

 Leonardo DR 1417

The DR system in a suitcase for mobile veterinary X-ray



total weight
only ca.
22 kg

The portable DR system for mobile X-ray

OR Technology has been active in the fields of digital X-ray technology and image management for human and veterinary medicine for over 15 years. Big medical practices, clinics and hospitals as well as in smaller practices in more than 36 countries are using our solutions with great success.

LEONARDO DR 1417 - portable digital X-ray system with outstanding features

The compact suitcase solution **Leonardo DR 1417** is a fast and space saving alternative for ambulant digital radiography.

The handy, robust suitcase made out of shock proof materials, is easy to handle and transport with its extendable handle and the integrated wheels. It also offers the option to integrate a fold-out table.

An integrated notebook with a very high resolution guarantees a qualitative good image viewing and image diagnosis.

The integrated and robust 14"x17" flat panel detector is suitable for rapid mobile radiography systems. The detector only weighs ca. 3 kg and is based on the new Gigabit-Ethernet-Interface. The images are displayed on the work station within seconds.



Areas of application:

- Mobile veterinary practices
- Equine clinics
- Universities
- Both large and small animal practices

Professional software for image acquisition and diagnostic:

- Can be used intuitively - developed in cooperation with acknowledged horse specialists
- Image acquisition, work flow and diagnosis within one software
- Automatic display of recommended X-ray data (KVp, mAs etc.) for every image - depending on the X-ray equipment used
- Over- or underexposure are adjusted automatically
- Option to capture frequently repeated examination processes as makros, e.g. pre-purchase examinations
- Retake mode to repeat an image without interrupting the work flow
- Integrated radiographic positioning guide for correct preparation of each examination
- Outstanding image quality due to the special **dicomPACS®DX-R** image filter technology for each examination
- Easy adaptation of the image filters to the specific viewing habits of different doctors
- Option to suppress grid lines
- Integrated professional diagnostic software **dicomPACS®vet** - tried and tested on over 5,000 workstations worldwide
- Extensive measuring functions, including specialised orthopaedic measuring tools
- Compilation of patient CDs
- Extensive archiving and search functions
- Synchronisation with other databases
- Integrated remote maintenance software
- Option to integrate the **dicomPACS®vet** web server for image distribution via the internet
- Full DICOM 3.0 functionality for integration with other PACS systems
- Option to upgrade to PACS, incl. connection of all modalities (DICOM or non-DICOM) e.g. MRI, CT, NUK, arthroscopy, endoscopy, ultrasound etc.

The suitcase:

- **Very small** and robust thanks to special developed materials and excellent workmanship
- **Easy to transport**
- **Very light** - only 22 kg incl. flat panel, notebook and cables
- **Highest possible resolution** and diagnostic image quality by the large 17" display (at least 1,600 x 1,200 pixel)
- **Very quick** - only approx. 4 to 5 seconds wait for the image and just approx. 2 seconds before the next exposure can be taken





Leonardo DR 1417

Leonardo DR 1417

operation:

For this solution, the images are received by so called flat panels. The systems are called DR (direct radiography) systems. The flat panels are usually connected to the computer (notebook) by cable.

All necessary components, cables included, are housed in a sturdy, compact case. Open up - switch on - ready!

A range of DR detectors of various sizes are available for various needs, and can be integrated in the case system as required for the application in question.

Such a compact system enables you to quickly create excellent images in DICOM format, as well as to process, diagnose and archive them.

You will save time, space and money; repeat visits to the patient are avoided; the system operates under almost all conditions and is nearly maintenance free.

A number of different DR detectors in various sizes are available for different requirements, which can be integrated into the suitcase solution as required.

For more detailed information please visit www.or-technology.com or please feel free to contact us by info@or-technology.com

Dimensions:

Open:



Closed:



Leonardo DR 1417

Construction of **Leonardo DR 1417** system



1.

The pull-out trolley handle allows easy transport from vehicle to treatment site.



2.

To set up the system, push in the trolley handle and lay the case on the ground.



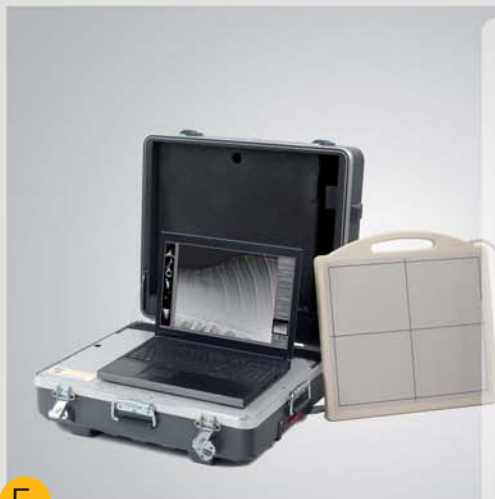
3.

