

Digital radiography with the complete X-ray system **Amadeo V-DR** for small animals





The universal complete solution for digital X-ray imaging

So you would like to invest in an efficient and universal X-ray system and make use of the numerous advantages of digital X-ray imaging? And you insist on a system that is easy to install and operate and requires little space? OR Technology has a complete solution tailor made for your requirements. **Amadeo V-DR** was specially developed for use in veterinary practices and includes all the necessary components and functions for digital X-ray imaging without cassettes – such as a patient positioning table with floating tabletop, a generator, a flat panel, a PC and the *dicomPACS®DX-R* acquisition and diagnostic software.

The compact construction of the **Amadeo** *vet* system allows installation in extremely confined spaces. The X-ray generator uses minimal space and is integrated directly into the X-ray table. The system is easy to operate and flexible for various imaging techniques.

The optimised workflow of the **Amadeo** *vet* system reduces the number of steps that have to be taken. This saves you time as well as personnel and financial resources.

The *dicomPACS®DX-R* control console includes all functions required to operate the X-ray system: from controlling the X-ray generator to capturing the complete high quality image ready for diagnostic evaluation. All the necessary adjustments can be made from one single control console. In addition, the integrated multimedia X-ray positioning guide provides numerous hints on the correct adjustment technique and the positioning of the patient.

Benefits

Digital X-ray imaging with Amadeo V-DR

Fconomical

You will be able to make use of the numerous benefits of the **Amadeo** *vet* system at low daily running costs.

Your advantage: The most up to date digital X-ray technology at an affordable rate.

Excellent image quality

The high quality flat panel detector based on a caesium iodide (CsI) scintillator stands out with top image quality even at low X-ray doses. Your advantage: Edge in quality compared to the widely used GadOx (Gd²O²S:Tb) panels.

User friendly

The professional *dicomPACS®DX-R* acquisition software provides an intuitive and modern graphic user interface. Examinations may be conducted comfortably at the monitor while all necessary adjustments of the X-ray values are automatically communicated to the generator. Your advantage: X-ray values do not need to be entered manually at the control console of the X-ray system.

Optimised workflow

By using the direct radiography detector, the annoying extra effort of transporting cassettes to the imaging plates system is no longer necessary. Waiting periods at the units no longer occur. In addition, the legally prescribed X-ray journal is kept for you digitally. Your advantage: Enables easy workflow with optimal documentation.

Fast

Shortly after taking the shot (6 - 8 seconds), the X-ray image is already available for viewing and diagnostic evaluation. Your advantage: Provides quick results with optimal documentation.





Efficient

Since it can be integrated into your existing practice administration system, patient data is transferred by just "pressing a button". Your advantage: The tedious process of entering patient data manually is no longer necessary.

Cleverly designed

An integrated X-ray positioning guide provides information on the correct positioning technique for any examination of cats and dogs. <u>Your advantage:</u> The X-ray process becomes easier.

Unique

Special measuring functions such as HD measuring, TTA, TPLO and heart measuring are provided without any extra cost. <u>Your advantage:</u> Evaluation of images becomes much easier.

Convenient and easy

The patient positioning table is equipped with a floating tabletop. <u>Your advantage:</u> Allows generous maneuvering and can be operated conveniently from the front panel.

Compact construction

The X-ray generator is incorporated directly into the table of the **Amadeo** vet system using up minimal space.

<u>Your advantage:</u> Space saving installation / no additional cable ducts or generator floor space required (space and cost saving)





Software

Advantages of the professional *dicomPACS®DX-R*X-ray acquisition software

- Modern graphic 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 the transfer of all relevant examination data directly from the connected patient management system (HIS/RIS)
- Freely configurable body parts with more than 200 projections and numerous possible adjustments in 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
- Special tools for veterinary medicine, such as an extra dialog box for patient and owner data, integrated hip dysplasia measuring, special image filters, TPLO, TTA, Buchanan's Vertebral Heart Score, distraction index, multi generator operation for alternating between mobile and stationary systems and much more...
- Entry of recurring examination procedures as macros
- Fully integrated radiographic positioning guide for each examination incl. comprehensive notes, photos and correct X-ray images
- A single work station with installed dicomPACS®DX-R software may be upgraded by the following options (selection):
 - Image stitching tools for stitching an overall image from separate
 X-ray images (optional)
 - Planning and working with digital prostheses templates/ operation planning (optional)
- Facilitates the use of a flat panel and an intraoral sensor



