

# DR 10e

## CASSETTE-SIZED DIGITAL DETECTOR

- The easiest and most versatile way to go Direct Digital
- Wireless, high resolution full-field AED detector works with virtually any conventional or mobile X-ray equipment, maximizing the use of existing investments
- Compact, 10x12" detector fits into incubator bucky trays, for pediatric and neonatal imaging
- Convenient size is also ideal for extremities and special examinations
- Fewer retakes improves the delivery of patient care and comfort
- Easier patient positioning enhances workflow
- High DQE and optimal pixel size support lower patient radiation dose
- Cassette-less solution improves workflow and examination speed
- Ergonomic design is easy to clean and disinfect
- Excellent connectivity with DICOM-compatible software and imagers enables fast sending of images
- MUSICA processing offers excellent contrast detail and exam-independent, consistent image quality

The DR 10e cassette-sized Digital Detector with Automatic Exposure Detection (AED) offers a compact, convenient and ergonomic solution for fast, high quality digital imaging, even in challenging imaging situations

### Turn existing equipment into "Instant DR"

Lightweight yet robust, the DR 10e Digital Detector offers general radiography facilities all the advantages of Direct Digital while maximizing the use of their existing X-ray investments, including mobile imaging equipment.

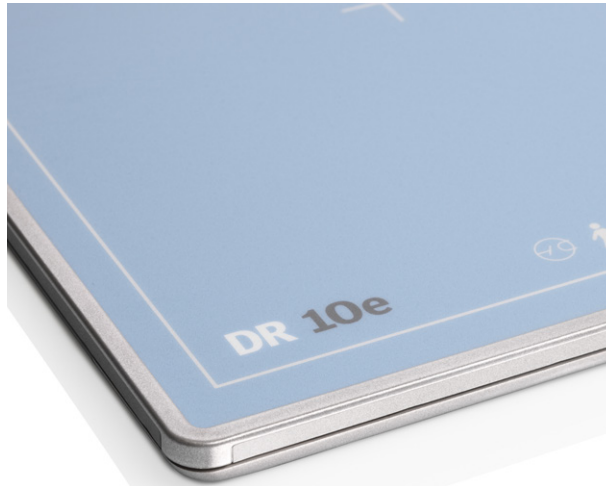
The full-field Automatic Exposure Detection (AED) detector requires no electrical connection to the X-ray system, for seamless use with virtually all conventional and mobile digital X-ray systems.

The lightweight, Rib Magnesium Alloy frame and wireless technology enhance the operator's comfort and improve exam flexibility, in a robust yet attractive design.

At 10x12 inches, the DR 10e fits into incubator bucky trays, making it convenient for neonatal and pediatric imaging, as well as for extremities and special examinations.



## 10X12-INCH CASSETTE-SIZED DIGITAL AED DETECTOR



### Faster, more efficient workflow

The DR 10e is an integral part of an Agfa Instant DR solution, which includes the NX image acquisition software, MUSICA processing and detector. These cassette-less, digital solutions provide a range of workflow benefits that improve productivity and speed up exam time. Both wireless and wired configurations are possible. Retakes can be made more quickly without changing cassette, and the number of images is no longer limited by cassette availability. To complete the workflow, images can be sent more quickly to a PACS or imager in DICOM format. This faster, more efficient workflow improves the delivery of patient care and comfort.

### MUSICA and DR image quality: improved diagnostic confidence

The DR 10e is compatible with our 'gold standard' MUSICA image processing, which has been specially adapted and tuned to further enhance the excellent DR image quality. Exam-independent, it delivers consistent image quality and high contrast detail. Combining MUSICA with the sensitivity and sharpness of the DR 10e, provides improved diagnostic confidence and efficiency. The high Detective Quantum Efficiency (DQE) and optimum pixel size support lower radiation dose for patients.

### Services & Support

Agfa offers service agreement solutions tailored to the customer's situation. Available in Basic, Comfort and Advanced levels, they make lifecycle costs predictable. A worldwide team of some 1,000 service professionals can provide support at all phases of the project, and even help customize examination trees or link RIS protocol codes, further improving the return on investment. This team goes well beyond maintenance support, offering value-added services such as super user training, staff training and software upgrades.

## Technical Specifications

### DETECTOR

- **Detector type:** Amorphous Silicon with TFT
- **Conversion screen:** CsI (Cesium Iodide)
- **Pixel pitch:** 150 µm
- **Active pixel matrix:** 1536 x 1920 pixels
- **Active area size:** 230 mm x 288 mm
- **Effective pixel matrix:** 1536 x 1920 pxl
- **Grayscale:** 16 bit
- **Spatial Resolution:** Min. 3.36 lp/mm
- **Outer dimensions:** ISO 4090 Cassette size; 268 x 328 x 15 mm
- **Weight:** 1.47 kg including battery
- **Energy Range Standard:** 40 – 150 kVp

### ENVIRONMENTAL REQUIREMENTS

#### Operation

- **Temperature (°C):** +15 ~ +35
- **Humidity (%Rh):** 15 ~ 80
- **Atmospheric pressure:** 700 ~ 1060 mbar
- **Shock:** 150 g
- **Vibration:** 0.2 g
- **Drop limits:** Max. 1200 mm

#### Storage and transportation

- **Temperature (°C):** -30 ~ +50
- **Humidity (%Rh):** 10 ~ 90
- **Atmospheric pressure:** 700 ~ 1060 mbar
- **Shock:** 4.8 km/h
- **Vibration:** 6.9 m/s<sup>2</sup>
- **Drop limits:** Max. 910 mm (without palette)

### WIFI

- **Wireless connection:** IEEE 802. 11n (2.4/5.2/5.3/5.6/5.8GHz)
- **Wireless signal range:** maximum 6 m

### BATTERY

- **Type:** Rechargeable Lithium ion battery
- **Battery in operation state:** 3 hours; > 700 images
- **Weight:** 230 g
- **Battery output:** Output Voltage: DC +7.4 V
- **Capacity:** 3200 mAh
- **Lifecycle:** Expected lifetime: 75% at 400 cycles

### BATTERY CHARGER

- **Type:** Lithium ion battery charger
- **Operation temperature:** 0°C – 35°C
- **Simultaneous charging:** 2 batteries
- **Dimensions:** Width x Height x Depth 92.5 x 259 x 56 mm
- **Weight:** 600 g
- **Electrical connection:** 16V, DC/6.5A
- **AC adaptor Rating Input:** 100 – 240 V, AC/1.5A, 50 – 60 Hz

### REGISTRATION CABLE

(for installation and sharing in wireless use mode)

- **Length:** 0.7 m
- **RJ45 connector**

### POWER BOX (for wired connection mode)

#### Power supply conditions

- **Rated voltage:** 100 – 240 V
- **Input current:** 2 – 0.84 A
- **Frequency:** 50 – 60 Hz

#### Environmental conditions

- **Operating temperature (°C):** 15~35  
Humidity (%Rh): 15~80  
Pressure (hPa): 700~1060
- **Non-operating temperature (°C):** 5~35  
Humidity (%Rh): 10~80  
Pressure (hPa): 700~1060
- **Storage temperature (°C):** -30~50  
Humidity (%Rh): 10~90  
Pressure (hPa): 700~1060

### CABLE

- **Length:** 10 m
- **RJ45 connector**

# 10X12-INCH CASSETTE-SIZED DIGITAL AED DETECTOR

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