The console provides all functions for operating the X-ray system. The 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

### 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

Detailed information can be found at [www.or-technology.com](http://www.or-technology.com)
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.

**Dimensions Z-arm system [optional]**

**Dimensions standard system**
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

Detailed information can be found at www.or-technology.com
Standard components

**Amadeo S systems**

<table>
<thead>
<tr>
<th>HF generator</th>
<th>Universal stand</th>
<th>X-ray tube</th>
<th>Flat panel detector 14&quot; x 17&quot; CsI wireless</th>
<th>Flat panel detector 17&quot; x 17&quot; CsI</th>
<th>Manual collimator</th>
<th>Bucky with removable grid</th>
<th>Grid for FFD 110 to 180 cm</th>
<th>Operation by dicom/PACS DX-R acquisition station</th>
<th>Optional components</th>
</tr>
</thead>
</table>
| Output power 50 kW (40 - 150 kVp, 10 - 630 mA, 400/480 V (+/- 10 %)) | • 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) | Focal spot 0.6 / 1.2 mm | 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 | Detector with excellent image quality and immediate image availability |  |  |  | Mini PC with 23" touch screen monitor, 1920 x 1080 Pixel inkl. the professional console software dicom/PACS DX-R with modern graphic user interface with generator control, integrated X-ray positioning guide and basic software modules:  
• dicom/PACS DX-R DICOM Send SCU  
• dicom/PACS DX-R DICOM Patient CD  
• dicom/PACS DX-R Cognition Optimised Processing | • 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.) |

**DR system with integrated fixed flat panel**

<table>
<thead>
<tr>
<th><strong>Amadeo S-DR</strong></th>
<th><strong>Amadeo S-DRw</strong></th>
<th><strong>Amadeo S-AX</strong></th>
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**System with CR cassettes / wireless flat panel with generator control**

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**System for film/ CR cassettes without generator control**

<table>
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