

# DX-D 45

The DX-D 45 Digital Detector with Automatic Exposure Detection (AED) offers a fast and effective way for radiography facilities to benefit from high quality digital imaging using any X-ray equipment.

- The easiest and most versatile way to go Direct Digital
- High resolution, light-weight and small cassette-sized detector gives maximum convenience and portability and ideal for use in pediatrics, for extremities and special examinations
- Automatic Exposure Detection (AED) allows seamless use with virtually all X-ray systems, maximizing the use of the existing X-ray equipment
- Improved workflow and examination speed
- Excellent connectivity with DICOM compatible software and imagers
- MUSICA processing for excellent contrast detail and exam-independent, consistent image quality
- Choice of Cesium Iodide (CsI) or Gadolinium Oxy-Sulphide (GOS) detector scintillator

## The easiest way to go “instant DR”

For both conventional and mobile digital X-ray systems, the small and light-weight DX-D 45 Digital Detector offers general radiography facilities all the advantages of Direct Digital, while maximizing the use of their existing equipment.

The high resolution DX-D 45 can be combined DX-D 40 detector and is therefore ideal for use in pediatric environment, for extremities and for special examination.

The Automatic Exposure Detection (AED) means no electrical connection to the X-ray system is required, for seamless use with virtually all X-ray systems. The convenient dimensions of the DX-D 45 make it an excellent solution for imaging of premature infants. With its 10x12 inch image size, it can fit into an incubator bucky tray.

Wireless technology enhances operator comfort, and improves exam flexibility and convenience, even in challenging imaging situations.

## Faster and more efficient workflow

The DX-D 45 is an integral part of an Agfa HealthCare Instant DR solution, which includes the NX image acquisition software with MUSICA processing and detector. These cassette-less and filmless solutions provide a range of workflow benefits that improve productivity and speed up exam time. Retakes can be made faster without changing cassette, and the number of images is no longer limited by the availability of cassettes. To complete the workflow, images can be sent faster to a PACS or imager in DICOM format.



## DIGITAL AED DETECTOR



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

The DX-D 45 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 high quality of the DX-D 45, in terms of both sensitivity and sharpness, provides improved diagnostic confidence and efficiency.

### Services & Support

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

## Technical Specifications

### DETECTOR

- **Detector type:** Amorphous Silicon with TFT
- **Conversion screen:** CsI (Cesium Iodide) and GOS (Gadolinium oxysulfide)
- **Pixel pitch:** 124  $\mu$ m
- **Active pixel matrix:** 2048 x 2560 pixels
- **Active area size:** 253.95 x 317.44 mm
- **Effective pixel matrix:** 2024 x 2536
- **Effective area:** 251.0 x 314.5 mm (10 x 12 inch)
- **Grayscale:** 16 bit
- **Spacial Resolution:** Min. 4.0 lp/mm
- **Outer dimensions:** 287 x 350 x 15 mm
- **Weight:** 2.2 kg
- **Wireless data transmission:** IEEE 802.11n, 2.4 GHz / 5 GHz,
- **Energy Range Standard:** 40 – 150 kVp

### Environmental Requirements

#### Operation

- **Temperature:** +10 ~ +35° C
- **Humidity:** 30 ~ 85% (Non-condensing)
- **Atmospheric pressure:** 70 ~ 106 kPa
- **Shock:** 1.6 G
- **Vibration:** 0.7 G
- **Drop limits:** Max. 700 mm

#### Storage and transportation

- **Temperature:** -15 ~ +55° C)
- **Humidity:** 10 ~ 90% (Non-Condensing)
- **Atmospheric pressure:** 50 ~ 106 kPa
- **Shock:** 20 G
- **Vibration:** 0.7 G
- **Drop limits:** (700 mm)

### BATTERY SPECIFICATIONS

- **Type:** Lithium Ion
- **Capacity:** 3100 mAh
- **Nominal Voltage:** 7.6V
- **Charging time:** 2.5 Hours
- **Operation time:** 3 hours (when sleep mode is off)
- **Cycle life:** Approx. 500 cycles, Capacity  $\geq$  80% (100% = 3100 mAh)

### SYSTEM CONTROL UNIT

#### Power supply

- **Input:** AC100 to 240V, 50/60 Hz, Max. 2.0-0.8A
- **Output:** DC +24V 3.25A, 78W

#### Cabling ports

- Gigabit Ethernet Ports – 3EA
- Power over Ethernet Ports – 2EA
- **Wireless communications:** IEEE 802.11n (2.4 GHz/5 GHz)
- **Dimensions (W x H x D):** 300 x 235.8 x 58 mm, Antenna height – 140 mm
- **Weight:** 2.5 kg

### MINI SYSTEM CONTROL UNIT

#### Power supply

- **Input:** DC +24V 2A Max

#### Cabling ports

- Gigabit Ethernet Ports – 3EA
- Power over Ethernet Ports – 1EA
- **Wireless communications:** IEEE 802.11n (2.4 GHz/5 GHz)
- **Dimensions (W x H x D):** 300 x 235.8 x 58 mm, Antenna height – 140 mm
- **Weight:** 1.2 kg

## DIGITAL AED DETECTOR

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, Orthopaedics and Veterinary Care. 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](http://www.agfahealthcare.com)

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Published by Agfa HealthCare NV  
B-2640 Mortsel - Belgium  
554F2 GB 00201506

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