X-Ray FLAT PANEL IMAGER
FDX3334RF
Active Area: 330 (H) × 343 (V) mm
(13.0″ × 13.5″)

FEATURING:

- **High MTF**
- **High Sensitivity**
- **High Contrast**
- **Real Time Image Processing**

– High Resolution and High DQE CsI Phosphor Screen –

CETD has long experience to develop and manufacture fine and thick pillar structure of CsI phosphor screen with high resolution 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:

FDX3334RF is an X-Ray FLAT PANEL IMAGER for fluoroscopic and 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.

COMPONENTS AND CHARACTERISTICS

Sensor Unit:

Sensor Protection Plate ..... Carbon Fiber Plate
Cooling Method ..... Air Cooling Fan
Power Consumption 52W
Overall Dimensions ..... 435 × 426 × 106mm (W(H) × D(V) × H)
Weight 20kg

Control Unit:

Image Output ..... 16bit Digital Output LC-Duplex Optical Fiber Connector
Command Control ..... Ethernet 100BASE-T TCP/IP Socket RJ-45 Connector
X-ray Synchronization Control ..... D-Sub 9pin Connector
Overall Dimensions ..... 264 × 201 × 60mm (W(H) × D(V) × H)
Weight ..... Approx. 3kg

Power Unit:

Input AC100-240V, 1-Phase 50/60Hz, 100VA
Output DC24V 4A
Overall Dimensions ..... 264 × 201 × 60mm (W(H) × D(V) × H)
Weight ..... Approx. 3kg

Environmental:

	Under delivery and stock	Under operating
Temperature	-15 ~ 55℃	+10 ~ 35℃
Humidity	10 ~ 90% (Non-Condensing)	30 ~ 85% (Non-Condensing)
Pressure	50 ~ 106kPa	70 ~ 106kPa

Accessories:

Optical Cables:
- Sensor Unit - Control Unit ..... 1 (SC Duplex-LC Duplex Optical Cable)
- Control Unit - User Equipment ..... 1 (LC Duplex Optical Cable)

Cables:
- DC Cable (Sensor Unit - Control Unit) 1
- DC Cable (Control Unit - Power Unit) 1
- AC Cable 1
- GND Cable (for Sensor Unit)..... 1
- GND Cable (for Control Unit) 1
- GND Cable (for Power Unit)..... 1

Spare fuse (250V 6.3A) 2

MAIN CHARACTERISTICS

Image Format:

X-ray Conversion Layer ..... Cesium Iodide (CsI) with Amorphous Silicon (a-Si) Photodiode
Active Area ..... 330(H) × 343(V)mm (13.0 × 13.5inch)
Pixel Matrix ..... 2304(H) × 2400(V)
Pixel Pitch 143μm
Pixel Read Out ..... Non-Binning (1×1) / Binning (2×2)
Partial Read Out ..... 2400 / 1536 / 1024 / 512line read out
Maximum Frame Rate ..... 30frame/sec (Binning, 1200line scan)
15frame/sec (Non-Binning, 2400line scan)
60frame/sec (Binning 512line scan)
60frame/sec (Non-Binning, 512line scan)
(Refer “Image Acquisition Mode Table”)
Maximum Entrance Dose (Low Gain) ..... 4mR / frame

Performance:

Limiting Resolution ..... 3.5Lp/mm typ. (15frame/sec, Non-Binning)
1.75Lp/mm typ. (30frame/sec, Binning)
MTF (2.0 Lp/mm, 70 kVp, Non-Binning) ..... 33% or more
DQE (Non-Binning) ..... 70% or more
Lag (1 frame, 15 frame/sec, Non-Binning) ..... 10% or less
A/D Conversion 14bit