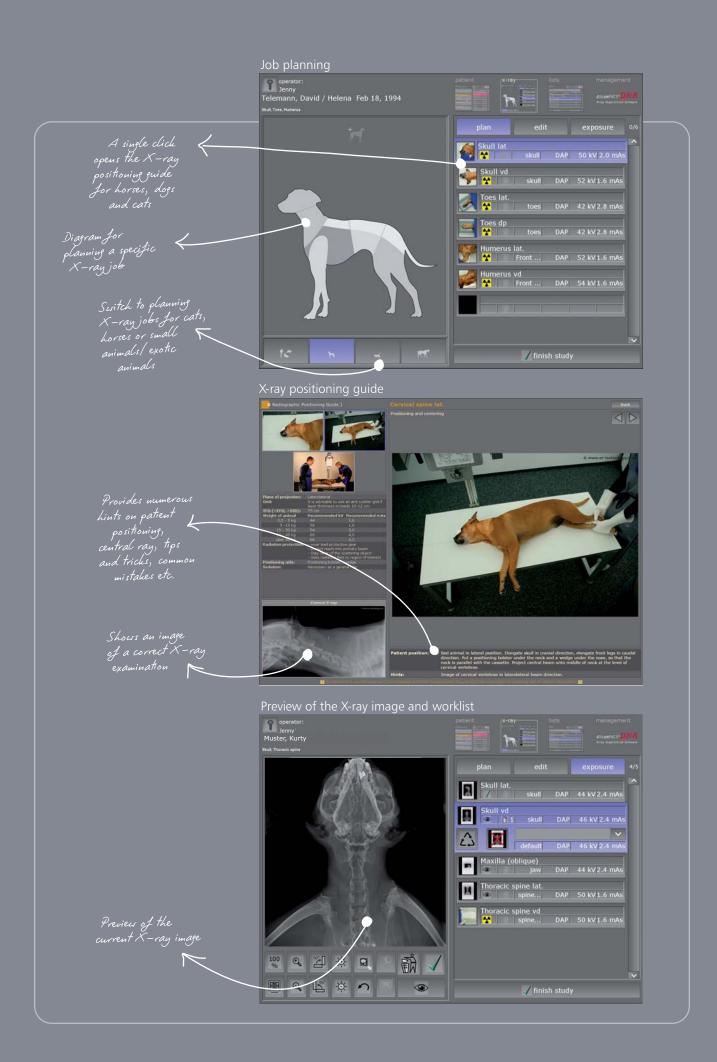


Image processing

Automatic image processing for optimal quality

- Perfect images at all times generally no adjustment required
- Integrated software for automatic image optimisation
- Professional, adaptable image processing for each individual examination to obtain best possible image settings for the needs of each customer
- 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 reducing the dosage)
- Bones and soft tissue in one image this enables the user to significantly improve his diagnosis
- Details of bones and microstructures are very easy to recognise
- Noise suppression
- Black mask (automatic shutters)
- Cropping of images (Crop function)
- Automatic removal of grid lines when using fixed grids



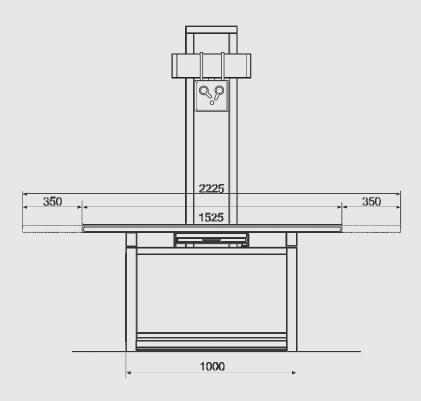
Exposure with **standard** image processing



