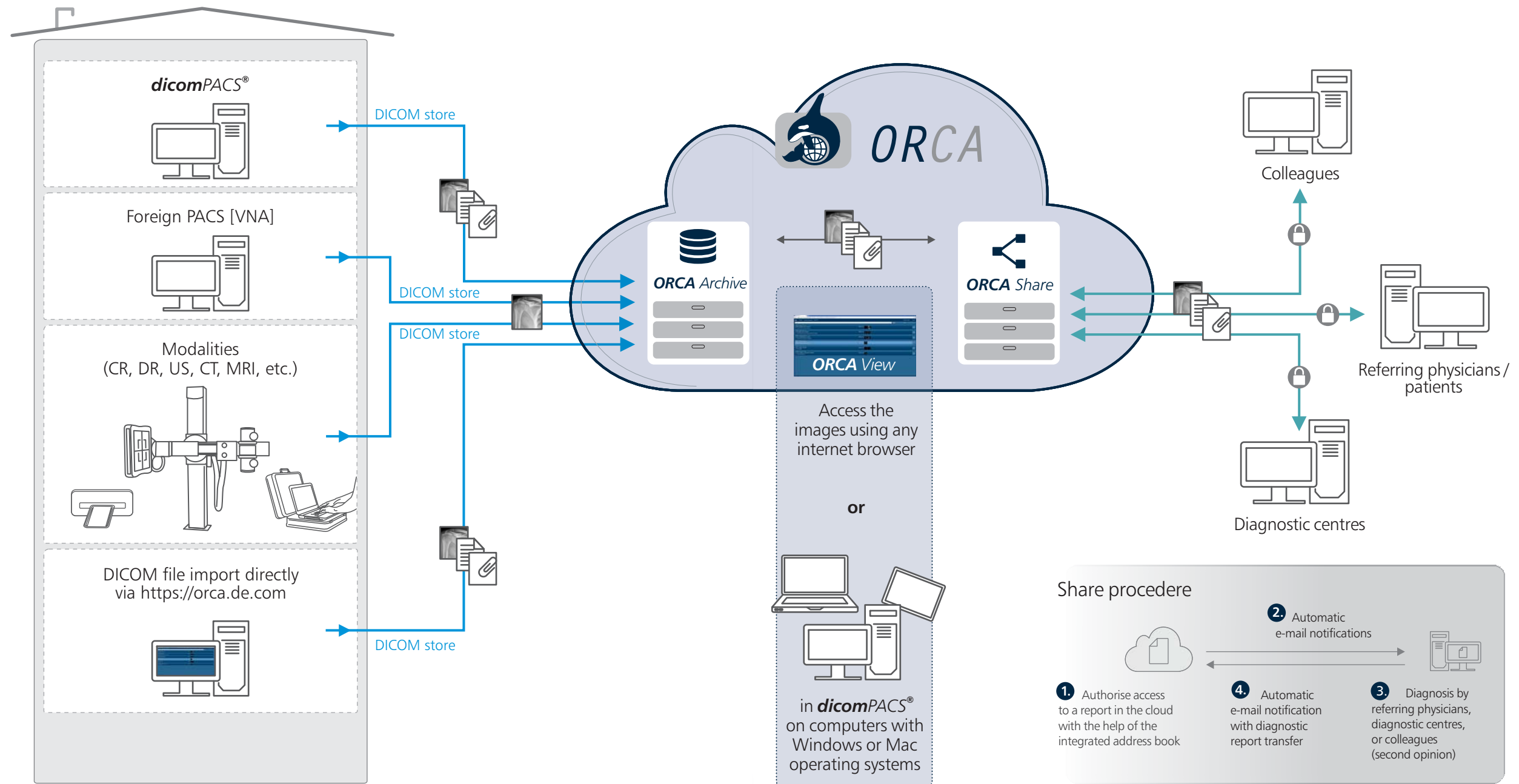- Straightforward and **intuitive handling**

How does *ORCA* work?

OR Technology Cloud Archiving

| **Upload** images / documents | **Access** images / documents | **Share** images / documents |

dicomPACS®

DICOM store

Foreign PACS [VNA]

DICOM store

Modalities
(CR, DR, US, CT, MRI, etc.)