All the components, i.e. detector, laptop, cable etc. are neatly arranged in the case and at hand for immediate use.



4.

Network cable, connection for power supply and remote control are integrated with a special restraint system which prevents them from slipping and sliding.



5.

Just switch on the laptop, connect the detector with the X-ray unit and start making exposures.



Compartment for mouse and cables

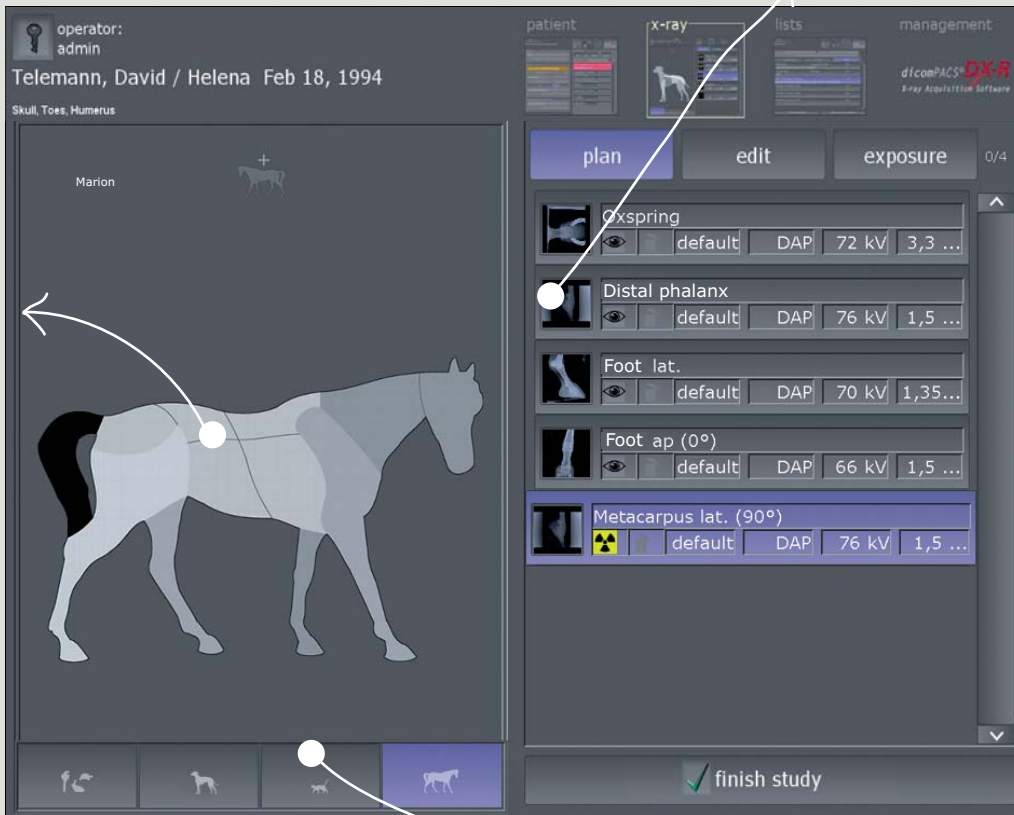


Compartment for patient CDs and general on-off switch

Screenshots

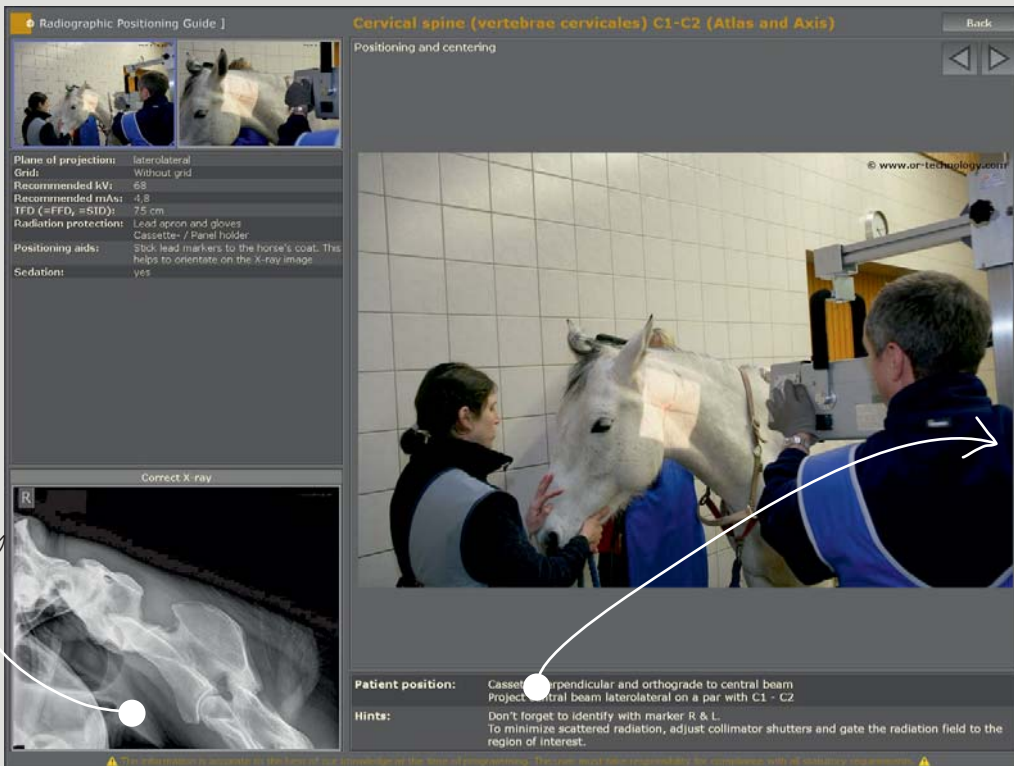
The correct settings for horses, dogs and cats - are available at a mouse click

Chart for the planning of an individual X-ray job



dicomPACS® DX-R job planning

Switch to planning X-ray jobs for cats, horses or small animals/exotic animals



dicomPACS® DX-R X-ray positioning guide

Shows an image of a correct X-ray examination

Provides numerous hints on patient positioning, central ray, tips and tricks, common mistakes etc.

Screenshots



The generator panel displays all values (kVp, mAs, focus etc.) recommended for a specific examination

dicomPACS® DX-R generator control



Stepless zoom, PAN, magnifyer, ROI, crop, rotate, mirror and insertion of image annotations, measuring of distances, angles, areas and density etc...

Easily upgradable to the professional, integrated image management system (PACS)

Integrated professional 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

In action



Spezifikation



Flatpanel

Type:	Toshiba FDX3543RP flat panel detektor
Pixel area:	35 x 42.6 cm (13.8" x 16.8")
Pixel Size/ Pixel Pitch:	143 μm^2
Matrix/ Pixels:	2.448 x 2.984 pixel
