Patients who most need imaging exams may lack the mobility necessary to move to the X-ray room or to position themselves properly for optimum imaging. This is where Agfa HealthCare’s mobile DX-D 100 comes into its own. Designed for mobile use, DX-D 100 can handle a broad range of general radiography X-ray studies, even for the least mobile patients. The very short exposure time means images are available immediately and can be validated straight away after exposure. The higher productivity and image quality translate into lower cost per exam and higher diagnostic efficiency.

What’s more, the higher image quality also means potential dose reduction for patients and operators. With superb handling capabilities it reduces patient waiting times and increases diagnostic confidence. The DX-D 100 further answers the need for constant enhancement of patient comfort and performance of your radiology department.

On the go: easy handling for radiology exams

The DX-D 100 has been designed to offer full mobility combined with excellent image quality, using a DX-D 20 portable DR detector. The large servo driven wheels and small width of the unit ensure effortless handling of the DX-D 100 around the patient, even in very small areas.

WITH ITS EXCELLENT IMAGE QUALITY AND HANDLING, THE MOBILE DX-D 100 OFFERS FAST IMAGING THAT CAN BE VALIDATED IMMEDIATELY.

• Fast assessment of images after exposure
• Improved patient comfort
• Increased productivity, for lower cost per exam
• Higher image quality, for improved diagnostic effectiveness
• Dose reduction potential for all users, in particular in pediatric and neonatal environments
• Easy to operate and position both precisely and safely, with portable DR detector and motorized control
• MUSICA² processing for superior contrast detail and exam-independent, consistent image quality
• Superior connectivity to PACS, HIS/RIS and imagers
• High effective generator power, for shorter exposure times and sharper images
• Efficient battery capacity due to separate battery packs for driving and imaging
View images immediately after exposure

Thanks to the very fast preview times, images can be viewed immediately. Therefore you can verify right away that no retake is necessary, without moving the patient or the DX-D 100. But you don’t have to trade quality for speed and portability: 139 micron pixels give you the high resolution of a full-size a-Si detector, at the patient’s bedside.

MUSICA²: tuned for the best results

The ‘gold standard’ MUSICA² image processing has been specially adapted and tuned to further enhance the excellent DR image quality. Exam-independent, it ensures consistent image quality and high contrast detail. The superior image quality also gives the potential for significant dose reduction, especially important in pediatrics and neonatal.

The intuitive NX workstation: a more efficient workflow

The DX-D 100 has an integrated NX workstation, for an optimal workflow. When a specific type of exam is selected, the appropriate X-ray settings are automatically transferred to the X-ray generator and displayed on the touch-screen console. NX adds the exposure parameters used to the digital image file, and communicates seamlessly with PACS, HIS and RIS, eliminating manual data entry and typographical errors.

A quick and easy way to go Direct Digital!

With the DX-D 100, you can enjoy the productivity benefits of Direct Digital, including a lower cost per exam. The immediate image acquisition permits a faster exam time, with improved operator productivity and patient comfort. Patients also benefit from shorter waiting times, higher diagnostic confidence and lower doses.
## Technical Specifications

### X-ray generator
- **kW**: 40 kW
- **kVp range**: 40 to 150 kVp
- **mA range**: 10-500 mA Selectable
- **Exposure time range**: 0.001 - 10 sec.
- **mAs range**: 0.1 - 500 mAs
- **Line requirements**: Standard grounded outlet 100 - 240 Vac (+/-10%)

### X-ray tube
- **Focal spots**: 0.6 mm / 1.2 mm
- **Anode kHU / kVp**: 300 kHU / 150 kVp
- **Target angle**: 12°

### Tube arm/stand
- **Counterbalanced tube arm**
- **Tube arm reach**: 1250 mm / 49.2 inch
- **Column rotation**: +/- 315°
- **Maximal SID to floor**: 2050 mm / 80.7 inch
- **Minimal SID to floor**: 550 mm / 21.6 inch

### Mobile unit
- **Weight**: 550 kg (1,210 lbs)
- **Size (L x W x H)**: 1,360 x 670 x 1,980 mm (53.54 x 26.4 x 77.9 inch)
- **Touch screen console**: 15 inch
- **Anti-collision system**: Frontal and Lateral
- **Motorized unit**: Up to 4 km/h

### Motor Drive (Standard)
- Two (2) independent drive motors, one for each wheel (forward and reverse)

### Battery systems
- Two (2) independent systems for driving and imaging

### Collimator
- Manual collimator with SID meter

### Portable DX-D 20 detector
- **Receptor type**: Amorphous Silicon Detector (a-Si)
- **Conversion screen**: CsI or GOS
- **Pixel area**: 42.7 cm x 35.6 cm
- **Pixel matrix**: 7.8 Million Pixels (3,072 x 2,560)
- **Pixel pitch**: 139 micro
- **Detector size**: 49.2 cm x 47.5 cm x 2.3 cm
- **Detector weight**: 4.9 kg

### Options
- IR remote control
- Dose Area Product Meter
Why Agfa HealthCare?

Agfa HealthCare is a global leader in the fast growing market of integrated IT and imaging systems, offering healthcare facilities a seamless flow of information and a 360° view of patient care. The company has a unique, holistic approach, enabling it to provide in-depth clinical know-how and fully integrated hospital-wide solutions. These specialized solutions integrate IT and imaging systems for Radiology, Cardiology, Mammography and Orthopedics. Agfa HealthCare’s enterprise-wide IT platform integrates all administrative and clinical data within a healthcare facility and is designed to match the unique needs of specific healthcare professionals.

www.agfahealthcare.com