Amadeo S
Compakt
U-arm X-ray system for small rooms

Proven X-ray technology in confined spaces for wireless and permanently installed X-ray detectors

The U-arm X-ray system **Amadeo S** is a universal support stand with mobile patient positioning table (optional). The special cross arm and a long vertical travel range allow images to be taken while the patient is standing, sitting or lying down.

The ergonomic handles allow the device to be moved and turned safely with only one hand. With the stand, a maximum central beam height of 170 cm and a minimum of 27 cm above the ground can be approached. The **Amadeo S** can optionally be supplied with a height-adjustable Z-arm for lateral images when the patient is lying down.

The **dicomPACS®DX-R** console provides all functions for operating the X-ray system.

The **Amadeo S** X-ray systems are available in three versions:

- **Amadeo S-DR** with a built-in X-ray detector 17" x 17" (43 cm x 43 cm)
- **Amadeo S-DRw** with a wireless X-ray detector 17" x 14" (35 cm x 43 cm)
- **Amadeo S-AX** for use with film or CR cassettes

System benefits

Optimal: designed especially for small rooms – thanks to special cross arms and the vertical travel area, images can be taken of standing, sitting or lying patients without any problems

Easy: ergonomic handles for safe movement and rotation of the device with only one hand

Convenient: no need to carry cassettes to the imaging plate system – no waiting times at the device

Time saving: no additional effort required for rotating the detector (when using a 43 x 43 cm detector) – no tedious turning for landscape or portrait shots

Efficient: integration into your existing patient management system – patient data at the push of a button

Excellent: high-quality X-ray detector based on a caesium iodide (CsI) scintillator – top image quality even at low X-ray doses

User-friendly: self-explanatory OR Technology acquisition software *dicomPACS®DX-R* including free special measurement functions

Fast: shortly after taking the shot (6 - 8 seconds), the X-ray image is already available for viewing and diagnostic evaluation

Cleverly designed: integrated X-ray positioning guide helps choose the perfect positioning for each examination inclusive helpful photos, videos and correct X-rays images

Accessibility: integrated diagnostic software offers a worldwide, fast and cost-effective exchange of information (via cloud or email)
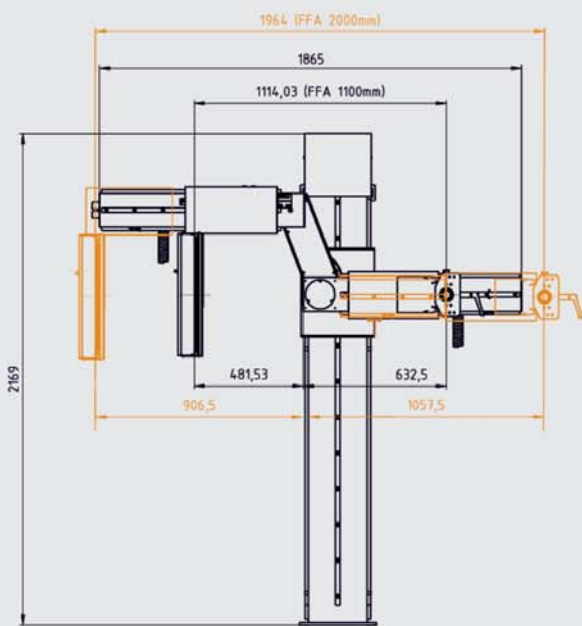
One of a kind: safe and quick registration of emergency patients and user-defined macros for recurring examinations, e.g. thorax screenings
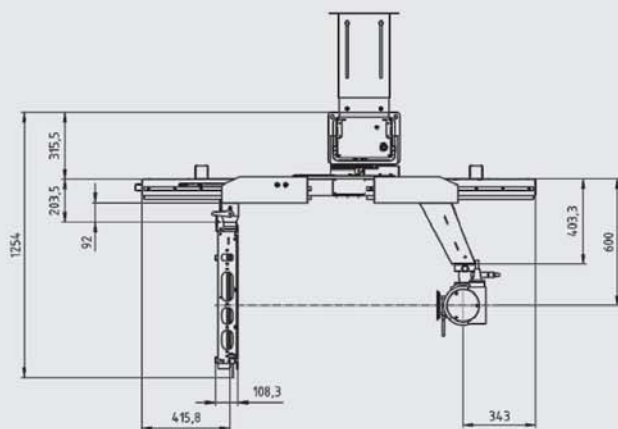
Dimensions Z-arm
system [optional]

The **Amadeo S** version with Z-arm (optional) has a rotating cross arm with the height-adjustable Z-arm. In addition to general radiographs, lateral images of the lying patient as well as weight-bearing radiographs of the knee without a step are possible.
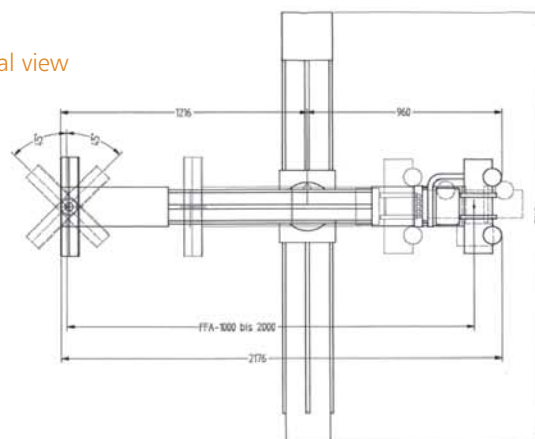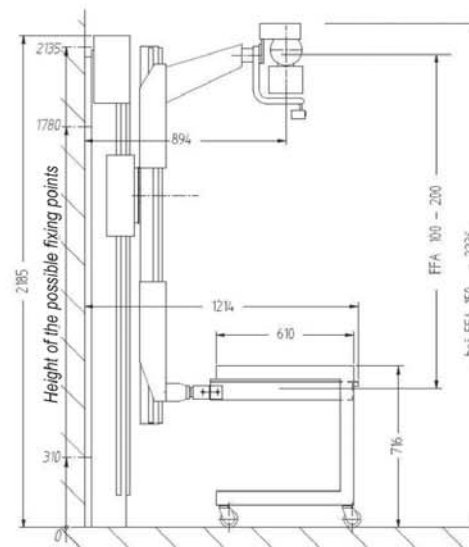
Frontal view

