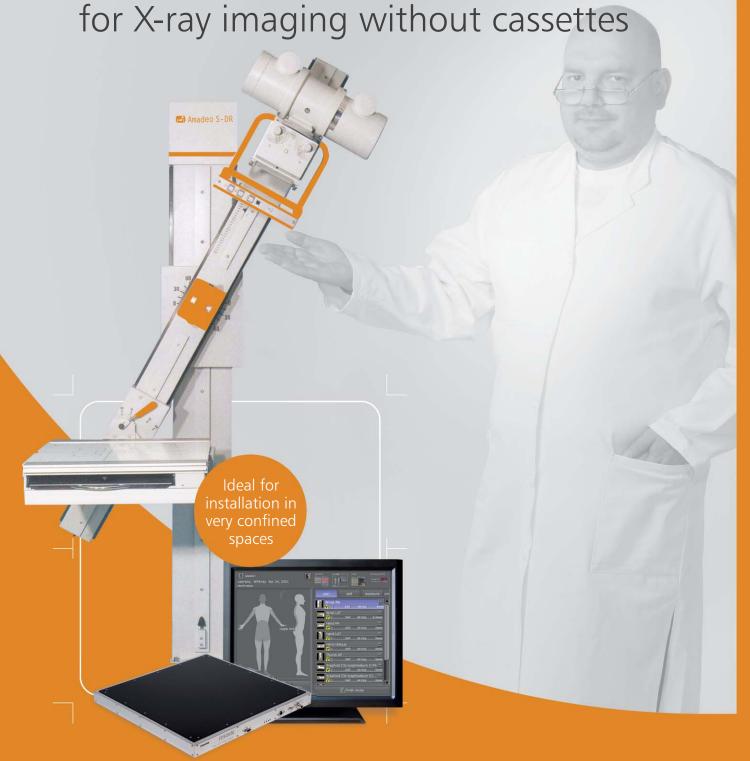


Digital radiography

with the **Amadeo S-DR** U-arm system





Amadeo S-DR

Compact U-arm system for confined spaces

Digital X-ray systems offer the advantage of an efficient and economical workflow. Compact systems require minimal space and are easy to operate, which makes them ideally suited for private practices. It goes without saying that they deliver perfect image quality as well.

The **Amadeo S-DR** U-arm X-ray system is a universal imaging stand with an optional mobile patient table. Images of patients in a standing, sitting or lying position can be taken effortlessly thanks to the special cross arm and the long vertical operating range. The compact design of the **Amadeo** X-ray stand allows it to be installed in very confined spaces.

The unit is impact resistant and easy to clean due to its powder coated surface. Its ergonomic handles allow it to be moved and rotated safely with just one hand. Electromagnetic brakes dampen all movements, except when tilting the bucky device which locks at 0°. The **Amadeo S-DR** is completely counterbalanced and fitted with roller guides, making it particularly smooth running and silent.

The *dicomPACS®DX-R* control panel operates the entire X-ray system from controlling the X-ray generator to the finished, high quality image ready for diagnostic evaluation, and including all necessary settings. In addition, the integrated multimedia X-ray positioning guide offers many tips on the correct adjustment technique and positioning of the patient.

Benefits

Digital X-ray imaging with Amadeo S-DR

Ideal for small rooms

The X-ray system has been designed for small rooms – images of patients in a standing, sitting or lying position can be taken effortlessly thanks to the special cross arm and the long vertical operating range.

Benefit: Fully functional in confined spaces.

Excellent image quality

The standard high quality direct radiography detector operating on the basis of a caesium iodide (CsI) scintillator provides excellent quality even in the case of low X-ray dose parameters.

Benefit: In particular when comparing images directly to the commonly used GadOx (Gd²O²S:Tb) detectors, this enhanced quality is clearly visible.

Fast

The X-ray image is available for viewing and diagnosis within 6 – 8 seconds after the exposure is triggered.

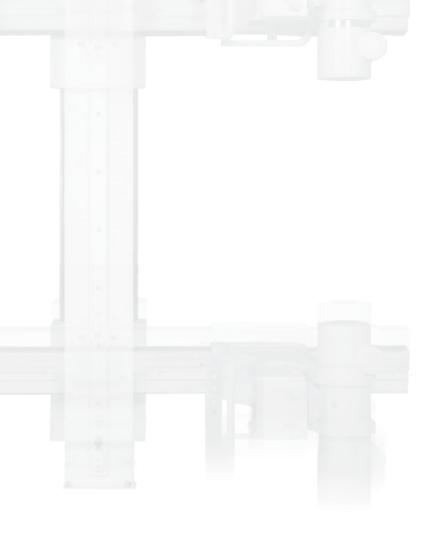
Benefit: Fast work flow with optimal documentation.