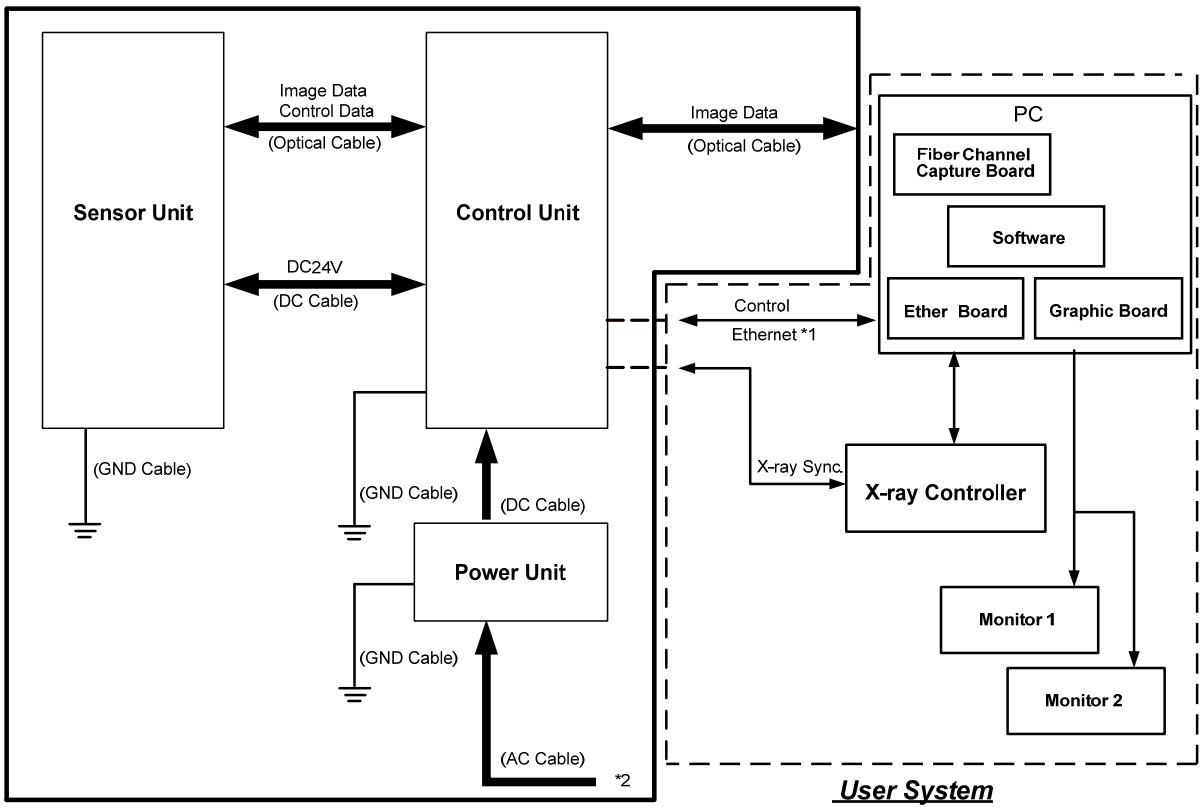
Absolute Maximum Rating:

X-ray Tube Voltage for fluoroscopy 125kVp
Minimum Distance between X-ray Entrance Plane and Focal Spot 73cm
Maximum Input X-ray Dose Rate ..... 8.73×10^{-3} Gy/min [1R/min]

Interface:

Optical Image Output；
16bit Digital Data Output ..... LC-Duplex Optical fiber
Command Control ..... Ethernet 100BASE-TX
X-ray Synchronization Control ..... Signal level, opt-isolated

