



DR acquisition system with Flat Panel technology

Product Data

The *VDX4343TW imaging system* is an image acquisition system that can be integrated with general-purpose radiology systems. Designed to improve the general X-ray diagnostic room workflow, it provides high quality images and long-term reliability. The acquisition system uses Canon FDX4343RPW flat panel detector which provides outstanding image sharpness and detail. The system includes:

- Canon FDX4343RPW amorphous Silicon - Cesium Iodide scintillator detector to convert X-ray photons into a digital image (one or two detectors according to the system configuration).
- Integrated Operator Console providing full control of exposure (only with GIOOC generators), image acquisition, processing and DICOM functions.

VDX 4343TW represents also a retrofit kit solution allowing the digitalization of existing general radiology systems in a very short time following the check of the technical features of the equipment.

Digital Detector –FDX4343RPW

Type	Wireless Flat Panel Detector
X-ray conversion layer	Cesium Iodide (CsI) with amorphous Silicon (a-Si) photodiode
Image matrix size	3072 (H) x 3072 (V) pixels
Limiting resolution	3.7 lp/mm typical
MTF, typical values	36% @ 2 lp/mm
DQE, typical values	>70% @ 0 lp/mm
A/D converter	16 bit (65536 grey levels)
Pixel size	140 μ m
Energy range	40 to 150 kVp
Acquisition window	500 ms. Tomography and Dual Energy functions are not supported
Active area	430 (H) x 430 (V) mm
Dimensions	460 x 460 x 15 mm (W x D x H)
Weight	3.7 kg
Maximum load applicable on the detector	- Maximum load weight of 150 kg distributed around the overall surface of the detector - Maximum load weight of 100 kg distributed on an area of 40 mm in diameter of the detector surface
Wireless connection	IEEE 802.11 a/b/g/n, 5 GHz
Ingress protection rating	IPX0



Rechargeable Li-ion battery

Nominal voltage	1145 V
Nominal capacity	3400 mAh
Dimensions	245 x 130 x 8.5 mm (W x D x H)
Weight	385 g
Number of exposures at full charge	1200 exposures (500 ms acquisition window and 8 s exposure cycle time)
Autonomy	32 h in normal mode 4 h in sleep mode
Charging time	2,2 h

Battery charger

Number of slot	1 slot for battery charging
Dimensions	281.6 x 206.6 x 21.2 mm (W x D x H)
Weight	500 g

AC adapter for battery charger

Input	100 – 240 V AC, 12–0.5 A, 47–63 Hz
Output	19 V DC, 526 A
Dimensions	76 x 146 x 43 mm (W x D x H)
Weight	510 g

Electrical features

Power supply (computer)	100–240 Vac, 875 W, 50/60 Hz
Absorbed current (computer)	4.62 A
Power supply (synchronizer)	24 Vdc
Absorbed current (synchronizer)	0.5 A
UPS	900 VA (max absorbed power by VDX workstation)



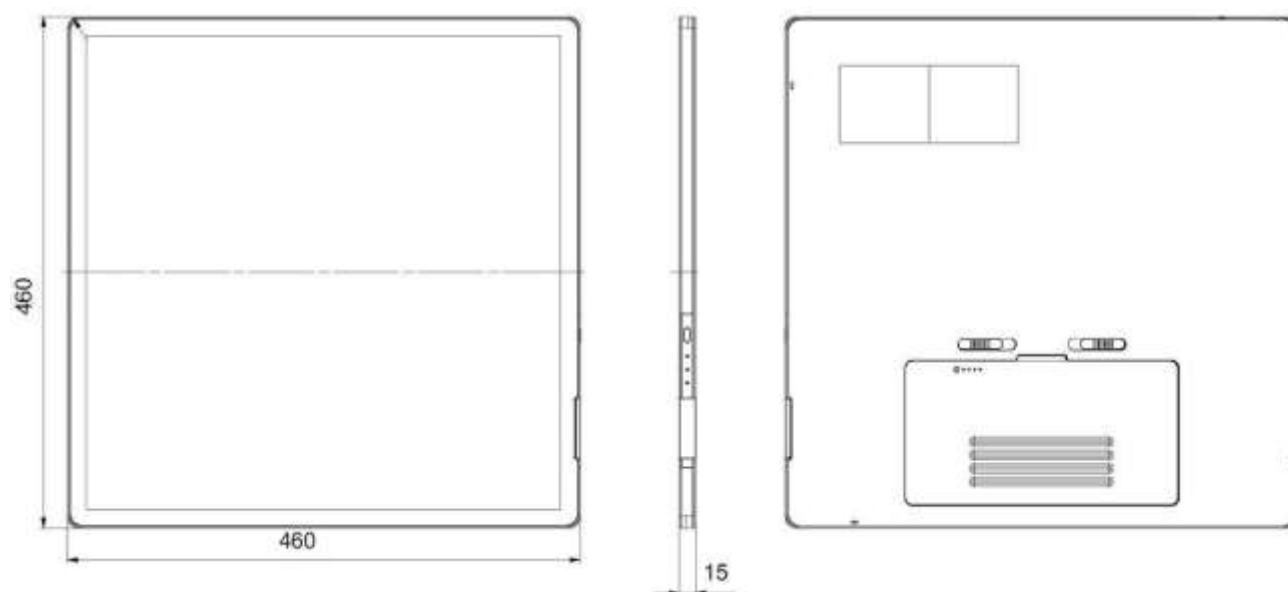
Environmental conditions

Operating conditions	Temperature:	from +10° to +35°C (from 50° to 95° F)
	Relative humidity:	from 30% to 70%, non-condensing
	Pressure:	from 80 to 125 kPa
Conditions for transport and storage	Temperature:	from -10° to +55°C (from 14° to 131° F)
	Relative humidity:	from 10% to 90%, non-condensing
	Pressure:	from 70 to 125 kPa

Standards and regulations

CE	CE symbol grants the product compliance to the European Directive for Medical Devices 93/42/EEC and its revised versions
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Dimensions (all quotes in mm)



Note: Products are continuously under review in the light of technical advancement. The actual specification may therefore be subject to improvement or modification without notice.

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