





Universal X-ray system with bucky table and wall stand - ideal for small rooms

Today, every radiology practice has to operate efficiently and economically, creating a need for high performance digital systems. The introduction or upgrading of digital technology offers unique opportunities to streamline the workflow in clinics and practices as well as to operate profitably - including perfect image quality.

The **Amadeo R-DR** is a universal X-ray system with bucky table and wall stand. Due to its compact design it can be installed in the most confined spaces. Since it is easy to operate, radiographers can quickly familiarise themselves with the system.

The X-ray tube assembly and the bucky tray of the wall stand can be lowered all the way down to the ground. The large floating table top has a high bearing capacity so that even large patients can be examined without any problem. A shorter table top is available for confined spaces.

The *dicomPACS®DX-R* operating console controls the entire X-ray system: from operating the X-ray generator to the finished superb quality image for diagnostic evaluation. All necessary settings are keyed into a single control panel. In addition, the integrated multimedia X-ray positioning guide offers advice on the correct adjustment technique and the positioning of the patient.

Benefits

Digital X-ray imaging with Amadeo R-DR

Ideal for small rooms

A shorter table top is available for the complete system.

Benefit: The system is fully operational even in very confined spaces.

User friendly design

The **Amadeo R-DR** is the ideal imaging unit for X-ray diagnoses from head to toe. The bucky table and wall stand allow X-ray images to be taken of the skull, thorax, pelvis, skeletal system and extremities of patients in a prone, sitting or standing position.

Benefit: All types of examinations can be covered by the **Amadeo R-DR** system.

Excellent image quality

The standard high-quality direct radiography detector operating on the basis of a caesium-iodite (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.

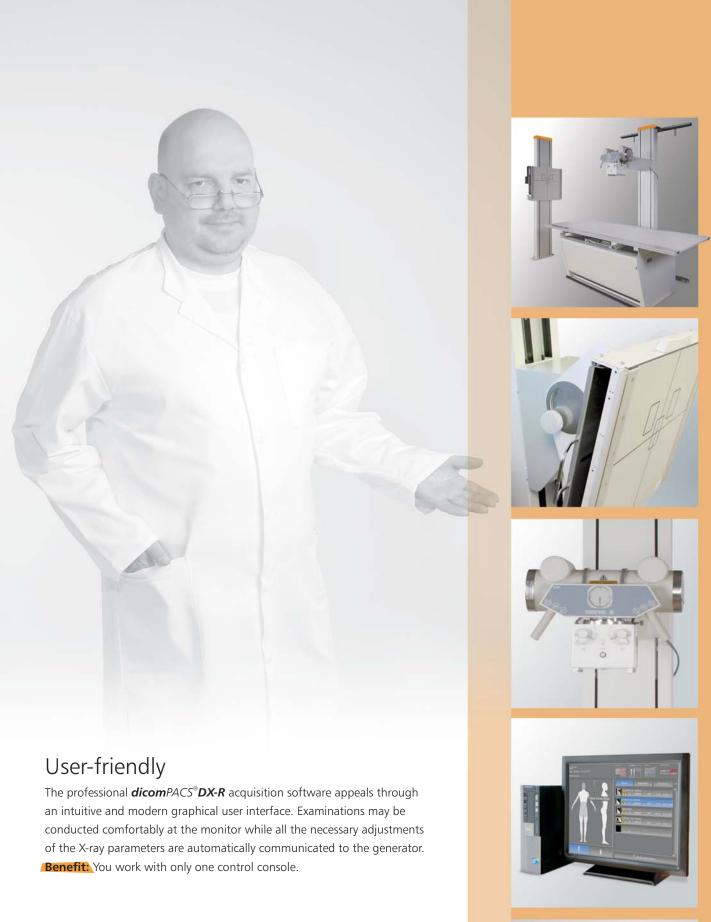
Benefit: Fast work flow with optimal documentation.

Easy to operate

The functional design makes the system easy to operate and allows radiographers to quickly familiarise themselves with the system. The X-ray tube assembly and the bucky tray can be lowered all the way down to the ground.