DICOM store

DICOM file import directly
via https://orca.de.com

DICOM store

ORCA Archive

ORCA View

Access the
images using any
internet browser

or

in *dicomPACS®*
on computers with
Windows or Mac
operating systems

ORCA Share

Colleagues

Referring physicians /
patients

Diagnostic centres

Share procedere

2. Automatic
e-mail notifications

1. Authorise access
to a report in the cloud
with the help of the
integrated address book

4. Automatic
e-mail notification
with diagnostic
report transfer

3. Diagnosis by
referring physicians,
diagnostic centres,
or colleagues
(second opinion)

Advantages of the DICOM cloud

Intelligent telecommunications solution and archiving of images, documents and medical findings for stationary and mobile applications

Fast access

Register on https://orca.de.com and begin working with **ORCA** immediately.

No expensive equipment

ORCA provides access to remote servers and software solutions. There is no need for an office filled with expensive equipment. Billing is usage based (flat rate or pay per use).

Excellent scalability

System memory can be adjusted according to your requirements.

24/7 access

Images and documents are accessible at any time from all mobile and stationary devices with an internet connection.

Straightforward

The user friendly interface is self-explanatory. Support is available online.

No more service contracts

ORCA is automatically updated and serviced without extra charges.

Data security

ORCA guarantees automatic data backups and high security standards. Data loss as a result of malware or hardware failure is a thing of the past.

Accessibility

Excellent accessibility is *ORCA*'s top priority.

Fit for the future

ORCA archives all data in modern computing centres. The Server technology is regularly updated.

Communication

ORCA is also a communication platform. Sharing images and documents with doctors and other authorised persons is a breeze.

Optimal workflow

ORCA's many special functions and settings make workflow customisation easy.

Test *ORCA* for free!

The ingenious medical cloud

A selection of the **ORCA** Cloud's outstanding benefits for medical applications

Upload and archive images and documents

Import images from any PACS

Images and documents in DICOM format can be sent directly to **ORCA** from any PACS. Alternatively, files can be imported and archived via **ORCA** *View*.

Archive images directly from the modality

All medical imaging devices (e.g. digital X-ray, CT, MRI and ultrasound units) can send DICOM images directly to **ORCA** for archiving.

Access images - any time, any place

Images can be accessed via the internet using the **ORCA** *View* program.

Import images into any PACS

Images and documents can be transferred from **ORCA** to local computers and imported into existing PACS.
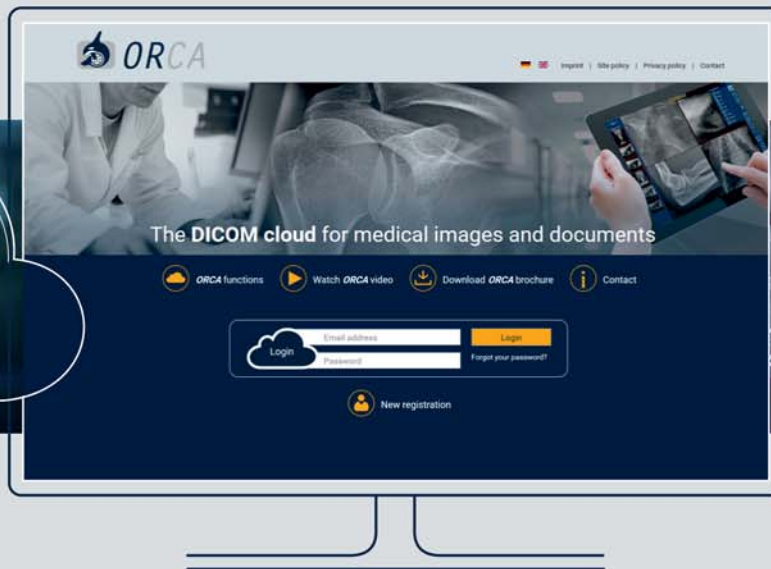
Direct access via *dicomPACS*®

OR Technology's *dicomPACS*® software accesses the **ORCA** database directly, without needing to download the images first.

and many more ...

