

AGFA 
RADIOLOGY

ROBUST, COST-EFFICIENT,
WIRELESS FLAT PANEL DETECTOR

DURA-LINE XD 14 AND XD⁺ 14

Versatile, robust and cost-effective, Dura-line XD 14 and XD⁺ 14 wireless DR detectors provide exquisite image quality, with a 14 x 17" (36 x 43 cm) field of view, choice of 1 or 2 batteries for extended battery autonomy, and a Cesium Iodide scintillator.

Technical Specifications

Commercial name

XD 14 and XD+ 14

Detector

Model:

- XD 14 scintillator type A (FXRD-3643VAW)
- XD+ 14 scintillator type B (FXRD-3643VAW PLUS)

Image Sensor: TFT: a-Si (Amorphous Silicon)

X-ray Scintillator Type: CsI (Cesium iodide)

Pixel Pitch: 140 µm

Field of View: 36 x 43 cm (14 x 17")

Active Area (H x V): 358.4 x 430.08 mm

Active Array: 2560 x 3072 pixels

Effective Area: 355.04 x 426.72 mm

Effective Array: 2536 x 3048 pixels

Grayscale: 16 bit

Spatial Resolution: Min. 3.5 lp/mm

Image Acquisition Time (Wired): Up to 3 sec.

(Set exposure time to 500 ms / except exposure time)

Image Acquisition Time (Wireless): Up to 3 sec.

(IEEE802.11ac, MiMO 3x3, 5 GHz, 80 MHz)

(Exposure time is set to 500 ms, except exposure time)

Cycle Time: Min. 4 sec.

(with optimal wired / wireless environment, exposure time is set to 500 ms, excluding software processing time)

X-ray Synchronous Control:

- AED (Auto Exposure Detection)
- DR Trigger (External Line Trigger)

PX Rating: IP67

Power Supply:

- Powered from SCU via tether interface cable: DC 24 V, Max. 1.0 A
- Powered via AC-DC adapter: DC 18 V, Max. 4.44 A
- Powered via 2 battery packs: DC 9 ~ 13.2 V, Max. 78.54 Wh

Power Consumption:

- Max. 24 W (without battery charged)
- Max. 80 W (when charging battery)

Operating Time Battery:

- One battery pack: 7.5 hours (image acquired every 100 seconds), 8 hours (standby)
- Two battery packs: 15 hours (image acquired every 100 seconds), 16 hours (standby)

Dimensions (H x W x D): 384.0 x 460.0 x 15.0 mm

Weight:

- Model XD 14: One battery pack: 2.95 kg
Two battery pack: 3.15 kg
- Model XD+ 14: One battery pack: 3.10 kg
Two battery pack: 3.30 kg

Load limit:

- At Surface: 400 kg
- At Point: 200 kg

Image Transmission:

- Wired: Gigabit Ethernet (1000BASE-T) via Power over Ethernet (PoE)
- Wireless: IEEE 802.11n / ac (2.4GHz / 5GHz), 3 antennas

Wireless Communication

Wireless standard: IEEE 802.11n/ac

Frequency range:

- 2.412 ~ 2.472 GHz (13 Channels)
- 5.18 ~ 5.24 GHz (4 Channels)
- 5.745 ~ 5.805 GHz (4 Channels)

Data transmission rate:

- Max. 300 Mbps (IEEE802.11n, MIMO 2x2, 5 GHz, 40 MHz)
- Max. 1300 Mbps (IEEE802.11ac, MIMO 3x3, 5 GHz, 80 MHz)

Modulation: BPSK, QPSK, 16-QAM, 64-QAM, 256-QAM

Transmission power:

- 2.4 GHz: Max. 19 dBm (per chain)
- 5 GHz: Max. 18 dBm (per chain)

Security: WPA2-PSK

Antenna: Dual Band Antennas (3EA, In-built)

Environmental use

Temperature:

- Operation: 0 ~ +40° C
- Storage & Transportation: -15 ~ +55° C

Humidity:

- Operation: 5 ~ 90% (Non-condensing)
- Storage & Transportation: 5 ~ 90% (Non-condensing)

Atmospheric pressure:

- Operation: 700 ~ 1060 hPa
- Storage & Transportation: 500 ~ 1060 hPa

Shock:

- Operation: 20 G
- Storage & Transportation: 30 G

Vibration:

- Operation: 2 G
- Storage & Transportation: 5 G

Drop Limit:

- Operation: 1000 mm
- Storage & Transportation: 1000 mm

Order codes (ABC codes)

