X-Ray FLAT PANEL IMAGER FDXA3543RPW

Active Area: 35 (H) × 43 (V) cm (14" × 17")

FEATURING:

- Together with the wireless LAN communication* (IEEE 802.11n) feature, a lightweight, thin detector simplifies operation.
- The shape of the detector, which is identical to that of a conventional film cassette complying with ISO4090, enables digital radiography in the existing analog radiography configuration.
- The sensor with 125µm of pixel pitch and CsI (Cesium Iodide) used for the scintillator produces high-resolution (approx. 9.5 Mega pixels) digital images within the effective imaging area (350×426mm).
- * At the time of installation, set a specific channel in the frequency band of 2.4GHz / 5GHz before using the LAN. Note that the available frequency band for this wireless LAN standard varies, depending on the local radio frequency regulations and system requirements.

INTENDED USE:

FDXA3543RPW is an X-Ray FLAT PANEL IMAGER for radiographic use.

This device can be used with an X-ray generator and an image processing unit.

It provides the digital image by detecting X-rays passing through a patient body and incident on its surface.

It does not provide the image for diagnosis, nor function or control the X-ray generator.

For medical diagnosis, it additionally requires image processing with an external image processing unit to visualize the digital image.

It is not intended to use for mammography or angiography application.

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[★]The information contained herein may be changed without prior notice. It is therefore, advisable to contact to CETD before processing with the design of equipment incorporating this product.

COMPONENTS AND CHARACTERISTICS

Sensor Unit:	
Rated power supplyWire	
	ed: Powered by ACDC box
Dimensions and mass Approx. 384×460×15 mm / A	•
	,
Battery Pack: LB-1A	
This dedicated battery pack is necessary for the FDXA3543RPW.	
For details, refer to the User's Manual for the Battery Pack LB-1A	
Type	Lithium ion battery
Rated voltage	
Capacity	
Cycle life Approx. 300 cycles	, , ,
Dimensions and mass App	rox. 127×161×7mm / Approx. 250g
Battery Charger: BC-1A	
This dedicated battery charger is necessary for the FDXA3543RP	
For details, refer to the User's Manual for the Battery charger BC-	
Input voltage	
Input frequency	
Rated input capacity	
Standby power Output	
Dimensions and mass Approx	•
• •	. 103^230^110 mm / Approx. 700g
※This battery charger is designed for LB-1A.	
Wiring Unit: WU-3A	
This dedicated Wiring unit is necessary for the FDXA3543RPW.	
For details, refer to the User's Manual for the Wiring unit WU-3A	
ACDC Box	
Input voltage	100 to 240Vac
Input frequency	
Output	
Dimensions and mass	
Sensor Cable	- (
Cable length	7m
Cable Diameter	φ7.3mm
Outline Dimensions (Connector shell)	69× 37.5×13mm
Status indicator	
Outline Dimensions (Body)	68×153.9×39.4mm
Cable Diameter	ϕ 4.3±0.2mm
Cable length	
Weight	Approx. 0.4kg

Environmental:

Operating Conditions Temperature Humidity Pressure	30 to 85 % (Non-Condensing)
Storage Conditions	
Temperature	+5 to +40 °C
Humidity	
Pressure	70 to 106 kPa
Note: In an unpacking	
Transporting conditions	
Temperature	30 to 50 °C
Humidity	`
Pressure	70 to 106 kPa
Note: In a packing at the time of the shipment	

Note:

- (1) Storing a Battery Pack at high temperatures will accelerate its deterioration. When storing a Battery Pack for a long time, be careful about storage temperature. Recommendation temperature for long time storage: 5 to 40°C
- (2) The battery should be sufficiently acclimatized to the environment where it will be used (5 to 35°C) before use.

MAIN CHARACTERISTICS

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Image Format:	
X-ray Conversion Layer	
Effective imaging area 350(H)×426(V)mm Pixel Matrix 2800(H)×3408(V)	
Pixel Matrix	
Cycle Time	
Note: Cycle Time depends on the specifications of the image capture PC.	
Performance:	
MTF (2Lp/mm, RQA5 (70kVp +21mmAl))	
DQE (0.5lp/mm, 1mR, RQA5 (70kVp+21mmAl))	
Linearity (0.05~3.0mR)	
Note: The linearity is defined by slope of log (dose) vs. log (pixel value) graph. Linearity in this section refers to this graph's straight line section, and the saturated section and offset section outside of this straight line are out of scope.	
Attenuation equivalent of the detector front panel	
Gray scale	
Ratings: Maximum Entrance Dose (Linear Output Range)	
Functional specifications: Operation mode	
Software X ray synchronous mode:	
By calling the API of control library depending on the operating state of the X-ray generator, the detector is synchronized. Available in Tethered mode and Wireless Mode X-ray automatic detection mode:	
The detector oneself detects X-ray exposure and starts an image accumulation. There is no	
need to connect with the X-ray generator.	
Image accumulation period can be set to 1,000 or 3,000msec (default:1,000msec)	
Note: 3,000msec is selectable only with a long time accumulation mode.	
Interface:	
Wireless IEEE 802.11a/b/g/n 2.4GHz/5GHz	
Tethered	
Default IP address	
Wireless	
Tethered	