Test *ORCA* for free!

Share images and documents

Sophisticated telemedicine

Images can be shared in different ways:
- directly via the **ORCA** website using an integrated address book
- via our **dicom**PACS® image management system

Straightforward procedures

Recipients (colleagues, referring physicians, diagnostic centres) receive a secured access link via email. Email templates can be programmed. Image access dates and **ORCA** download permissions can be specified.

Medical findings are collated

New findings are appended to existing entries and related documents. The collated documents form the findings history. These documents can be sealed using a digital signature.

File attachments for clinical studies

Files in any format (e.g. PDF, Excel) can be appended to clinical studies. This allows relevant documents including consent forms, explanations and other information to be found and accessed quickly.

and many more ...

Web based viewer

ORCA *View* for mobile devices (Android or iPad), PCs, Netbooks

Images can be viewed directly via our **dicom***PACS*® image management
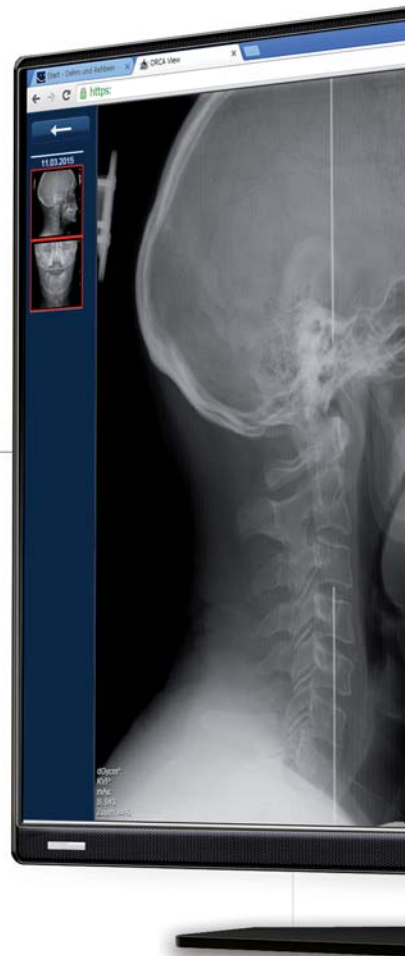system or with the **ORCA** *View* program.

ORCA *View* is a cross-platform application for all browsers and mobile
devices. **ORCA** *View* allows doctors and caregivers to access radiological images
24/7, whether they are in the hospital, a practice or making a house call.

Our web based viewer offers all key functions of a professional PACS viewer.
In addition to image viewing, the program includes image processing options,
comprehensive tools for searching, editing, comparing and exporting, as well
as several measurement functions. Custom report templates facilitate
writing eports.

Using **ORCA** *View* requires no local software installation.