MAXXM	XD 14 DETECTOR (FXRD-3643VAW)
MAX1S	XD+ 14 DETECTOR (FXRD-3643VAW PLUS)
MA3YA	BATTERY CHARGER DURA-LINE (FXRC-04A)
MAX87	BATTERY PACK DURA-LINE (FXRB-04A)
MAX4Y	CRADLE CHARGER DURA-LINE (FXRR-01A)
MAX63	MINI-SCU BOX DURA-LINE (FXRS-04A)
MAX51	SCU-LITE DURA-LINE (FXRP-02A)
MAX75	TETHERED CABLE XD
MA3W5	XD/XD+ 14 CLICK ON HANDLE
MA3TY	XD/XD+ 14 GRID, R 10:1, 132 L/INCH
MA3RU	XD/XD+ 14 GRID, R 6:1, 132 L/INCH
MA3SW	XD/XD+ 14 GRID, SD R:6-1, 132 L/INCH

Battery Pack

Model: FXRB-04A

Type: Lithium Ion Polymer

Nominal Voltage: DC +11.55 V

Nominal Capacity: 3400 mAh

Number of Cells: 3S1P (3 Series 1 Parallel)

Battery Life: Approx. 800 times (One time standard: Fully charged and then fully discharged)

Dimensions (H x W x D): 189.0 x 89.0 x 6.65 mm (max.)

Weight: 185 g (max.)



Battery charger, can charge up to 2 detector batteries

Model: FXRC-04A

Nominal Voltage: DC +24 V

Dimensions (H x W x D): 230.0 x 304.0 x 15.5 mm

Weight: 450 g

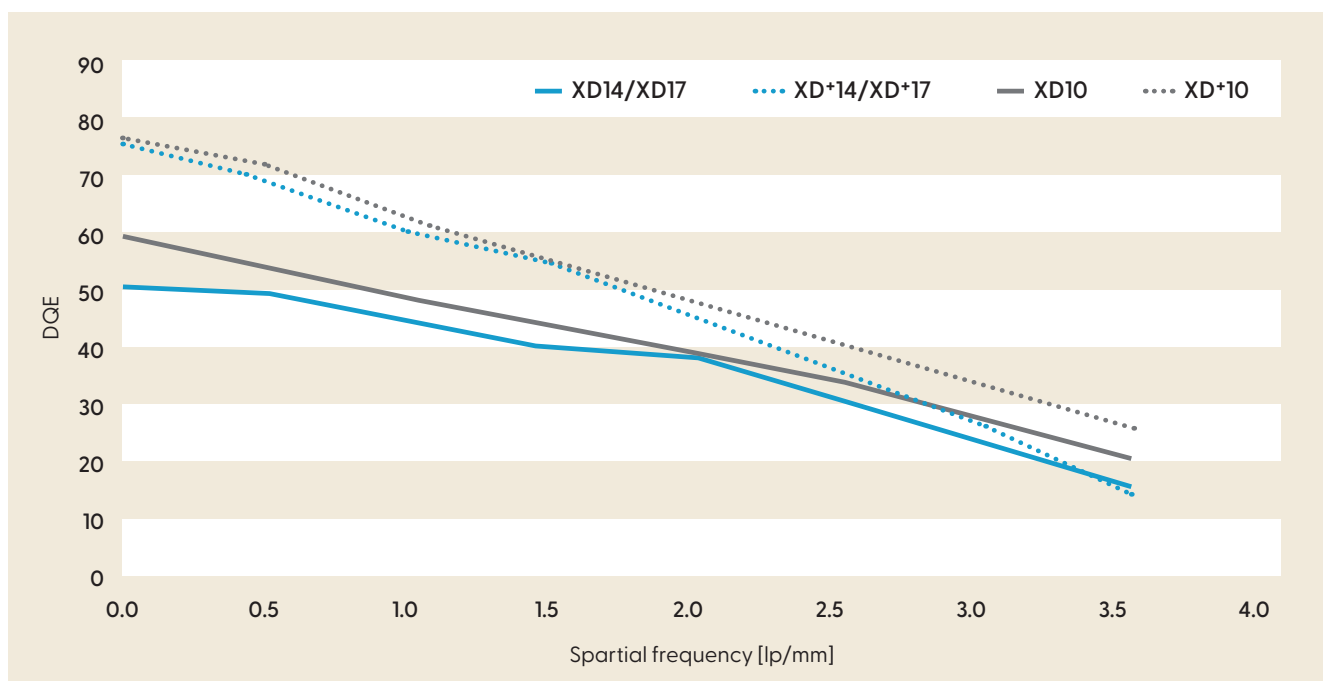
Cradle charger, can charge up to 2 detectors

Model: FXRR-01A

Dimensions (H x W x D): 159.0 x 410.0 x 168.0 mm

Weight: 4.04 kg

DQE specifications





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