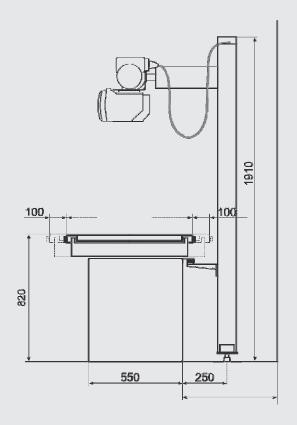
Exposure with dicomPACS®DX-R image processing

Dimension bucky table **Amadeo V-DR**

Front

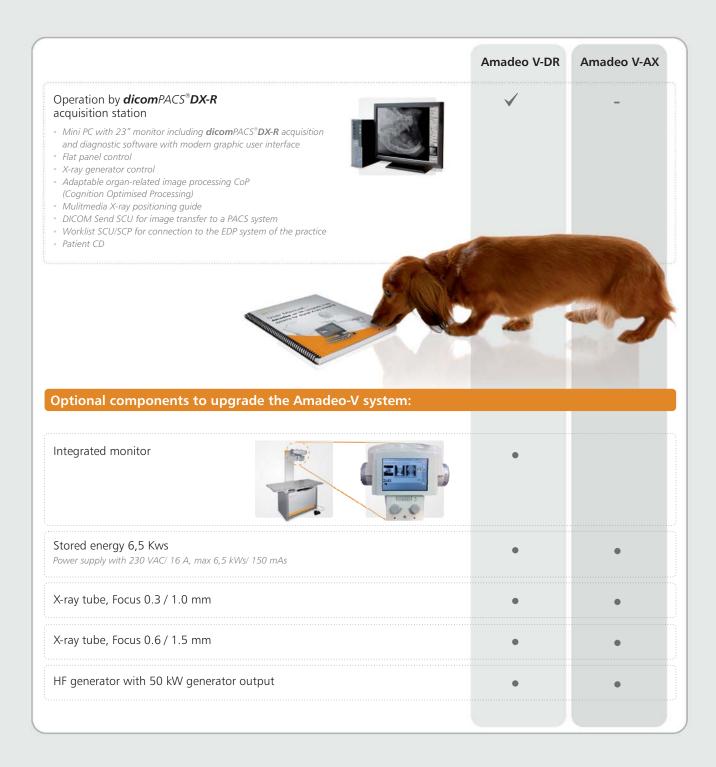


Profile



Delivery includes The Amadeo-V systems includes the following components

Components	Amadeo V-DR DR system with integrated fixed dual flat panel	Amadeo V-AX System for film/ CF cassettes without generator control
HF generator 32 kW generator output (max 400 mA, 40 - 125 kVp, 0.5 - 500 mAs)	✓	✓
Bucky table Stable and robust column construction, firmly flanged to the table FFA= 100 cm 4-way floating table (152 x 72 cm), generous maneuvering, silent brakes Trigger with double-stage foot switch or optional hand switch Dose optimised table top, side mounted stabiliser bars Integrated grid Compact construction allows installation in very confined spaces Low maintenance powder coating – resistant to impact damage Easy to clean		✓
X-ray tube 125 kVp 1.0 / 2.0 mm	~	~
Collimator, symmetric with close and far focus lead plates, with halogen or LED lighting, manual operation via the brake panel, extended illumination period (approx. 2.5 min)	~	~
Motorised bucky with removable grid	~	~
Flat panel detector 35 cm x 43 cm very high sensitivity and high resolution with low X-ray dosage Csl screen Response time: no time delay for the release of the X-ray shot Active area: 13.8 x 16.8 inch (35.0 x 42,6 cm) Pixel matrix: 2,448 (H) x 2,984 (V) (7,3 Mio Pixel) Pixel pitch: 143 µm Size: 38.4 x 46.0 x 1.5 cm (B/H/T) Weight: Sensor unit: approx. 3 kg	✓	-



Vet portfolio

Overview - products of OR Technology

 $\stackrel{ ext{$ullet}}{ ext{$ullet}}$ Medici DR Systems vet

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



Leonardo DR Systems *vet*

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



Amadeo X-ray Systems vet

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



Divario CR Systems vet

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



X-ray Accessories

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



dicomPACS® vet

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





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