Security and data privacy

ORCA guarantees secure and cost effective storage of large data volumes
in the cloud (DICOM images, documents, attachments). In keeping with highest
security standards, your documents are stored and automatically backed up in
your designated **ORCA** archive on servers physically located in Germany and
subject to German data protection regulations. Malware and data loss as a
result of hardware failure are problems of the past. The service is scalable
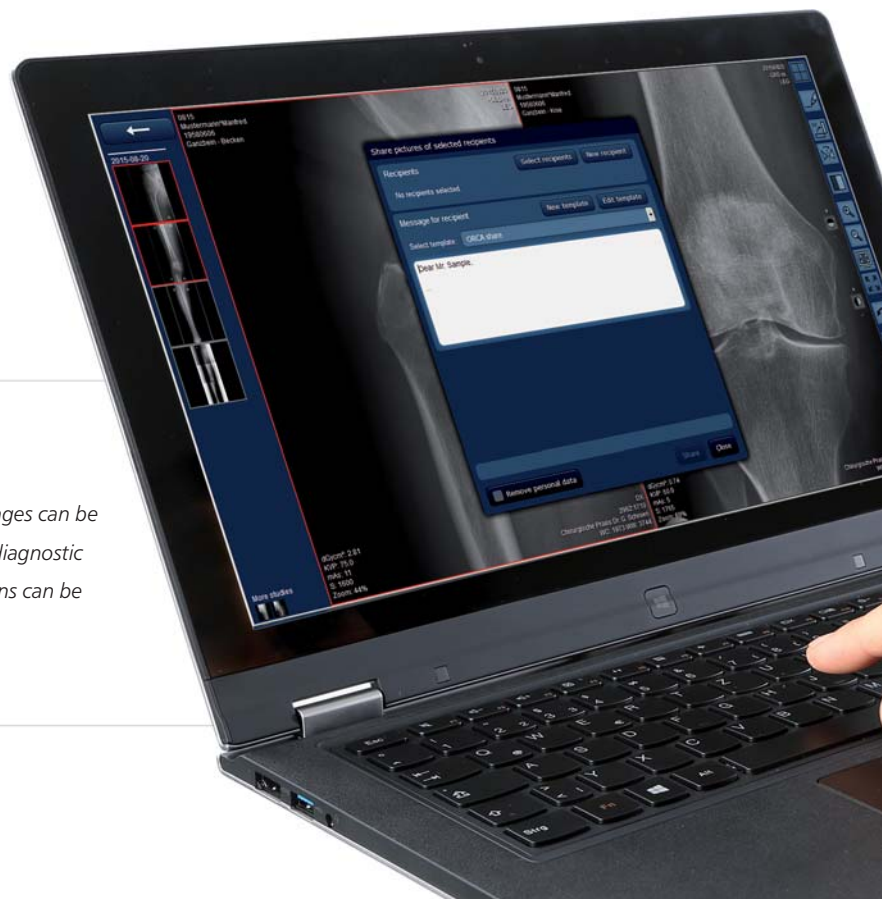and can be adjusted to your requirements.

ORCA *View*

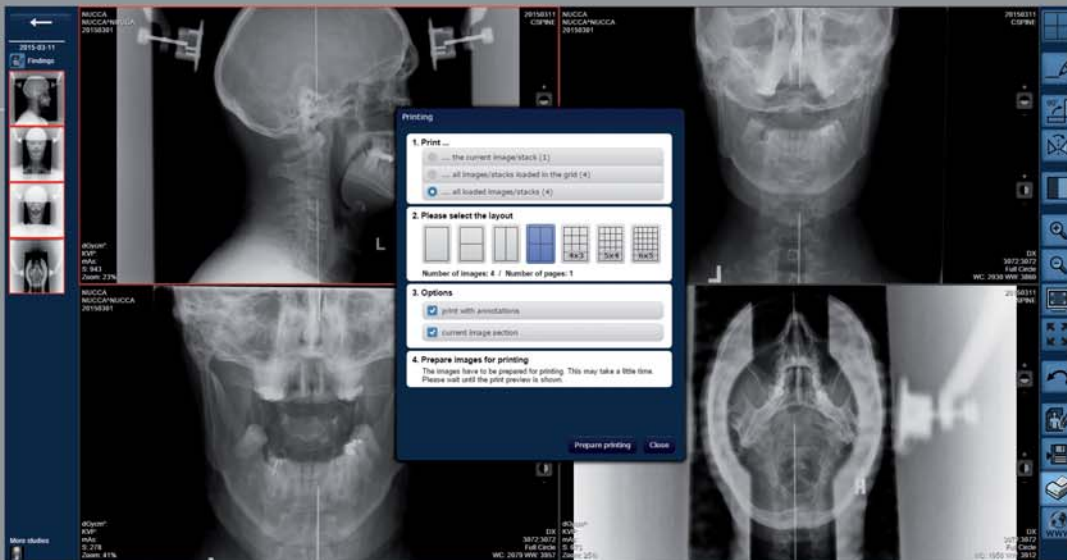## offers all essential functions of a professional PACS viewer

ORCA *View* is a web based image viewer offering file sharing capabilities (e-mail with integrated address book, image anonymisation, etc.), print and export functions, as well as all basic functions for viewing and analysing images:

