

DR 100s

High-productivity mobile DR
with wireless detector

- Increased productivity, for lower cost per exam
- Excellent image quality, for improved diagnostic confidence
- Dose reduction potential, including pediatric and neonatal environments¹
- Outstanding patient and operator comfort

With its excellent ergonomics and ease of movement, combined with high-quality, fast DR imaging, the mobile DR 100s offers patients and staff exceptional comfort, for greater productivity and satisfaction.



Features

- Easy to operate and position precisely and safely, with wireless portable DR detector and motorized control
- Better maneuverability while driving, with FreeView telescopic column
- Flexible FreeRotation of tube head in all 3 axes for precision positioning
- Extra-large (22-inch), widescreen touch monitor, for better image preview
- 10-inch tubehead display, for bedside adjustments from the tube head
- MUSICA™ Nerve Center, for an efficient workflow (including fast assessment of images after exposure) and excellent connectivity to PACS, RIS, HIS and imagers
- MUSICA image processing, for excellent contrast detail and exam-independent, consistent image quality
- High, effective generator power, for short exposure times and sharp images
- Anti-theft mechanism locking both detectors and remote control.

¹ Testing with board-certified radiologists has determined that Cesium Bromide (CR) and Cesium Iodide (DR) detectors, when used with MUSICA image processing, can provide dose reductions between 50 to 60%, compared to traditional Barium Fluoro Bromide CR systems. Contact Agfa for more details.

DR 100s

Bedside imaging has become a key part of ensuring all patients get the care they need, even if they lack the mobility to move to the X-ray room or to position themselves for optimal imaging. Agfa's mobile, motorized DR 100s direct radiography (DR) unit makes bedside imaging extremely comfortable and convenient, for patients and staff alike.

The DR 100s offers easy maneuverability, operation and image preview, thereby enhancing productivity. The powerful 40 kW generator, detector and image processing provide excellent image quality, for a broad range of general radiography X-ray studies. Combining the excellent ergonomics with fast imaging and validation increases diagnostic confidence while lowering cost per exam.

Compact yet highly effective, the DR 100s offers more features, while taking up minimal space.



Powerful imaging, on the go

Measuring only 58 cm/22.8 inches wide, the DR 100s moves easily through the narrowest corridors. The FreeView telescopic column increases visibility on the go, while the unit's light weight and height-adjustable driving handle make maneuvering practically effortless, even around the limited bedside space.

Ergonomic positioning, fast image preview

The FreeRotation of the tube head releases all three axes with just the press of a button, for excellent freedom of positioning, while the collimator rotation can be done during the same rotation of the tube head.

In addition to the extra-large 22-inch touch monitor, the DR 100s includes a 10-inch touchscreen on the tube head, which provides convenient access to information on patient data and generator settings, and an image preview.

Positioning is faster and easier than ever, and images can be verified right away to be sure no retakes are required.

MUSICA Nerve Center: intelligent acquisition workflow

The DR 100s comes standard with the MUSICA Workstation, the true nerve center of the DR 100s. The MUSICA Workstation offers a broad range of features and tools, including a touch-enabled intuitive interface, fast previews and a vast number of exam presets. The monitor's viewing angle can be adjusted as necessary, to eliminate glare and light reflection.

Once the operator selects a specific type of exam, the appropriate X-ray settings are automatically transferred to the X-ray generator, and displayed on the touchscreen console and tubehead display, where they can be adjusted if necessary.

The MUSICA Nerve Center adds the exposure parameters used to the digital image file, and communicates the data seamlessly with PACS, HIS and RIS, eliminating manual data entry and typographical errors. With WIFI access, this can be done at the patient bedside increasing exam efficiency and speeding up access to images for diagnosis and clinical review.

MUSICA image processing: first-time right imaging

The 'gold standard', intelligent MUSICA image processing has been specially adapted and tuned to further enhance the excellent DR image quality of the DR 100s. Exam-independent, it provides consistent image quality and high contrast detail. Time after time, the excellent image quality when using CSI detector technology also gives the potential for significant dose reduction without the need for manual adjustments.