Method/ Receptor Type:	Amorphous Silicon (a-Si) technology with Caesium-Iodid (CsI) scintillator
Dimensions:	38.4 x 46.0 x 1.5 cm (BxHxT) (ISO 4090)
Weight:	ca. 3.0 kg



Notebook

Intel® Prozessor, 8 GB RAM, 39.6 cm (15,6") Full-HD Display (1,920x1,080), 500 GB hard drive

Extensive software package included

- **dicomPACS® DX-R Console Software**
The package includes the console software, an interface for one flat panel, organ specific image processing, a Diagnostic Module Standard and the multimedia radiographic positioning guide
- **dicomPACS® DX-R DICOM Patient CD**
Creates patient CDs, which include DICOM DIR structure and a viewer (free of charge)
- **dicomPACS® DX-R DICOM Send SCU**
Automatic distribution of images to one DICOM recipient, e.g. PACS
- **Remote maintenance software**



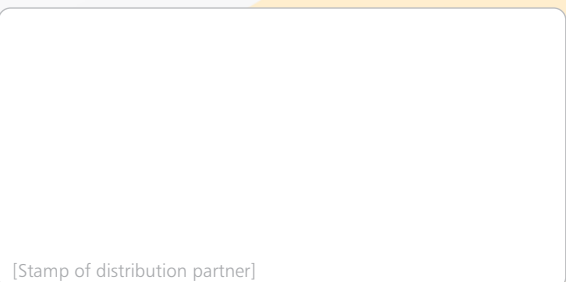


Specifications subject to revision without notice

The editor strives to impart correct and up to date information. The provided specifications are based on current knowledge and are subject to revision without notice. This brochure is subject to correction. The editor assumes no responsibility for the information being up to date, correct and complete. All furnished logos, pictures and graphics are property of the particular company and subject to copyright of the licensor. Use, dissemination, distribution or copying of the pictures, logos or text compiled or processed by the editor is subject to our written consent. All rights reserved.



OR Technology
18057 Rostock, Germany, Waldemarstraße 20 g/h
Tel. +49 381 - 20 36 126, Fax +49 381 - 20 36 111
www.or-technology.com, info@or-technology.com



[Stamp of distribution partner]

Info hotline: +49 381 - 20 36 126