



AGFA 
RADIOLOGY

DIRECT RADIOGRAPHY SYSTEM

DR 800

Dynamic, multi-purpose direct radiography solution offering
real time fluoroscopy and general radiography imaging.

- > Single touch, remote-controlled user-interface and VarioDrive auto-positioning, improving workflow and maximizing patient comfort
- > Integrated patient-side positioning controls, and optional table top or wireless in-room console to support the most demanding workflows
- > Wide range of general radiography and portable applications, including fluoroscopy, rapid sequence examinations (incl. DSA) and portable applications, such as wheelchair, stretcher and optional full leg/full spine exams
- > Easy patient access, for a high level of productivity and flexibility

The DR 800, part of Agfa's family of Direct Radiography (DR) solutions, provides enhanced flexibility in diagnostics through its direct digital dynamic remote-controlled fluoroscopy and radiography system. Using an advanced Flat Panel Detector (FPD), it provides optimal versatility and flexibility.

Its many features improve both workflow and patient comfort, including LiveVision video camera technology to assist patient positioning, a Source Image Distance (SID) of up to 180 cm - critical for thorax imaging - and optional full leg/full spine automated imaging. At the same time, it offers the high quality images and productivity gains expected from all of Agfa's DR range - with immediate image availability.

Versatility, across the range of applications

With its latest generation Flat Panel Detector (FPD), the DR 800 can handle a very wide range of both radiographic and fluoroscopic examinations, and provide images immediately. The fluoroscopy applications include gastrointestinal examinations, urogenital work and angiography, while the broad range of radiography applications includes skull, thorax, abdomen, spine and pelvis. Advanced clinical applications such as full leg/full spine examinations, large field/low dose tomosynthesis and digital subtraction angiography (DSA) with roadmapping are also available.

At the same time, an additional wireless detector can be connected for direct exposure exams, for example on a stretcher or bed. This makes it ideal for pediatric, extremity and lateral images, as well as for use with patients with reduced mobility. The system can further be expanded with an overhead ceiling tube and wallstand, offering a room that can cover all imaging needs.

Ease of use and fast workflow enhance productivity

This versatile, real-time imaging solution accelerates workflow by reducing examination preparation time. The single-touch intuitive user-interface and positioning console are available both remotely and, on the patient-side which allows control of all table movements, collimation, spectral filtration settings, and digital acquisition parameters where needed, offering user-friendly operation and a smooth workflow. By enabling a greater number of patients to be seen in the same amount of time, it further enhances productivity.

Optimizing patient comfort

The DR 800 has also been designed to provide optimal comfort for the patient. Its table movements allow an easy access, even for patients with reduced mobility. The LiveVision video camera for dose-free patient positioning, and the smooth but swift VarioDrive movements for manual and auto-positioning both contribute to a quick and easy procedure for the patient. The predetermined filters and auto collimation for each protocol allow a potential dose reduction, while MUSICA® Technology maintains optimal image quality.



Technical Specifications

HIGH FREQUENCY GENERATOR

Nominal output: 80/65/50 kW

Current range: 1000/800/630 mA

Maximum generator frequency: 400 kHz

Voltage range: 40 kV to 150 kV

Maximum power line impedance: 0.17 Ohm

Operating modes:

- 3 points (kV, mA, ms)
- 2 points (kV, mAs)
- 1 point (kV, AEC)

Exposure modes:

- GenRad: static imaging
- Fluoroscopy: pulsed or continuous dynamic imaging
- Rapid sequence: pulsed dynamic imaging with AEC dose control

X-RAY TUBE

Tube specification

Nominal focal spot values:

- 0.6/1.2 mm (600 kHU tube)
- 0.6/1.2 mm (1000 kHU tube)

Anode rotation speed: 3000/10000 rpm

Nominal anode input power:

- 43 and 100 kW @ 10000 rpm (600 kHU tube)
- 40 and 80 kW @ 10000 rpm (1000 kHU tube)

Anode diameter:

- 102 mm (600 kHU tube)
- 110 mm (1000 kHU tube)

Anode material: Rhenium - Tungsten - Molybdenum

Anode angle: 13°

X-ray coverage at 1 m: 45 x 45 cm

Inherent filtration: 0.7 mm Al eq

Radiation protection: complies with IEC-60 613 standard

Anode heat storage capacity:

option for 600 kHU or 1120 kHU

Maximum heat dissipation:

- 1500 W (600 kHU tube)
- 2000 W (1000 kHU tube)

REMOTE CONTROLLED TABLE

Tabletop

Tabletop dimensions:

- (standard table) 2400 x 800 mm
- (short table) 2100 x 800 mm

Ground to tabletop distance: 500 to 1000 mm

Radiation attenuation: <0.5 mm Al eq.