User-driven design

The DR 100s includes a range of additional features to ensure optimal ease of use and productivity:

- An RFID reader turns the unit on and automatically logs the user into the MUSICA Nerve Center; switching users requires just the swipe of a card. (optional)
- The power plug is positioned at a convenient 75 cm above the floor.
- Storage bins offer (optional) space for a detector battery charger, and small and large detectors and grids, as well as an anti-theft lock for the detector and remote control.
- Storage for sanitizer wipes, gloves and hand sanitizer is integrated into the cover.
- Collimation and Al and Cu filters are motorized, or can be set via the exam tree (filters can also be set via the tubehead display).
- The DAP meter is built into the collimator, for convenient cleaning and disinfection.



Technical Specifications

DETECTOR FAMILY²

- Detector type: Amorphous Silicon Detector
- (a-Si)
- Conversion screen: CsI or GOS

X-RAY GENERATOR

- kW: 32 kW, 40 kW
- kVp range²: 40 – 150 kVp
- mA range²: 70 – 400 mA selectable
- Exposure time range: 0.001 – 10 sec
- mAs range²: 0.1 – 500 mAs

TUBE ARM/STAND

- Counterbalanced tube arm
- Tube arm reach: 1110 mm (49.2")
- Column rotation: $\pm 320^\circ$
- Maximal SID to floor: 2051 mm (80.7")
- Minimal SID to floor: 675 mm (21.6")

MOBILE UNIT

- Weight:
 - Unit with telescopic column: 470 kg (1036 lbs)
 - Standard column: 475 kg (1047 lbs)
- Size (L x W x H)
 - Unit with telescopic column: 1290 x 576 x 1364 mm (52.75")
 - Standard column: 1290 x 576 x 1850 mm (53.54 x 26.4 x 77.9")
- Height driving handle: 940-960mm
- Touch screen monitor: 430 mm (21.8") diagonal
- Touch screen monitor on tubehead (optional): 256.5 mm (10.1") diagonal
- Anti-collision system: Frontal
- Motorized unit: Up to 5 km/h
- Line requirements: Standard grounded outlet
- 110 or 230 Vac ($\pm 10\%$)
- Max. input power: 1.8 kVA
- Motor Drive (Standard): 2 independent drive motors, one for each wheel (forward and reverse)
- Battery powered via Crystal lead batteries with separate indications for available power for driving and imaging
- Collimator: Automatic collimator (only on 40kW system) or Manual collimator Depending on generator model

