

X-Ray FLAT PANEL IMAGER FDXA4343R-HD

Active Area: 426(H) × 425(V) mm (16.8" × 16.7")

FEATURING:

- High DQE
- High Contrast
- Short Cycle time
- Mounted with AED

- High DQE and High Contrast Csl Phosphor Screen -

CETD has long experience to develop and manufacture fine and thick pillar structure of Csl phosphor screen with high DQE and high sensitivity.

- Low Noise ROIC and Analog Circuit -

ROIC and analog circuit are designed and specified to be suitable for high sensitivity X-ray conversion layer.

INTENDED USE:

FDXA4343R-HD is an X-Ray FLAT PANEL IMAGER for radiographic use. This device can be used with an X-ray generator. It provides digital signal by detecting X-rays which pass through patient body and strike its surface. It does not provide clinical image, nor function of controlling X-ray generator.

For medical diagnosis, it additionally requires image processing with application software to visualize digital image. It is not intended to use for mammography, and angiography applications. This unit is not intended to be transferrable. Install it permanently at a specific location, or it shall not be removable without the use of tools.

[★]The information contained herein is presented only as a guide for the application of our products. No responsibility is assumed by Canon Electron Tubes & Devices Co., Ltd. (CETD) for any infringements of patents or other rights of the third parties which may result from its use.

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COMPONENTS AND CHARACTERISTICS

Flat Panel Sensor Unit:

Sensor Protection Plate	Carbon Fiber Plate
Cooling	Natural Air Cooling
Power Consumption	Maximum 15W
Overall Dimensions	459.5 × 459.5 × 15.8mm (W(H) × D(V) × H)
Weight	4.5kg (approx.)

Interface Box:

Input	AC100-240V, 50/60Hz
Output	DC24V 1.3A 30W(MAX)
Overall Dimensions	280 × 100 × 50mm (W(H) × D(V) × H)
Weight	1.1kg (approx.)

Surrounding conditions:

	Environmental conditions for storage and transport (See remarks.)	Environmental use conditions	Remarks
Temperature	−20 to 70°C	+10 to 35°C	Storage condition range Humidity 90%
Humidity	10 to 90% (No dew condensation allowed)	10 to 85% (No dew condensation allowed)	Caution Avoid dew condensation anytime, including during use, transport or storage. Unpack the product after it sufficiently fits into a new environment. About 8 hours or more is required for environmental fitting.
Atmospheric pressure	50 to 106kPa	70 to 106kPa	_

Accessories:

Cables:

AC Cable	1.8m×1
GND Cable	3m×1

Option Accessories:

DC Cable (Sensor Unit – Interface Box)

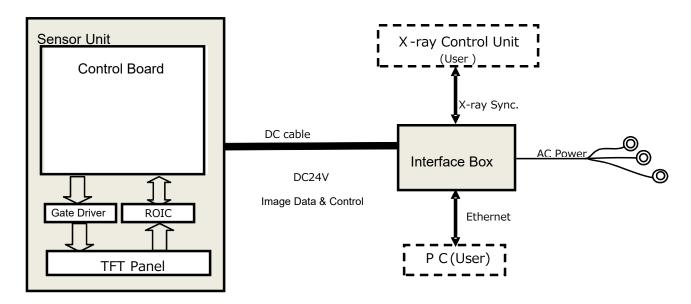
	Name	Length	Notes
1	ECB-F044A-R05/G	5 5m Including connectors	
2	ECB-F044A-R10/G	10m	Including connectors
3	ECB-F044A-R15/G	15m	Including connectors

^{*} Please contact to our local sales for further information.

