



**AGFA**   
**RADIOLOGY**

# DR 100e

with wireless detector family



- > Wireless detector for improved flexibility and infection control
- > Fast assessment of images after exposure
- > Improved patient and operator comfort
- > Increased productivity, for lower cost per exam
- > Higher image quality, for improved diagnostic confidence
- > Dose reduction potential, including pediatric and neonatal environments
- > MUSICA® processing for excellent contrast detail and exam-independent, consistent image quality
- > Excellent connectivity to PACS, HIS/RIS and imagers
- > High, effective generator power, for shorter exposure times and sharper images

With its powerful generator power, compact size and flexible handling, the DR 100e offers clinics and hospitals a cost-effective, high quality X-ray solution that maximizes patient comfort and performance.

Not all patients who need imaging exams have the mobility to move to the X-ray room or to position themselves properly for optimum imaging. With the compact, wheeled DR 100e, every hospital, whatever its budget, can take imaging to the patient – instead of the other way around!

The DR 100e can handle a broad range of general radiography X-ray studies, using wireless detectors. The compact unit fits down narrow corridors and in small spaces, making it ideal for the ICU or bedside imaging. It supports your radiology department's goal to continuously enhance patient comfort and performance.

### **Easy handling for convenient radiology exams**

The small width of the DR 100e allows convenient handling around the patient, even in very confined areas. It can be positioned precisely and safely whether the patient is sitting, standing or lying down, for greater patient comfort.

The DR 100e comes with a choice of a fixed or rotating column, offering maximum handling flexibility for every budget. The convenient handling capabilities reduce patient waiting times and increase diagnostic confidence.

### **Wireless detector offers improved flexibility and infection control**

The wireless capability of this mobile solution further increases the already excellent flexibility, improving your overall workflow. And with the wireless detector, there is less chance of picking up dirt or germs, making the DR 100e ideal for use in the ICU, pediatrics and neonatal areas.

## Efficiently view images after exposure

Thanks to the fast preview times, images can be viewed quickly to verify right away that no retake is necessary, without moving either the patient or the DR 100e.

## MUSICA®: tuned for excellent results

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

## Intuitive MUSICA® workstation: a more efficient workflow

A MUSICA® workstation with a large 19" touch screen is integrated onto the DR 100e for 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 generator console. MUSICA® 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 DR 100e, you can enjoy the productivity benefits of Direct Digital, including a lower cost per exam. The efficient 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 the potential for lower doses.

## 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.



## Technical Specifications

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### X-ray generator

**32 kW max. power**  
**High frequency generator** (40 kHz)  
**Monobloc thermal capacity:** 600 kJ (800 kHU)  
**kV range:** 40 - 125 kV (1 kV steps)  
**mA range:** 50 - 400 (according to kV selection)  
**mAs range:** 0.1 - 110 (12.5% steps) (Optional 220)  
**Time range (according to mAs selection):** 0.001 - 2.2 s

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### Exposure controls

**Double switch X-ray hand-switch** with extensible cable  
**Remote control** (optional)

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### X-ray tube

**Rotating anode:** 3000 rpm  
**Double focal spot:** 0.8 and 1.3 mm (Optional 0.6 and 1.3 mm)  
**Nominal focus power:** 16 kW small focus;  
32 kW large focus (Optional 11 kW and 32 kW)  
**Anodic diameter:** 64 mm  
**Anodic angle:** 15°  
**Max. continuous anode dissipation:** 300 W  
**Anode thermal capacity:** 80 kJ (107 kHU)

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### Collimator

**High brightness power LED**  
**30 s light timer**  
**Extractable meter** for SID measure  
**Collimator rotation:**  $\pm 120^\circ$   
**Additional filtration by manual selection:**  
1 mm Al + 0.1 mm Cu; 1 mm Al + 0.2 mm Cu; 2 mm Al

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### Options

**DAP chamber dosimeter**  
**Remote control**  
**Collimator with double laser line** for 1m SID definition  
**Rotating column:**  $\pm 90^\circ$   
**Second capacitor bank:** 220 mAs instead of 110 mAs