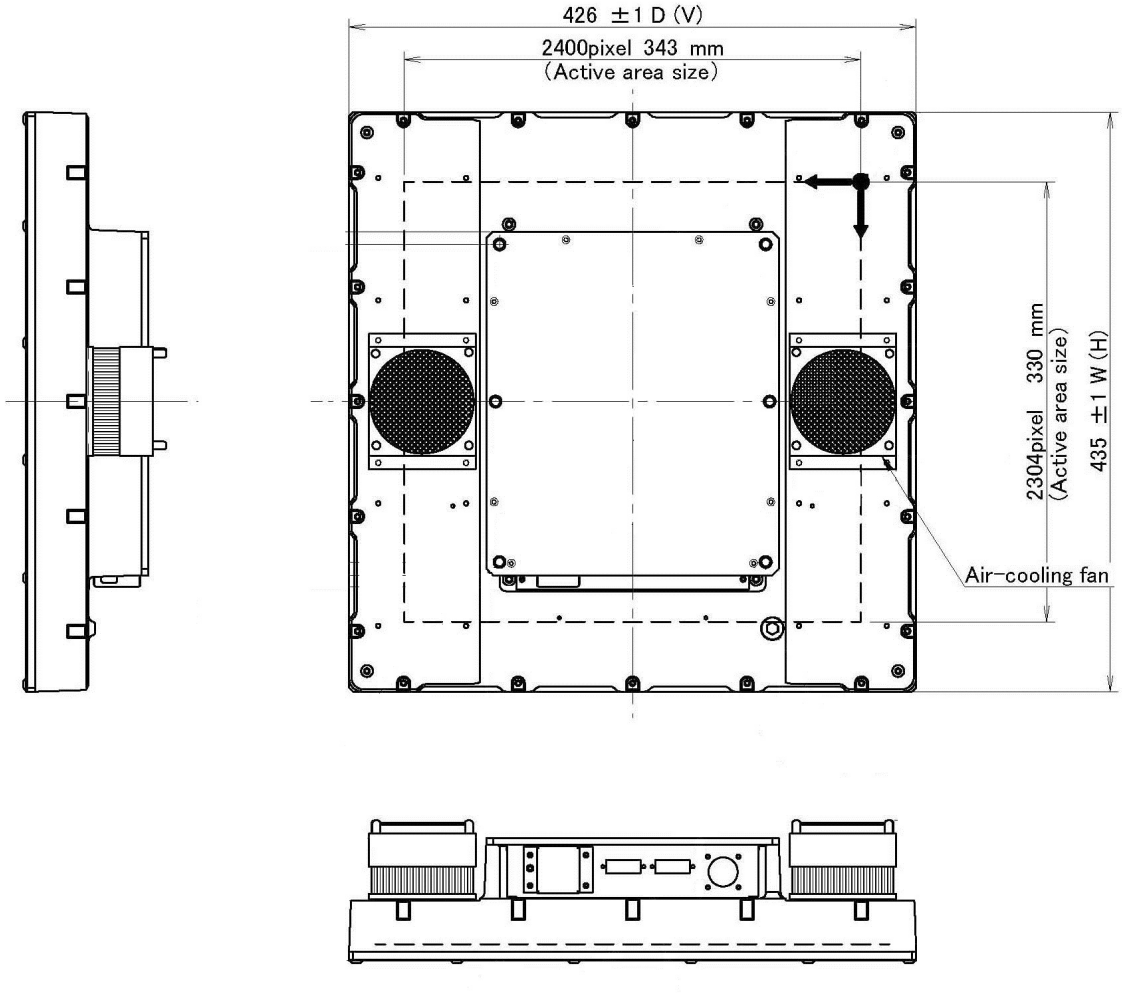
PRODUCT COMPONENTS AND INTERFACE



*1 Ethernet Cross-over cable
*2 Input Voltage AC100-240V

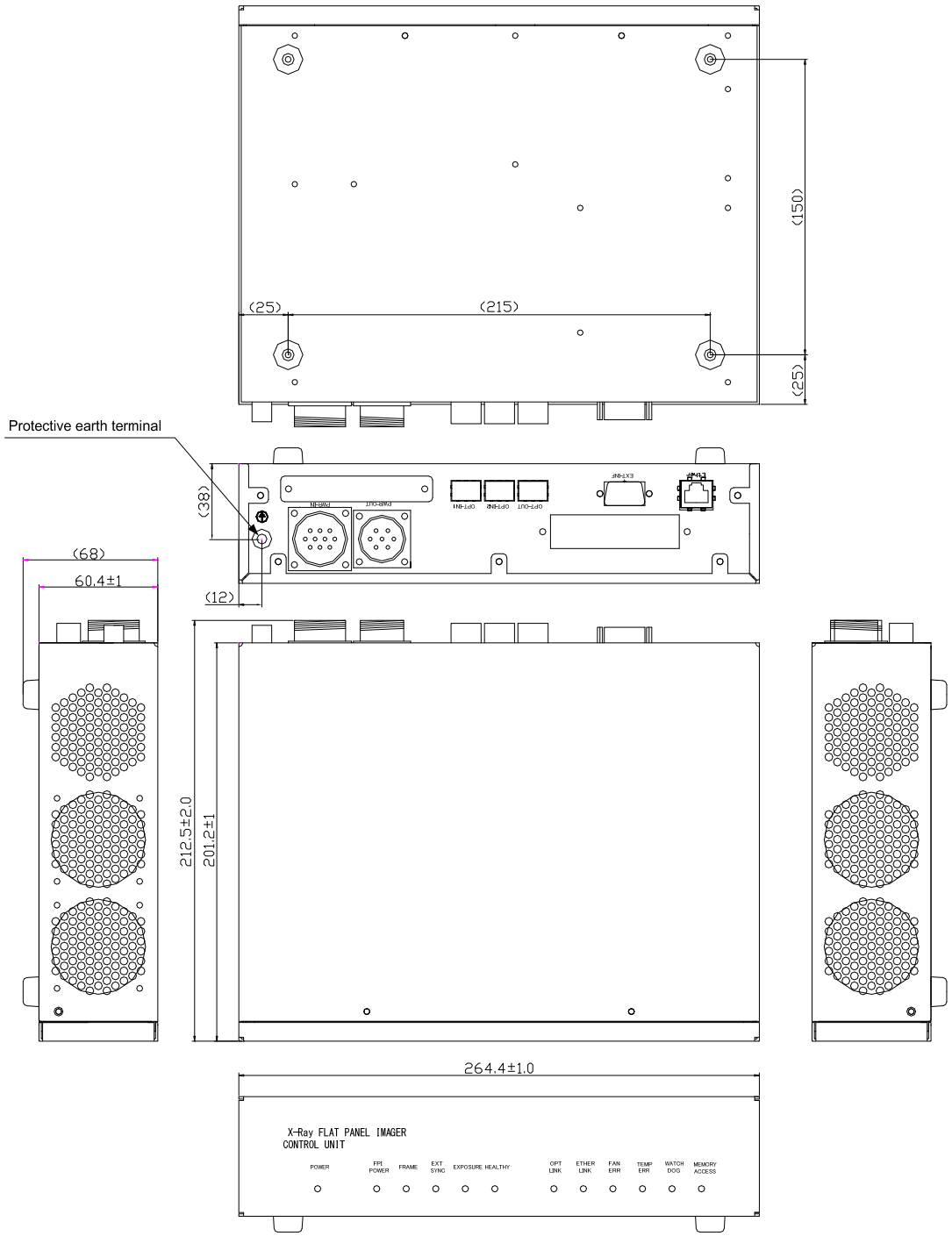
DIMENSIONAL OUTLINE
(Sensor Unit)