Benefit: Safe and easy operation





Cleverly designed

By making use of a 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 work station with installed dicomPACS*DX-R software may be upgraded by the following options (selection):
 - Tools for taking images of an entire leg (full spine) or an entire 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



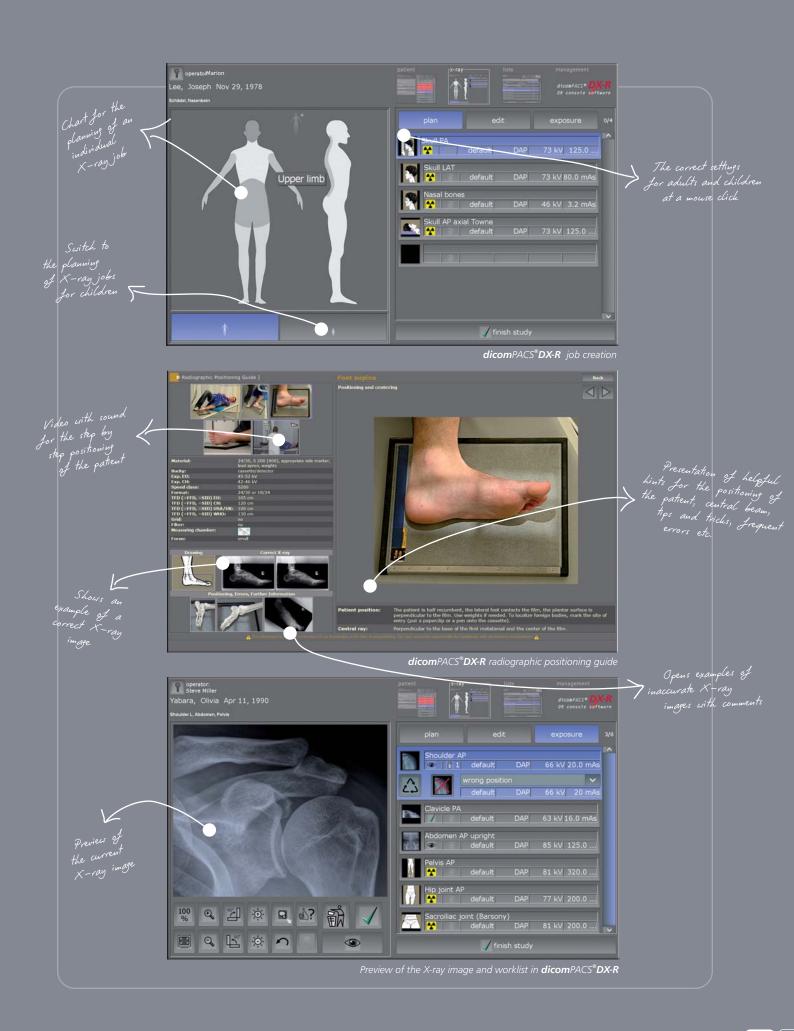


Image processing Automatic image processing for optimal quality

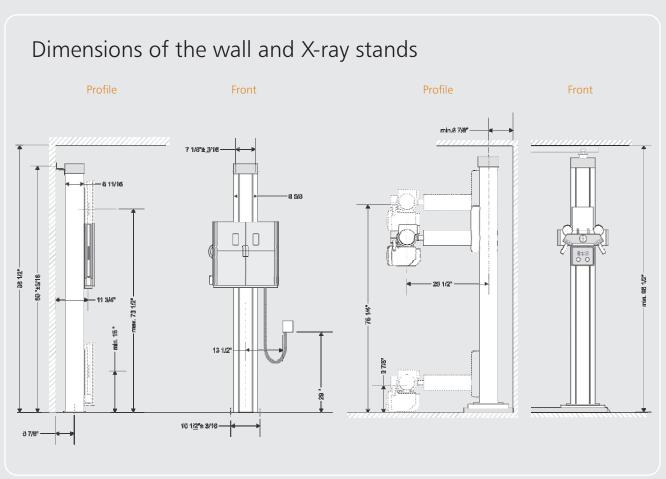
- Perfect images at all times generally **no adjustment** required
- Integrated software for automatic image optimisation
- Professional, adaptable image processing for each individual examination to obtain best possible image settings for the needs of each customer
- Due to specially developed processes, 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

