AGFA
RADIOLOGX
SOLUTIONS

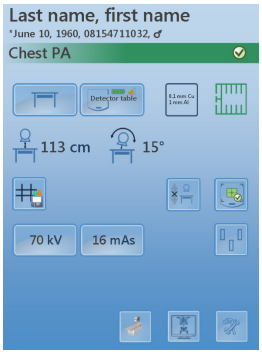
DIRECT RADIOGRAPHY SYSTEM

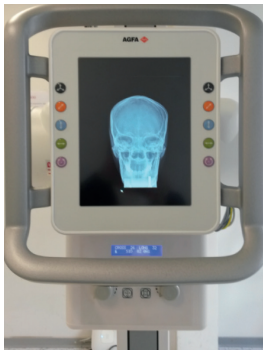
DR 600

High-productivity, top-of-the-line, direct radiography system with motorized auto-positioning.

Datasheet

AGFA





Excellent user-friendly 10 inch tube head display with preview image.

- Leading-edge automation and design in a multi-detector, high-productivity and high-throughput general radiography DR system
- Versatile motorized movement including horizontal and vertical tracking for exceptional ease of operation
- Excellent user friendly tube head display with preview image
- DICOM connectivity to PACS, HIS/RIS
- Excellent contrast detail provided by the next generation MUSICA® image processing producing exam-independent consistent image quality
- Cesium Iodide DR detector technology giving significant patient dose reduction potential

The DR 600 unites excellent automation with Agfa's top-of-the-line image quality to create this high-productivity Direct Radiography (DR) solution. Ceiling-mounted, it comes with a detector in the wall stand and the table. This family of systems, with configurations ranging from a wallstand only to a fully motorized, auto-positioning solution, is ideal for facilities with a high patient load that are looking to streamline workflow and increase throughput. The DR 600 interfaces with the MUSICA® Workstation, for an integrated workflow that communicates seamlessly with PACS, HIS and RIS. Both APR and X-ray parameters, are downloaded onto the soft console in parallel with the tube head display when a patient is selected from the HIS/RIS via the MUSICA® Workstation,

The DR 600 features Cesium Iodide detector technology, which offers excellent image quality and immediate image availability. Agfa's unique latest generation MUSICA® image processing delivers consistency and excellent contrast detail.

Streamlined automation and innovative design

The DR 600 offers the latest in leading-edge automation technology. Productivity is at its highest, with the fully-automated tracking and collimators with DAP and LED lighting. Parameters like the innovative tube head design with touch screen control panel featuring a preview image, the integrated soft console on the MUSICA® monitor, grid sensing for both table and wall stand and solid state AEC for high-speed accuracy make this a premium X-ray room.

Floating table with double click footswitch.

Ultimate ease of operation, in any situation

The versatile ceiling suspended tube crane utilises a touch sensor keypad. This can control all the ceiling support movements, the display of the X-ray parameters and patient details. The fully-motorized table and wall stand buckys have vertical or horizontal tracking with the tube which enables DR Full Leg Full Spine functionality as an option. The radiographic table also supports a heavy patient load.

Configurations to meet every need

The DR 600 system offers DR configurations, with a fixed detector in the wall stand and a cassette-sized detector in the table, or two cassette-sized detectors in the wall stand and the table, or a single detector that can be switched between the wall stand and the table. The fully-automatic system offers motorized vertical tracking on table and wall stand; horizontal tracking for the table, together with auto-positioning; and fixed or portable DR detectors in both the wall stand and the table.

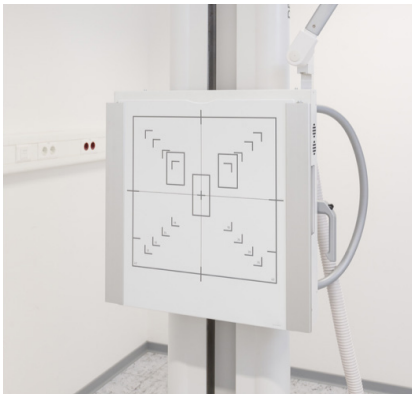
Next generation MUSICA®: tuned for the best results

Agfa's 'gold standard' MUSICA® image processing has been specially adapted and tuned to enhance the excellent DR image quality. Exam-independent, it provides consistent image quality and high contrast detail. And, with the same look-and-feel for MUSICA® image processing, MUSICA® workstation and DR 600, workflow is further improved in the integrated DR radiography room.

Detector technology with dose reduction potential

The DR 600 offers Cesium Iodide technology, for high quality and high productivity. The excellent image quality of the Cesium Iodide offers the potential for significant patient dose reduction, while the immediate availability of images speeds up workflow and reduces patient waiting times.

Tilting wallstand bucky with vertical tracking, holders for patient convenience and collimator light switch.