Unit: mm



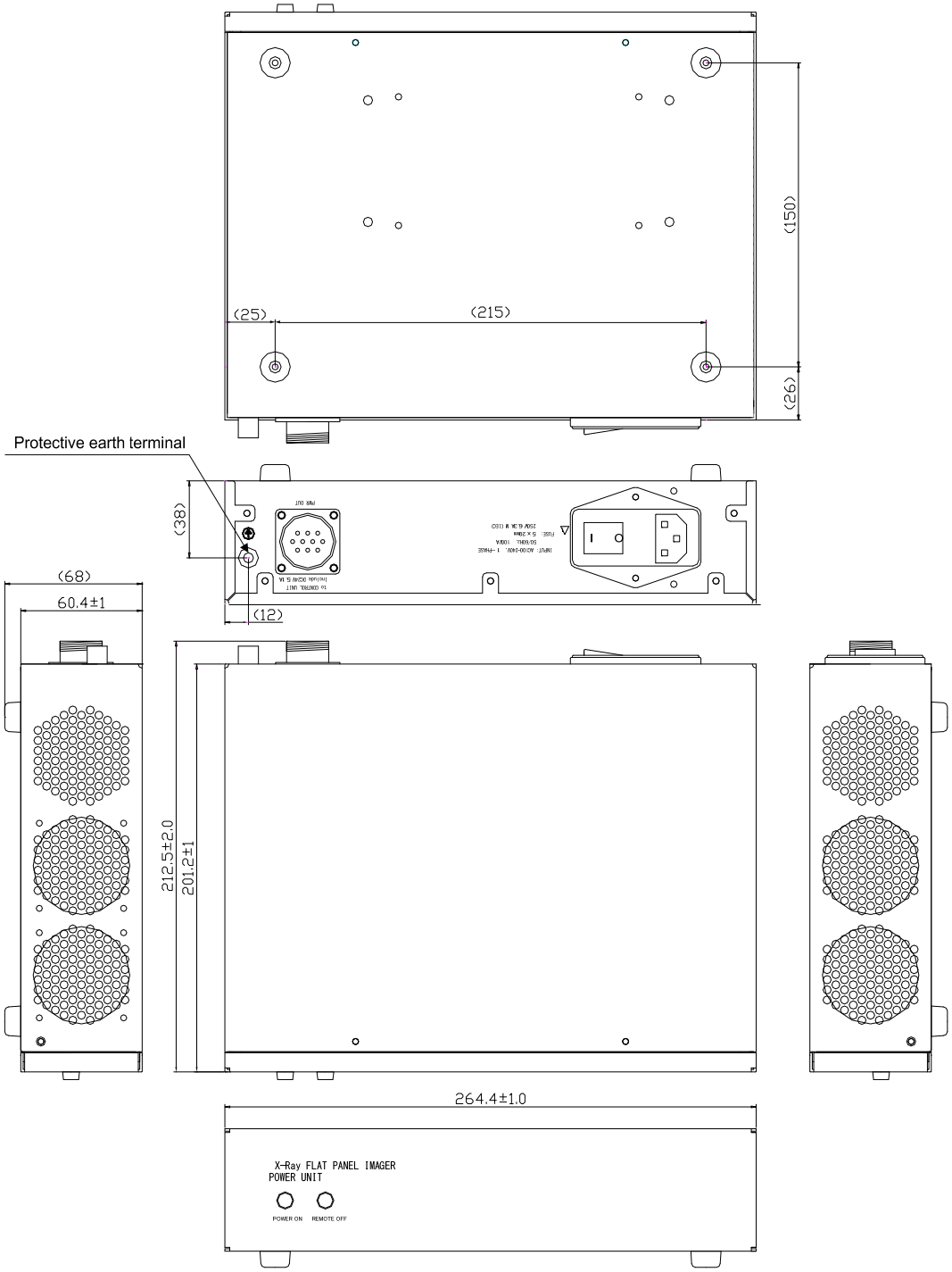
DIMENSIONAL OUTLINE
(Control Unit)

Unit: mm



DIMENSIONAL OUTLINE
(Power Unit)

Unit: mm



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