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### PC/monitor

**Touch screen console:** 19" (483 mm) diagonal

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### Detector family

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

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### Various

Besides a wireless detector, system can work with film cassettes or CR Cassettes

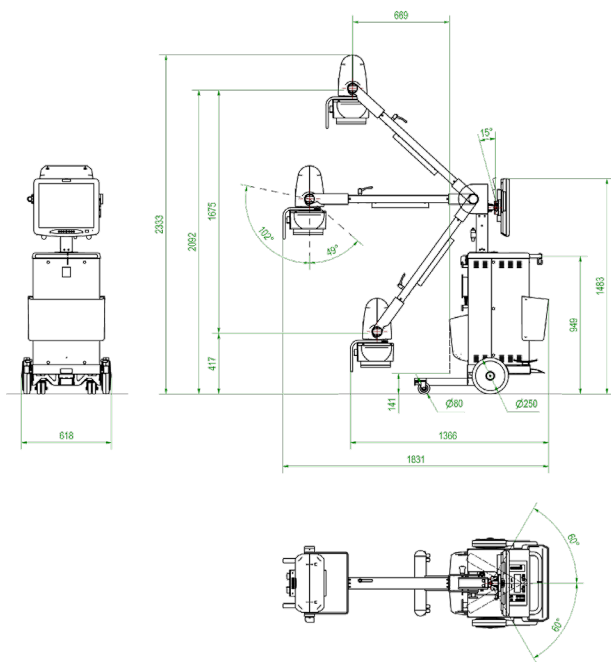
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### Power supply

**115/230 Vac  $\pm 10\%$ , 50/60 Hz Auto selection**  
**Max. line resistance:**  $< 1 \Omega$   
**Connection to standard mains outlet:** 16 A  
**Length power cable:** 8 m

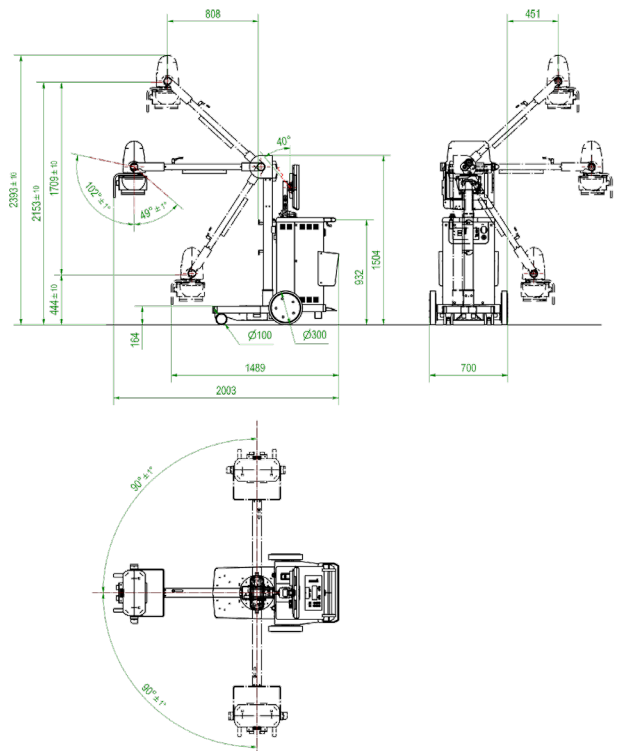
### Mechanical data (Unit with Fixed Column)

**Wheels diameter:** 80 mm front; 250 mm rear  
**Max. length in transport position:** 1366 mm  
**Max. height in transport position:** 1444 mm  
**Max. width in transport position:** 618 mm  
**Handle height:** 949 mm  
**Focus-floor distance:** 417 - 2092 mm  
**Monobloc rotation around sagittal axis:**  $\pm 180^\circ$   
**Monobloc rotation around transversal axis:**  
 $-49^\circ$  to  $+102^\circ$   
**Weight:** 181 kg



### Mechanical data (Unit with Rotating Column)

**Wheels diameter:** 100 mm front; 300 mm rear  
**Max. length in transport position:** 1489 mm  
**Max. height in transport position:** 1504 mm  
**Max. width in transport position:** 700 mm  
**Handle height:** 932 mm  
**Focus-floor distance:** 444 - 2153 mm  
**Monobloc rotation around sagittal axis:**  $\pm 180^\circ$   
**Monobloc rotation around transversal axis:**  
 $-49^\circ$  to  $+102^\circ$   
**Weight:** 252 kg





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