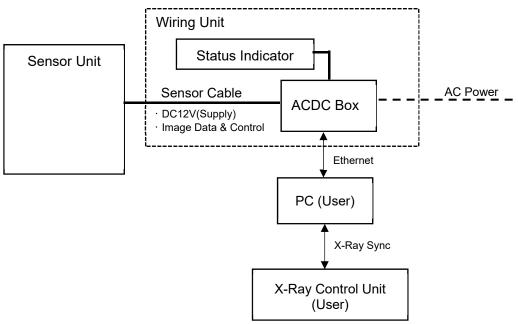
Default subnet mask 255.255.255.0
Default gateway address 0.0.0.0

Image Acquisition Exposure period: 1sec. mode Within 1sec Note: Allowed exposure time includes the exposure delay time of X-ray generator. Imaging preparation time: From ready state Within 1sec **Battery performance: Durability** Software X-ray synchronous mode X-ray automatic detection mode Ave. mode (continuous imaging of 100sec. cycle) 110 images (Approx. 3hours) Note: Measured with a full-charged new battery. Recharge Tethered recharging 6hours ± 20% Note: The time it takes to fully charge the empty new battery. Auto power off: Note: The external power supply is cut off when the communication with the image capture

PC stopped during 10minutes.

Product Components and Interface:

(1) Wired communication



Note: Do not disconnect Ethernet connection while DC12V is operating and supplying to Sensor Unit.

(2) Wireless communication

Wireless connection is established between the internal wireless module of the detector and a laptop computer or a wireless access point.

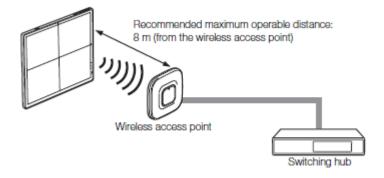
This product supports IEEE 802.11n (Frequency band: 2.4GHz / 5GHz). The available frequency band and channel vary depending on the system requirements and the radio frequency regulations in the country or region where you purchased the product.

Important

Note that the radio frequency channel configured for indoor use may not be usable in outdoor areas, depending on local radio frequency regulations.

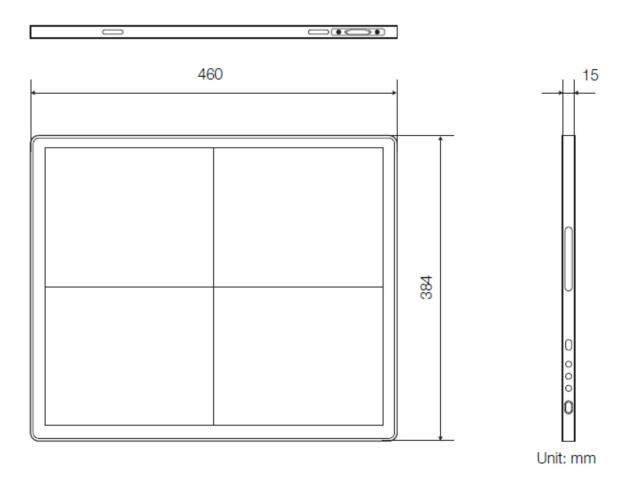
When configuring other WLAN equipment, do not use the same radio frequency (channel) that is selected for this product. Otherwise, an interference between the two pieces of equipment may occur and may result in a decline in transmission speed and other troubles.

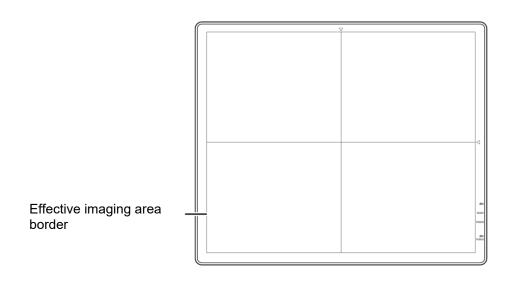
Do not cover the wireless module on the detector with your hands or place obstacles in the way of the wireless access point. Otherwise, the properties of wireless communication, such as the throughput and operable distance, may decrease.



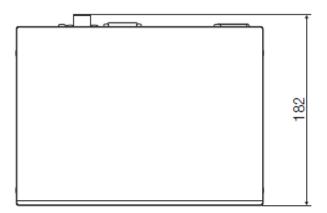
DIMENSIONAL OUTLINE

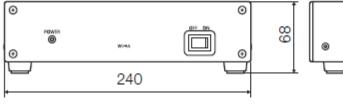
(Sensor Unit)

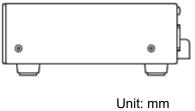




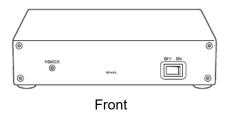
(ACDC Box)

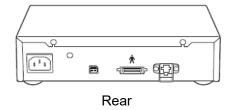




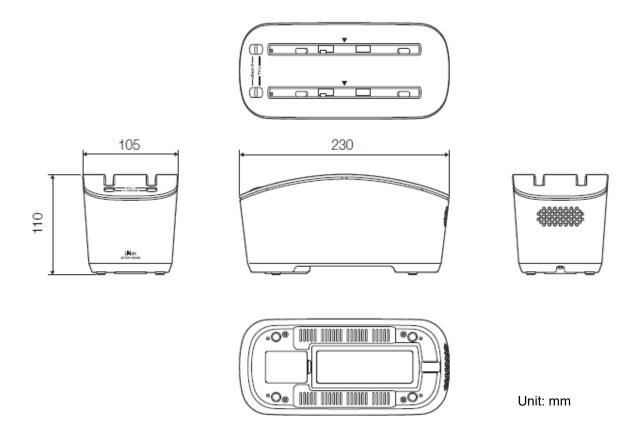


(ACDC Box exterior)





(Battery charger)



(Status Indicator)