Top view

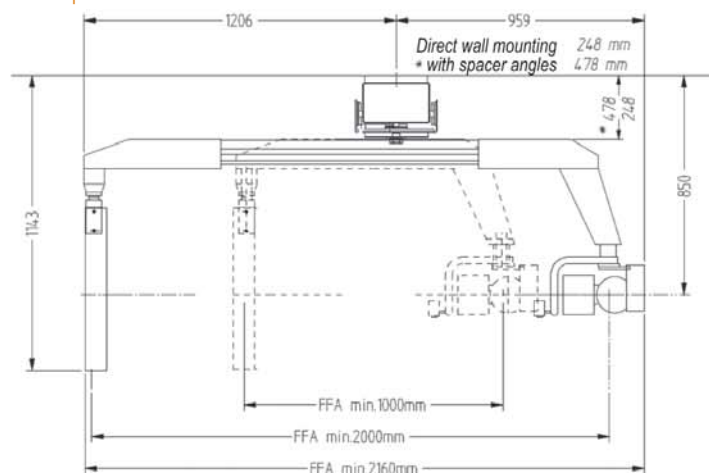# Dimensions standard
system

Frontal view

Profile view

Top view

Advantages of professional acquisition software

- Modern graphical user interface (GUI) adaptable to almost any language, **touchscreen** operation – to ensure quick and efficient work and a smooth workflow

- Capture patient data via **DICOM Worklist, BDT/GDT, HL7** or other protocols – data may also be captured manually

- Use **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 **400 projections** and numerous possible adjustments already included

- Safe and fast **registration of emergency patients** allowing the user to **switch between examinations** of a patient, for instance to avoid having to re-position the patient frequently

- Allows the user to **subsequently add images** to an examination, even after that examination has been completed

- **Multi-generator operation** for alternating between mobile and stationary X-ray systems

- Additional **special functions** including Chiro Tools (diagnostic tools for efficient analyses) and tools that assist with NUCCA examinations

- **User-defined macros for recurring examinations**, e.g. thorax screenings

- Fully **integrated radiographic positioning guide** for each examination incl. comprehensive notes, photos, videos and correct X-ray images

- Option to **control** a digital X-ray system **via wireless remote** incl. display of the worklist, preview of the image taken for checking and much more

Standard components
Amadeo S systems

Component	DR system with integrated fixed flat panel **Amadeo S-DR**	System with CR cassettes / wireless flat panel with generator control **Amadeo S-DRw**	System for film/ CR cassettes without generator control **Amadeo S-AX**
HF generator Output power 50 kW (40 - 150 kVp, 10 - 630 mA, 400/480 V (+/- 10 %))	✓	✓	✓
Universal stand • The central beam is permanently centered on the moving grid • The focus-film distance ranges from 1.2 m to 2.0 m (39.5" to 79") • The central beam over the ground ranges from 270 mm - 1700 mm • Rotation of the swivel arm from + 135° to - 45° • Manually operated collimator with halogen light field indicator • Bucky cabinet with 3-field ionisation chamber (AEC) • Removable grid L (85 L / cm, r 10:1, FFA = 110 - 180 cm)	✓	✓	✓
X-ray tube *Focal spot 0.6 / 1.2 mm*	✓	✓	✓
Flat panel detector 14" x 17" CsI 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*	–	✓	–
Flat panel detector 17" x 17" CsI *Detector with excellent image quality and immediate image availability*	✓	–	–
Manual collimator	✓	✓	✓
Bucky with removeable grid	✓	✓	✓
Grid for FFD 110 to 180 cm	✓	✓	✓
Operation by *dicomPACS®DX-R* acquisition station *Mini PC with 23" touch screen monitor, 1920 x 1080 Pixel inkl. the professional console software **dicomPACS®DX-R** with modern graphic user interface with generator control, integrated X-ray positioning guide and basic software modules:* • *dicomPACS®DX-R DICOM Send SCU* • *dicomPACS®DX-R DICOM Patient CD* • *dicomPACS®DX-R Cognition Optimised Processing*	✓	✓	–
Operator control via generator software	–	–	✓

Optional components

	Amadeo S-DR	Amadeo S-DRw	Amadeo S-AX
• *DAP meter (dose area product meter)* • *LWS / BWS filter* • *Generator upgrade to 65 kW / 80 kW* • *Upgrade X-ray tube Varian RAD-21 or Varian G292 / B-130H* • *Patient tables (various models: partly motorised height adjustment, floating table top, programmable working height etc.)*	✓	✓	✓

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.

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