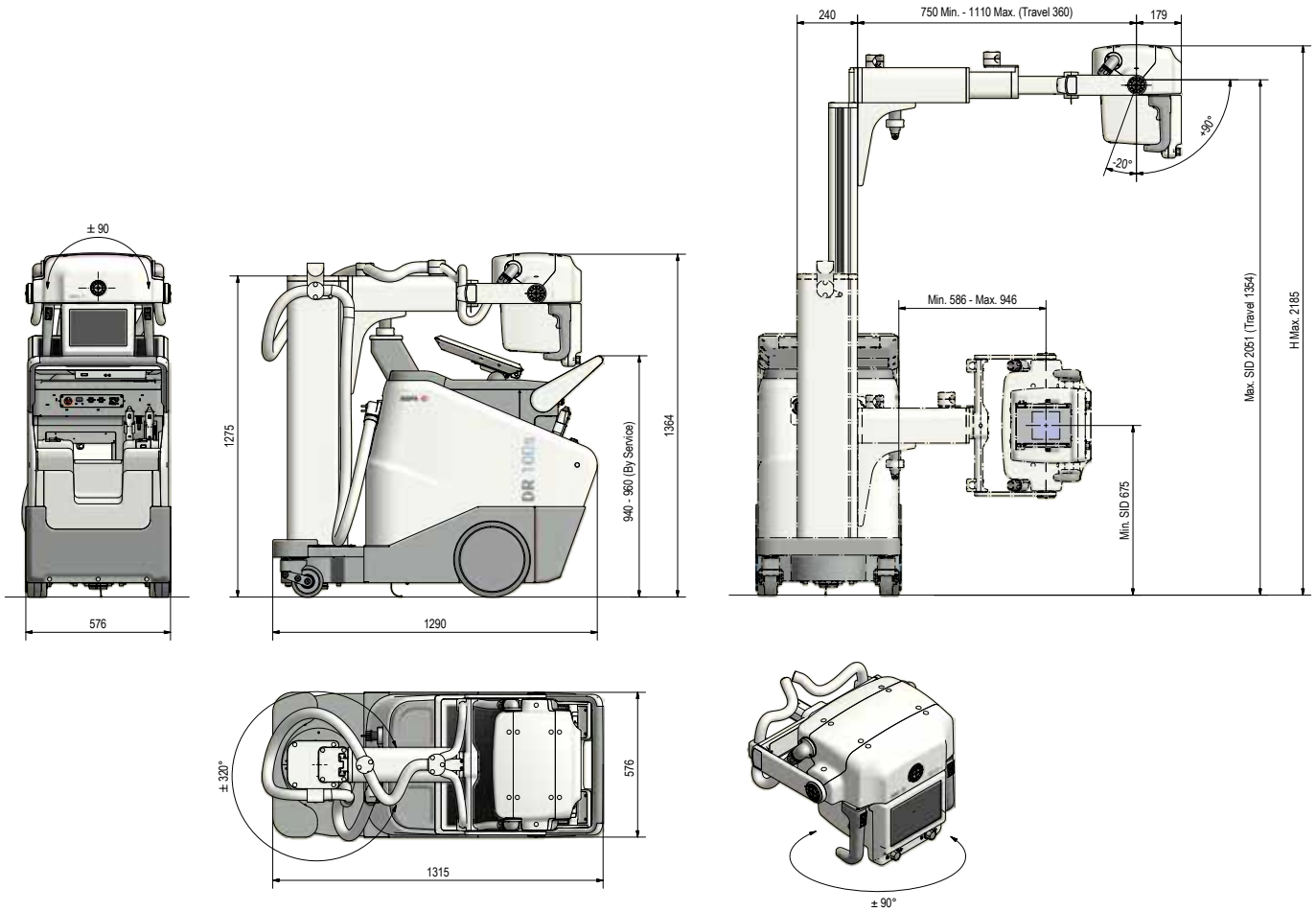
OPTIONS

- Telescopic column height: 1364 mm (52.75")
- Bluetooth remote control
- Dose Area Product Meter
- Locking mechanism for detectors
- Additional filtration (manual or motorized, depending on collimator type)
- Tubehead display (only on 40kW system)
- Anti-scatter grid with handle
- Collimator with double laser for optical SID
- Integrated charger for detector batteries
- Numeric keypad or RFID reader to switch on the unit

X-RAY TUBES	32kW unit	40kW unit
Nominal voltage	125 kV	150 kV
Nominal focus spot value	0.6 mm/ 1.3 mm	0.6 mm/ 1.2 mm
Nominal power small focus	11 kW	17 kW
Nominal power large focus	32 kW	43 kW
Anode target angle	15°	12.5°
Anode diameter	64 mm	73 mm
Anode heat content	80 kJ (107 kHU)	225 kJ (300 kHU)
Anode rotation speed	Minimum 3000 min-1	Minimum 3000 min-1

² More technical details can be found in the individual detector datasheets

DR 100s



Services & Support

Agfa offers service agreement solutions tailored to the individual customer's situation. The service agreements are available in Basic, Comfort and Advanced levels, making lifecycle costs predictable. A worldwide team of some 1000 service professionals is at your disposal to provide support at all phases of your project.

As an additional service, they can help you customize your examination tree or link RIS protocol codes, for an even higher return on investment. Furthermore, this team carries out tasks that go well beyond maintenance, including value added services such as staff and super user training, and software upgrades.

For more information on Agfa, please visit our website on www.agfa.com ■

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