

## DIGITAL DETECTOR WITH HANDLE

# DX-D 20



**THE DX-D 20 DIGITAL DETECTOR, WITH A HANDLE FOR EASY PLACEMENT, OFFERS GENERAL RADIOGRAPHY FACILITIES A FAST AND EFFECTIVE WAY TO BENEFIT FROM HIGH QUALITY DIGITAL IMAGING USING EXISTING X-RAY EQUIPMENT.**

- Provides an easy way to go Direct Digital
- Maximizes existing equipment investment
- Offers convenience and portability, including a handle for easy use
- Improves workflow and exam speed
- Superior connectivity to PACS, HIS/RIS and imagers
- Choice of Cesium Iodide (CsI) or Gadolinium Oxy-Sulphide (GOS) detector conversion screens
- Small pixel size gives more image information, for improved diagnostic effectiveness
- MUSICA<sup>2</sup> processing for superior contrast detail and exam-independent, consistent image quality

### An easy way to go Direct Digital

For both conventional and mobile digital X-ray systems, Agfa HealthCare's DX-D 20 Digital Detector offers general radiography facilities all the advantages of Direct Digital, while maximizing the use of their existing equipment. The 43x35 cm detector is surrounded by a strong enclosure with a handle for ease of placement and use. Ease of handling ensures the flat panel detector is versatile for all exams.

The DX-D 20 is an integral part of an Agfa HealthCare Imaging or Integration package. These packages include an NX with MUSICA<sup>2</sup> processing, XRDI Interface and detector.

## Faster and more efficient workflow

As part of a cassette-less and filmless solution, the DX-D 20 provides a host of benefits that improve workflow and speed up exam time. Retakes can be made immediately without changing cassette, and there is no risk of patients' cassettes being mixed up. What's more, the number of images is no longer limited by the number of cassettes available. To complete the workflow images can be sent immediately to PACS or imager in DICOM format.

## Improved diagnostic effectiveness

The DX-D 20 offers the smallest pixel size available: 139  $\mu\text{m}$ . So each image has more image information - 9 megapixels. And more image information means more accurate diagnosis.

## MUSICA<sup>2</sup>: tuned for the best results

The DX-D 20 is compatible with our 'gold standard' MUSICA<sup>2</sup> image processing, which 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.

# technical

## SPECIFICATIONS

**Receptor type:** Amorphous Silicon with Charge Well Pixel™ Technology

**Conversion screen:** CsI and GOS

**Pixel Area:**

- Total: 47.5 (h) x 49.2 (w) cm (18.7 x 19.37 inch)
- Active: 42.4 (h) x 35.3 (v) cm (16.7 x 13.9 inch)

**Pixel Matrix:**

- Total 3.072 (h) x 2.560 (v)
- Active: 3.052 (h) x 2.540 (v)
- Pixel Pitch: 139 mm
- Limiting Resolution: 3.6 lp/mm
- Energy Range Standard: 40-150 kVp
- Fill Factor: 100%
- Scan Method: Progressive
- A/D conversion: 14 bits
- Image preview: 1 second
- Cycle time (minimum/standard): 8/10 sec
- Data output: gigabit Ethernet

**Exposure control:**

- Inputs: Prepare, Expose-Request
- Outputs: Expose-OK

**Software:**

The software release includes ViVa™, an application for image acquisition and viewing on an end-user workstation or laptop running Microsoft® Windows™. The developer's software package includes a 'Virtual Command Processor' software interface that performs detector calibration, detector setup, image acquisition and image corrections.

ViVa™ includes file type translators for .viv, .raw, .jpg, and .bmp file formats. Windows® XP compatible.

**Environmental:**

- Shock: high shock tolerance
- Water: water resistant

**Temperature range**

- Operating (at back cover): 10°C to 35°C (max.)
- Ambient – Storage: -20°C to +70°C

**Humidity**

- Operating (non-condensing): 10 to 90%
- Storage (non-condensing): 10 to 90%

**Regulatory:**

- CE label
- US: UL 60601-1
- Canada: CSA 22.2 No. 601.1-M90

**Mechanical:**

- Cable length: 8 m
- Size: 49.2 x 47.5 x 2.3 cm (19.4 x 18.7 x 0.9 inch)
- Weight: 4.9 kg (10.8 lbs)

**Power:**

- Power Dissipation: 35 watts (max)
- I/O Interface Box: 100-240 VAC, 47-63 Hz

## 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](http://www.agfahealthcare.com)

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