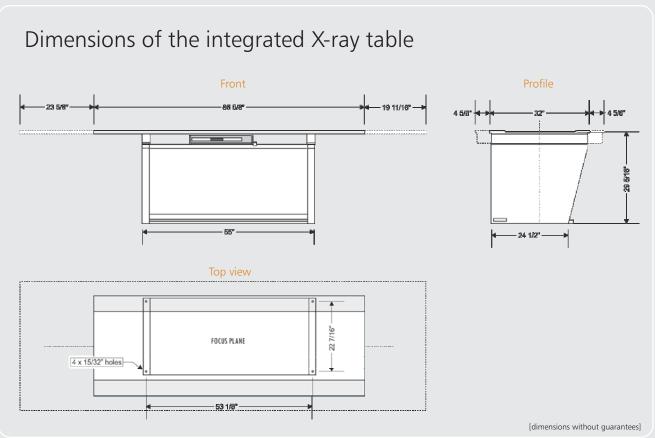


Exposure with standard image processing



Exposure with dicomPACS®DX-R image processing





Delivery includes

Components	Amadeo R-DR DR system with integrated fixed dual flat panel	Amadeo R-AX System for film/ CR cassettes without generator control	Amadeo R-DRw System with CR cassettes/ wireless flat panel with generator control
50 KW HF generator	✓	✓	~
X-ray table 4-way floating table (220 x 81 cm) Movement range: longitudinal 110cm, lateral 24cm Motorised bucky for oscillating grid Oscillating grid for FDD 86 - 112 cm 3-field ionisation chamber (AEC) Bucky can travel across the entire length of the table Two stage electromagnetic locking device with foot control		✓	✓
Wall stand Height adjustment, with counterweight balance, vertical movement range 149 cm Motorised bucky for oscillating grid Oscillating grid for FDD 100 – 180 cm 3-field ionisation chamber (AEC) Choice of electrical or mechanical brakes Easy glide system for effortless vertical positioning		✓	~
Tube stand Mobile stand with command / tube support arm, Smooth motion as a result of counterweight balance Height adjustable with 360° rotation Movement range: longitudinal 195 cm, lateral 162 cm Manually adjustable collimator with halogen Full field light beam localiser Dose area product meter	✓	✓	✓
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 Max. KVP: 150 kVp	✓	✓	✓
2 x Flat panel detector 17" x 17" Csl Detector with excellent image quality and immediate image availability	*	-	-
1 x Flat panel detector 14" x 17" or 17" 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	7 -	-	~

Components	Amadeo R-DR	Amadeo R-AX	Amadeo R-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	Ý	-	~
Operation via PC with generator control software	-	✓	-
Optional components to upgrade the Amadeo	R system:		
DAP meter (Dose Area Product meter)	•	•	•
Upgrade from 50 KW to 65 KW	•	•	•
Upgrade from 50 KW to 80 KW	•	•	•
Wall stand with tilting function	·	•	•
X-ray stand Option ,R' (Rotation	•	•	•
X-ray stand Option ,T' (Transversal)	•	•	•
Motorised collimator without filter change	·	•	•
Motorised collimator with filter change	•	•	•
Manually exchangeable lumbar spine/ thoracic spine filters	5	•	•
Patient positioning table — height adjustable 4-way lifting table for effortless patient positioning Length: 220 x 81 cm, optional: 185 cm Height: min. 55 cm, max. 85 cm Convenient foot pedal control max. patient weight: 230 kg	•	•	•

Portfolio Overview - products of OR Technology



DR retrofits - expanding sets for existing X-ray systems (available for U-arm and wall stand and table systems)





DR suitcases - compact suitcase solutions for mobile and portable X-ray





Complete DR systems - digital X-ray systems incl. stand, table, generator, flat panel etc.





CR solutions - CR systems for digital X-ray with cassettes





Conventional X-ray equipment and accessories the latest technology for conventional X-ray systems





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





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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