Lateral movement: VarioDrive up to 5 cm/s

Lateral movement range: 35 cm

Longitudinal movement: motorized at 5 cm/s

Longitudinal movement range:

- (standard table) + 80 to -80 cm or +100 to -20 cm
- (short table) + 80 to -80 cm

Software provides anti-collision safety

Tilting

Table tilt range: +90° to /-90° ± 0.5°

Tilting speeds:

- Standard table: from 4.7°/s to 5.3°/s
- Short table: from 5.4°/s to 56.2°/s

Lifting

Motorized variable height: 50 to 100 cm

Anti-collision safety:

- Software controlled
- Photo-cell sensor (optional)

Technical Specifications

Patient support

The flat tabletop (standard), 240 x 80 cm with rail as accessory, has a large width for convenient positioning and centering, especially for bariatric patients. It has low x-ray absorption and optional carbon or curved tabletop

Maximum allowed patient's weight on the table:

- 320 kg (with constraints)
- 266 kg (without constraints)

Maximum allowed patient's weight on the foot rest: 266 kg

Column

Longitudinal travel range:

- (standard table) 154 cm or 138 cm with tabletop longitudinal movement
- (short table) 124 cm or 108 cm with tabletop longitudinal movement

Longitudinal travel speed: VarioDrive at max 20 cm/s (remote)

Motorized collimator:

- Operating modes: Manual, remote-controlled or automatic
- Collimator rotation around beam axis (optional): -90 to 120
- Motorized filters: 1 mm Al + 0,1 mm Cu / 1 mm Al + 0,2 mm Cu / 2 mm Al
- LiveVision integrated webcam for patient monitoring, dose-free positioning and swift full leg full spine workflows (optional)

DAP Measuring system

Motorized source-image distance: 115 to 180 cm

Tube assembly rotation: 270°

Tube assembly rotation indents 0°:

±18°, ±36°, ±54°, ±72°, ±90°, ±180°

Possible to make exposures on the stretcher, with the table in the vertical position, or on the wallstand bucky depending on the configuration

Motorized angulations: ±40° (10°/s maximum)

Motorized compression cone: generating max. 200N pressure (optional)

OPERATOR CONTROLS

Centralized MUSICA® Acquisition Workstation touch based interface for an integrated workflow, including worklist management, exam setup, image visualization, post processing, status notifications and GenRad/Dynamic exposure controls; accessible on remote and in-room displays (optional)

Fixed remote console with full VarioDrive positioning, collimator and compression controls

Foot controlled and manual exposure switch

In-room foot controlled dual exposure switch

In-room wireless footswitch

In-room single or dual display trolley (optional)

Choice of clinical review, touch and diagnostic monitors (up to 5)

Ceiling mounted displays on fixed pivot or track (optional)

Optional table-side table mini-console for elbow controlled table top movement

Optional wireless in-room console replicating the fixed console

LARGE FIELD FLAT PANEL DETECTOR

Pixel matrix: 2880 x 2880 pixels

Useful sensitive matrix: 2840 x 2874 pixels with 148 µm pixel size for a 17 x 17" image

Resolution: 3.4 lp/mm, 16 bits ADC

Frame rate: up to 40 fps

Acquisition modes:

- GenRad: Static, AEC controlled exposure; MUSICA® image processing
- Fluoroscopy: Dynamic, Automatic Brightness Control System controlled exposure; MUSICA® Dynamic processing
- Rapid sequence: Dynamic AEC controlled exposure, MUSICA® processing

DETECTOR HOLDER

RaySense automatic scatter-grid selection prevents retakes and tedious grid handling action (optional)

AEC: 3 cells, solid state

RADIOPROTECTION ACCESSORIES

For patient-side usage the system can be supplemented with:

- Ceiling mounted transparent lead acrylic protective shield on fixed pivot or track
- Height adjustable transparent lead acrylic mobile shield

SYSTEM ACCESSORIES AND OPTIONS

Ceiling Suspension

Longitudinal rails length: 440 cm

Transversal bridge rail length: 300 cm

Movement:

- Longitudinal range: 326 cm
- Transversal range: 202 cm

X-ray tube rotation (vertical axis): between -135° and 200°

X-ray tube angle (horizontal axis): between -190° and 150°

Wallstand

Tilting or non-tilting

Column height: 230 cm

Vertical movement range:

- Vertical bucky: 67 cm to 157 cm
- Tilting bucky: 72 cm to 140 cm

Angle bucky (tilting bucky): -20° to +90°

Movement controls: manual movement, balanced by counterweights and with mechanical brakes

X-ray absorption: 0.6 mm Al equivalent

Alternative wallstand*

Height: 224.5 cm (88.39")

Width: 65.1 cm (25.63")

Min and max height detector center:

33.5 cm (13.1") to 185 cm (72.8")

Vertical movement range: 152 cm (59.84")

Angle bucky (tilting bucky): -20° to +90°

X-ray absorption (front panel attenuation, excluding the AEC): < 0.7 mm Al equivalent

Table accessories and Options

Lateral holder for portable detector

Shoulder braces

Pediatric cradle

Head stabilizer

Patient footrest

Handgrips

Shoulder rests

Compression belt

Lower limbs support, ankle support

Lateral arm rest on the table

Joystick console

Concave tabletop

Wireless DR detectors

For direct exposure exams or wallstand

EasyStitch Full Leg Full Spine imaging

Orthopedic-grade long view imaging and advanced measurement schemes

Large field/low dose tomosynthesis

High performance iterative reconstruction algorithm for synthesis of large field tomographic sections at low patient dose

Digital Subtraction Angiography (DSA)

Rapid sequence exposure, with mask imaging subtraction for clear visualization of blood vessels enhanced by contrast media without the interference of bones or dense soft tissues in the environment

Roadmapping and overlay with DSA

GENERAL

Electrical characteristics

Electrical connections: 230 V +/-10 %; 20 A (table);

3 Phase 400 - 480 (generator)

Power requirements: 5 kW (table); 50 kW/65 kW/80 kW (generator)

Nominal power: 1000 W

Idle power: 500 W (table); 22 W (generator)

* Not available in Brazil and the USA when an OSHPD certified solution is requested.



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