Easy to operate

The X-ray unit can be moved and rotated safely with one hand. Electromagnetic brakes dampen all movements, except when tilting the bucky device which locks at 0°. The Amadeo S-DR is completely counterbalanced and fitted with roller guides, making it particularly smooth running and silent.

Benefit: Safe and easy operation





User-friendly

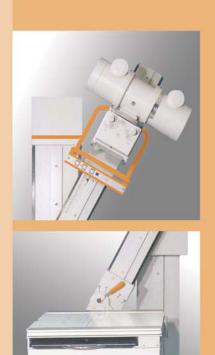
The professional *dicomPACS®DX-R* acquisition software appeals through an intuitive and modern graphical user interface. Examinations may be conducted comfortably at the monitor while all the necessary adjustments of the X-ray parameters are automatically communicated to the generator.

Benefit: You work with only one control console.

Cleverly designed

Due to the 43cm x 43cm detector, the extra effort of rotating from vertical to horizontal images is no longer necessary. When the grid is removed, it is, of course, also very easy to take images of extremities etc.

Benefit: No extra effort is required to rotate the detector.









Software

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

- Modern graphical user interface (GUI) adaptable to almost any language
- 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
- 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
- Integrated measuring, special image filters and many other tools for measuring and image optimisation
- 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 in human and veterinary medicine incl. comprehensive notes, photos, videos and correct X-ray images
- A single workstation with installed dicomPACS*DX-R software may be upgraded the following options (selection):
 - Tools for taking images of an entire leg or spine (full leg/ full spine) (image stitching)
 - Planning and working with digital prostheses templates/ operation planning
 - Connection of several diagnostic monitors
 - Capturing additional patient and examination data and their freely configurable statistical evaluation



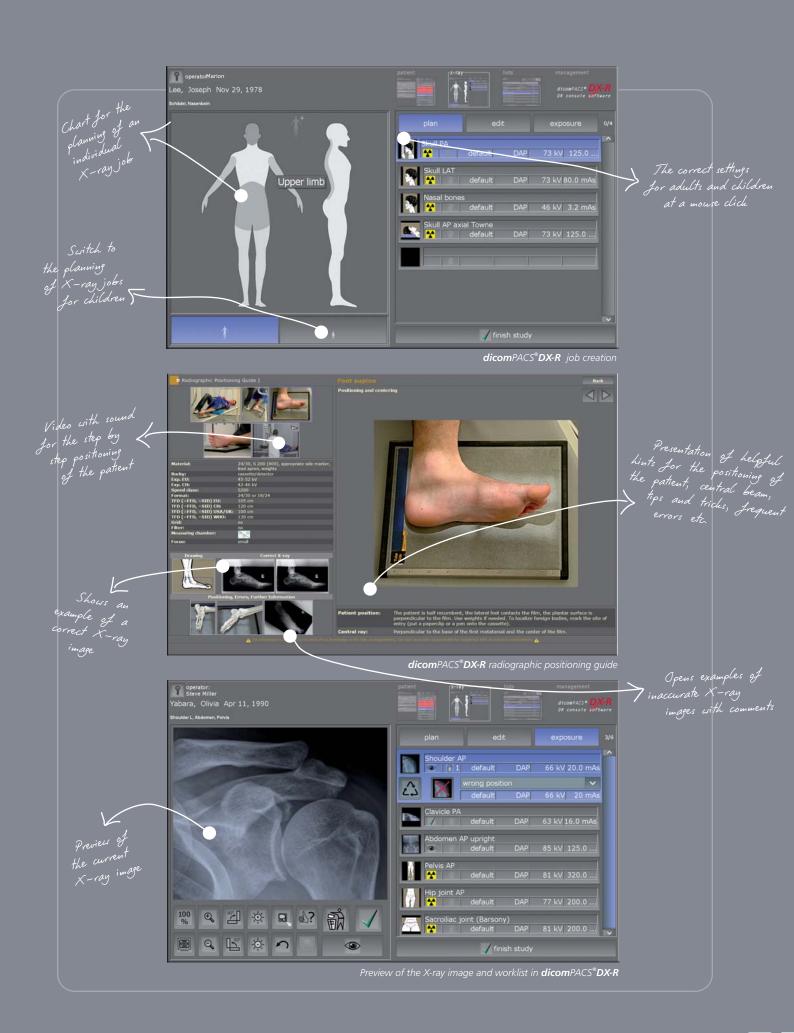


Image processing Automatic image processing for optimal quality

- 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)
- Automatic removal of grid lines when using fixed grids