MAIN CHARACTERISTICS

Image Format:	
X-ray Conversion Layer Cesium Iodide (CsI) with Amorphous Silicon (a-Si) I	Photodiode
Active Area	(16.7 inch)
Pixel Matrix) × 3036(V)
Pixel Pitch	140µm
Cycle Time Shot to Shot (Single Exposure, EXP period 500m	nsec) 6sec.
Performance:	
Limiting Resolution	Lp/mm typ.
MTF	nm, 70kVp)
DQE (DQE (0))	75% (Typ.)
A/D Conversion	16bit
Ratings:	
Energy Range	40-150kVp
Maximum Entrance Dose (Linear Output Range)	35µGy
Interface:	
Data Output	00BASE-T)
Command Control Ethernet (100	00BASE-T)
X-ray Synchronization Control	External

Product Components and Interface:



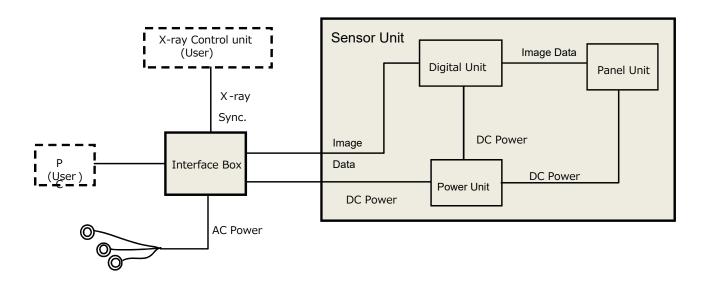
Note:

Do not disconnect Ethernet connection while DC24V is operating and supplying to Sensor Unit.

LED Display Mode:

Name	Status	
PWR	Turn on when power on	
LAN	Turn on when FPI system can communicate with Ethernet	

Image Acquisition Communication Block Diagram:



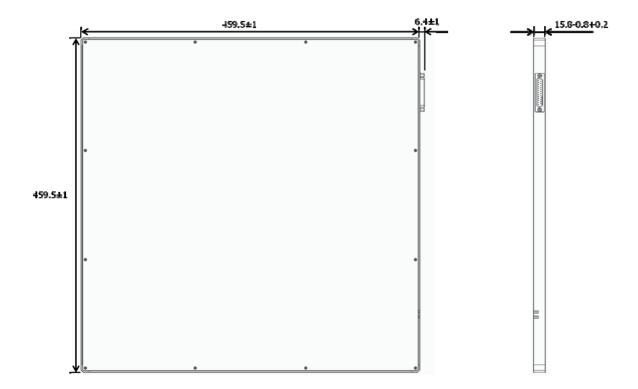
Communication Availability:

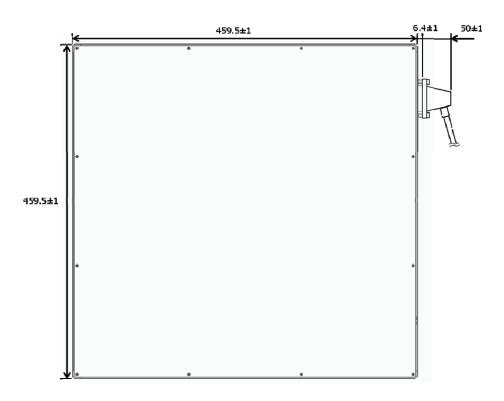
Signal Name	Туре	Ethernet Command Control (PC)	D-Sub Signal Control (X-ray Controller)
EXP_REQ	INPUT	OK	OK
EXP_OK	OUTPUT	N.A	OK

DIMENSIONAL OUTLINE

(Flat Panel Sensor Unit (X-ray input plate))

Unit: mm

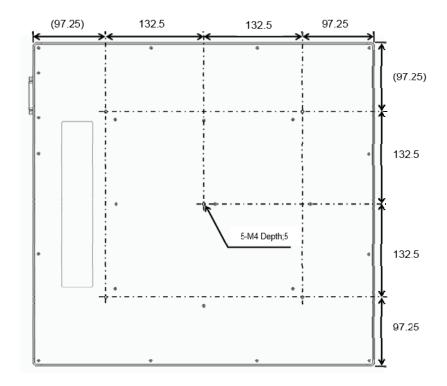




DIMENSIONAL OUTLINE

(Flat Panel Sensor Unit (installation surface))

Unit: mm



DIMENSIONAL OUTLINE

(Interface Box)

Unit: mm