Technical Specifications

Patient Table

Tabletop width: 81 cm
Tabletop length: 220 cm
Table height (motorized adjustment): 55 to 90 cm
X-ray absorption: < 0.7 mm Al equivalent
Tabletop travel longitudinal: 110 cm (+60 cm, -50 cm)
Tabletop travel transverse: 24 cm (±12 cm)
Tabletop material: Resopal HPL (DIN EN438)
Max. patient weight: 400 kg
Automatic exposure control: 3-field ion chamber

Ceiling mounted X-ray tube support

Ideal room height:
- Standard version: 286 - 303.2 cm
- Lower ceiling version: 279 - 283.5 cm

Tube rotation range around horzontal axis (windmill): from -120° to +120°
Tube rotation range around verticall axis (Carousel): from -180° to +180°

Collimators

Inherent filtration: 2 mm Al equivalent
Full field light localizer: > 160 lx
Additional filtration:
- 1 mm Al + 0.1 mm Cu
- 1 mm Al + 0.2 mm Cu
- 2 mm Al

Rotation: 0° to ±90°, indents at 0° and ±90°

Wallstand

Vertical Movement Range: 33.5 - 179.5 cm (height of detector center over floor)
Tilting bucky, angle of detector: -20° to +90° (horizontal position)
Distance between front panel and detector: 50 mm
Radiation absorption: < 0.7 mm Al equivalent
Automatic exposure control: 3-field ion chamber

System Accessories

Table compression belt
Table hand grips
Table mattress
Lateral cassette holder for table
Lateral arm rest for wallstand
Hand grips for wallstand
Remote Control (for all fully automatic motorized movements)
Camera mounting kit that enables SmartXR 2D and 3D machine vision based features
In-room touch monitor
SmartGrip on tubehead

Ceiling Suspension Rails

DR 600 Longitudinal rails 6 m
DR 600 Longitudinal rails 5.5 m
DR 600 Longitudinal rails 5 m
DR 600 Longitudinal rails 4.5 m
DR 600 Longitudinal rails 4 m
DR 600 Longitudinal rails 3.5 m
DR 600 Bridge 4 m
DR 600 Bridge 3.5 m
DR 600 Bridge 3 m
DR 600 Bridge 2.5 m

Installation data

Line voltage Power Line 400 V Y-source:
- 400 V ~
- 50/60 Hz
- Three-Phase (3PH+N+PE)

Power Line 400/480 V Δ source:
- 400/480 V ~ (Selectable by service personal)
- 50/60 Hz
- Three-Phase (3PH+PE)

Environmental Requirements

Operation

Temperature: +10 ~ +35° C
Humidity: 30 ~ 75% Rh (non condensing)
Atmospheric pressure: 700 ~ 1060 hPa
Max altitude: 3000 m

Weights

Generator (incl Storage Cabinet): 121 kg
Carriage: max. 257 kg
2 Longitudinal rails (6m): 133.2 kg
Bridge or Transversal rails (4m): 129.5 kg
Table (incl. bucky and accessories, without detector): 364 kg
Wallstand assembly (incl bucky, accesories, extension and detector): 260 kg

Generators

Generator model	EDITOR HFe 501	EDITOR HFe 601	EDITOR HFe 801
Max. Power	50 kW	65 kW	80 kW
Power Output (at 0.1s)	625 mA: 80 kVp 500 mA: 100 kVp 400 mA: 125 kVp 330 mA: 150 kVp	800 mA: 80 kVp 650 mA: 100 kVp 520 mA: 125 kVp 430 mA: 150 kVp	800 mA: 80 kVp 800 mA: 100 kVp 640 mA: 125 kVp 530 mA: 150 kVp
kV-Range for exposure in increments of or in kV Accuracy	40-150 kV	40-150 kV	40-150 kV
	1 kV 27 steps ±(5%+1 kV)		
mAs-Range	0.5-600 mAs 32 steps	0.5-600 mAs 32 steps	0.5-600 mAs 32 steps
Power Line 400V Y-source	400 V ~ 50/60 Hz Three-Phase (3PH+N+PE)		
Power Line 400/480V Δ source	400/480 V ~ 50/60 Hz Three-Phase (3PH+PE)		
Dimensions (W x D x H)	90 cm x 43 cm x 31 cm		
Max. Input current (0.2 s) 400 V	113 A	144 A	180 A
Max. Input current (0.2 s) 480 V	97 A	124 A	154 A

X-ray Tube

Type	E7252X	E7254FX	E7869XX
Speed	HS	HS	HS
Nominal X-ray Tube Voltage (IEC60613:2010) Radiographic	150 kV	150 kV	150 kV
Nominal Anode Input Power large/small Focus at 0.1 s 180 Hz	75/27 kW	102/40 kW	100/40 kW
Nominal Focal Spot Value large/small Focus	1.2/0.6	1.2/0.6	1.2/0.6
Target Anode Angle	12 degrees	12 degrees	12 degrees
Construction	Rhenium-Tungsten-faced Molybdenum	Rhenium-Tungsten-faced Molybdenum	Rhenium-Tungsten-faced Molybdenum
Anode Heat Content	210 kJ (300 kHU)	285 kJ (400 kHU)	420 kJ (600 kHU)

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