- Image annotation in various colours (e.g., arrow, text)
- Measurement (e.g., length, angle)
- Findings reports including custom report templates
- File attachment
- Image comparison using different grids
- Image rotation and mirroring
- Brightness and contrast adjustment
- Image inversion, zooming in/out
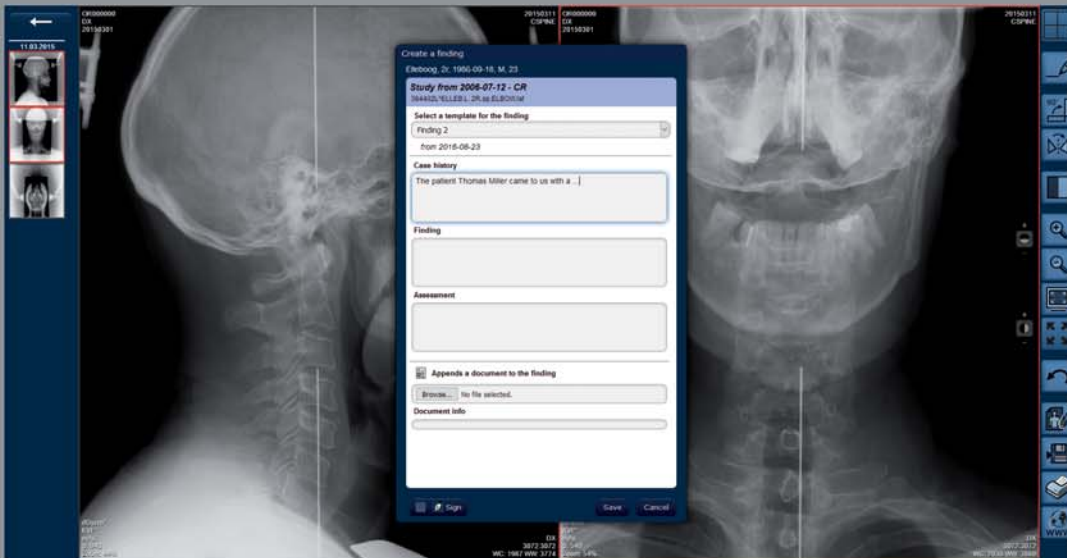- Full screen and fit image modes
- Image panning
- Image series scrolling

E-mail template with integrated address book

E-mail templates for notifications concerning new images can be programmed (e.g., for colleagues, referring doctors, diagnostic centres). Image access dates and download permissions can be specified.

Print images and documents

Medical reports including customisable report templates

*Various functions for image processing: image inversion,
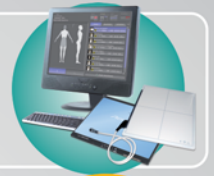brightness and contrast adjustment, resizing*

Portfolio

Overview - products of OR Technology

Medici DR Systems

DR retrofits - digital upgrade set for existing X-ray systems incl. *dicomPACS*®*DX-R* acquisition software, also available for stationary and mobile X-ray machines

Leonardo DR Systems

DR suitcases - compact suitcase solutions for portable X-ray incl. *dicomPACS*®*DX-R* acquisition software

Amadeo X-ray Systems

Complete digital X-ray systems (incl. stand, bucky, generator, flat panel incl. *dicomPACS*®*DX-R* acquisition software etc.) as well as mobile and portable X-ray solutions

Divario CR Systems

CR solutions - CR systems for digital X-ray with cassettes incl. *dicomPACS*®*DX-R* acquisition software

X-ray Accessories

Accessories for X-ray (e.g. radiation protection walls, gloves etc.)

dicomPACS®

Image management (PACS) - comprises acquisition, processing, diagnosis, transfer and archiving of image material

ORCA

Cloud-based archive solution - safe, long-term archiving of patient data with intelligent usage of internal databases, communication platform with colleagues and specialists and transfer of image data to patients

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

X-ray acquisition software [only for OEMs] - acquisition and diagnostic software for X-ray images from flat panels or CR systems

---

OR Technology
Digital X-ray and
Imaging Solutions

Info hotline: +49 381 36 600 600

OR Technology (Oehm und Rehbein GmbH)
18057 Rostock, Germany, Neptunallee 7c
Tel. +49 381 36 600 500, Fax +49 381 36 600 555
www.or-technology.com, info@or-technology.com

[Stamp of distribution partner]