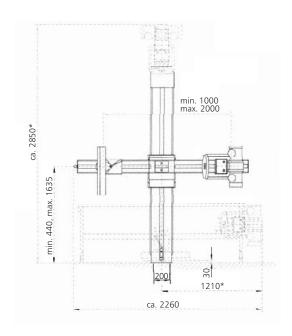
Exposure with standard image processing



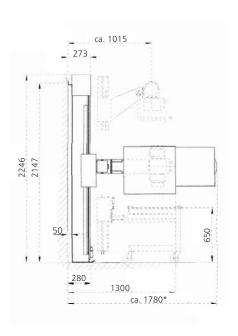
Exposure with dicomPACS®DX-R image processing

Dimensions of the U-arm X-ray stand

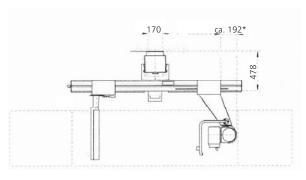
Front



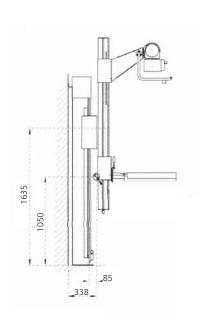
Profile



Top view



Profile



^{*}Dependent of components [dimensions may vary]

Delivery includes The Amadeo S systems includes the following components:

Components	Amadeo S-DR DR system with integrated fixed flat panel	Amadeo S-AX System for film/ CR cassettes without generator control	Amadeo S-DRw System with CR cassettes/ wireless flat panel with generator control
50 KW HF generator	~	~	~
Measuring chamber (AEC field)	~	~	~
U-arm X-ray stand The central beam is permanently centred on the bucky tray Film focus distance can be adjusted from 1.0 m to 2.0 m Central beam ground clearance from 420 mm minimum to 1630 mm maximum. Tube cross arm can be rotated from +135° to – 35° Electromagnetic brakes dampen movements Particularly smooth running and silent		✓	✓
X-ray tube 150 kVp Optical focal spot: 0.6 and 1.2 Anode revolutions: 2 850 rpm Anode angle: 12° Heat capacity: 300 KHU Focal spot: 0.6/ 1.2 mm Peak voltage: 150 kVP	✓	✓	✓
Manual Collimator	~	~	~
Motorised bucky with removable grid	✓	~	✓
Grid for SID 86 to 112 cm	~	~	~
Grid for SID 100 to 180 cm	~	~	~
Flat panel detector 17" x 17" Csl Detector with excellent image quality and immediate image availability	→	-	-
Flat panel detector 14" x 17" wireless Wireless X-ray imaging! Fits into an existing X-ray system without requiring modification (in conformity with the X-ray film cassette), fast charging, long life batteries	-	-	V

Components	Amadeo S-DR	Amadeo S-AX	Amadeo S-DRw
Operation by <i>dicomPACS®DX-R</i> acquisition station Mini PC with 19" touch screen monitor, dicomPACS®DX-R console software with modern graphical user interface including basic software package	✓	-	✓
Operation via PC with generator control software	-	V	-
Optional components to upgrade the Amadeo S sy	/stem:		
DAP meter (Dose Area Product meter)	•	•	•
Upgrade from 50 KW to 65 KW	•	•	•
Upgrade from 50 KW to 80 KW	•	•	•
Motorised collimator without filter exchange	•	•	•
Motorised collimator with filter exchange	•	•	•
LWS/ BWS filter - to replace manual	•	•	•
Patient table I Mobile patient table with power driven height adjustment, Dimensions L/W/H: 2300/ 753/ 580-890 mm Weight: 123 kg Max. patient weight: 225 kg X-ray transparent area: 2296 x 588 mm Attenuation equivalent 100 kv: <0,75 mm AL	•	•	•
Patient table II Light and flexible patient table Rollers are equipped with block brakes Patient load max. 150 kg (300 lbs.) Dimensions L/W/H: 2000/700/760 mm	•	•	•
Patient table Z-Table • Patient table with smoothly mobile floating table top • Rollers are equipped with block brakes • Patient load max. 150 kg (300 lb.s) • Dimensions L/W/H: 2000/660/760 mm, weight: 80 kg (177 lbs.)	•	•	•

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





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 IImaging Solutions

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