X-Ray FLAT PANEL IMAGER
FDX4343RPW
Active Area: 426 (H) × 425 (V) mm (16.7″ × 16.8″)

FEATURING:

- **Excellent Sensitivity & Resolution**
- **Excellent Image Quality**
- **Excellent Reliability**

– Excellent Sensitivity & Resolution –

- Advanced and proven fine structured CsI:Tl and direct vapor deposition technology deliver higher sensitivity and resolution.
- Reflection coating on CsI:Tl screen enables excellent Detective Quantum Efficiency (DQE) and high Modulation Transfer Function (MTF).
- Lower radiation dose beneficial to patients as a result of excellent image quality. The FDX4343RPW offers a new level of functionality and reliability for system manufacturers.

– Excellent Reliability –

- Excellent durability by using CsI:Tl screen direct vapor deposition method.
- The structure is highly reliable and protected from degradation by use of an unique moisture-proof sealing method for the CsI:Tl screen

INTENDED USE:

FDX4343RPW 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.

COMPONENTS AND CHARACTERISTICS

Sensor Unit:

Sensor Protection Plate ..... Carbon Fiber Plate
Cooling ..... Natural Air Cooling
Input ..... DC16V (from Power Supply Box)
Power Consumption ..... Maximum 15W
Maximum 23W (with Battery Charging)
Outline Dimensions ..... 460 × 460 × 15mm (W(H) × D(V) × (H))
Weight 3.7kg

Power Supply: DEPS9601

Input AC100-240V 1.0A
50/60Hz
Output DC16V 3A
Outline Dimensions ..... 155 × 208 × 65mm (W(H) × D(V) × (H))
Weight 1.2kg

Main Cable: MI39-01545A

Cable length 7m
Cable Diameter ..... ϕ8~9mm

Li-ion battery: SDB-3S1PA

Nominal Capacity 3400mAh
Nominal Voltage 11V
Outline Dimensions ..... 245 × 130 × 8.5mm (W(H) × D(V) × (H))
Weight 385g

Battery Recharger: DEPS-9606

Outline Dimensions ..... 281.6 × 206.6 × 21.2mm (W(H) × D(V) × (H))
Weight 500g

AC Adapter: EPS-F007A (Model No.: SPU100-107)

Outline Dimensions ..... 76 × 146 × 43mm (W(H) × D(V) × (H))
Cable Length 430mm
Input AC100-240V 1.2-0.5A
47-63Hz
Output DC19V 5.26A
Weight Aprox.510g

Note: This product component does not contain AC cable.
Prepare the suitable AC cables by X-ray system manufacturer.

Environmental:

Under operating

Temperature ..... +10 ~ 35℃

Humidity ..... 20 ~ 75%

(Non-Condensing)

Pressure ..... 70 ~ 106kPa

Under delivery and stock

Temperature ..... -15 ~55℃

Humidity ..... 10 ~ 95%

(Non-Condensing)

Pressure ..... 50 ~ 106kPa

Note:

(1) Storing a Li-ion battery at high temperatures will accelerate its deterioration.
When storing a Li-ion battery for a long time, be careful about storage temperature.
Recommendation temperature for long time storage: 10 ~ 35ºC

(2) The battery should be sufficiently acclimatized to the environment where it will be used (10 ~ 35ºC) before use.

ACCESSORIES

CD:

CD (Defect map, SDK) 1pcs

MAIN CHARACTERISTICS

Image Format:

X-ray Conversion Layer ..... Cesium Iodide (CsI) with Amorphous Silicon (a-Si) Photodiode
Active Area ..... 425(H) × 426(V)mm
Pixel Matrix ..... 3036(H) × 3040(V)
Pixel Pitch 140μm
Cycle Time ..... Shot to Shot 12sec (WLAN)
Shot to Shot 9sec (Ethernet)

(Cycle time is the time to complete image transfer from the X-ray Exposure. Cycle time does not include image processing time. The image processing time is determined by the specifications of the image processing unit.)

Performance:

Limiting Resolution ..... 3.7Lp/mm typ.
MTF (2.0Lp/mm, 70kVp, 1×1) ..... 36% typ.
DQE (DQE(0), Quantum - Limited) ..... > 70%
A/D Conversion 16bit

Functions:

Auto Exposure Detection (AED)..... Available in Tethered Mode and Wireless Mode
Double Exposure..... Available in Tethered Mode

Ratings:

Energy Range 40-150kVp
Maximum Entrance Dose (Linear Output Range)..... 4mR

Interface:

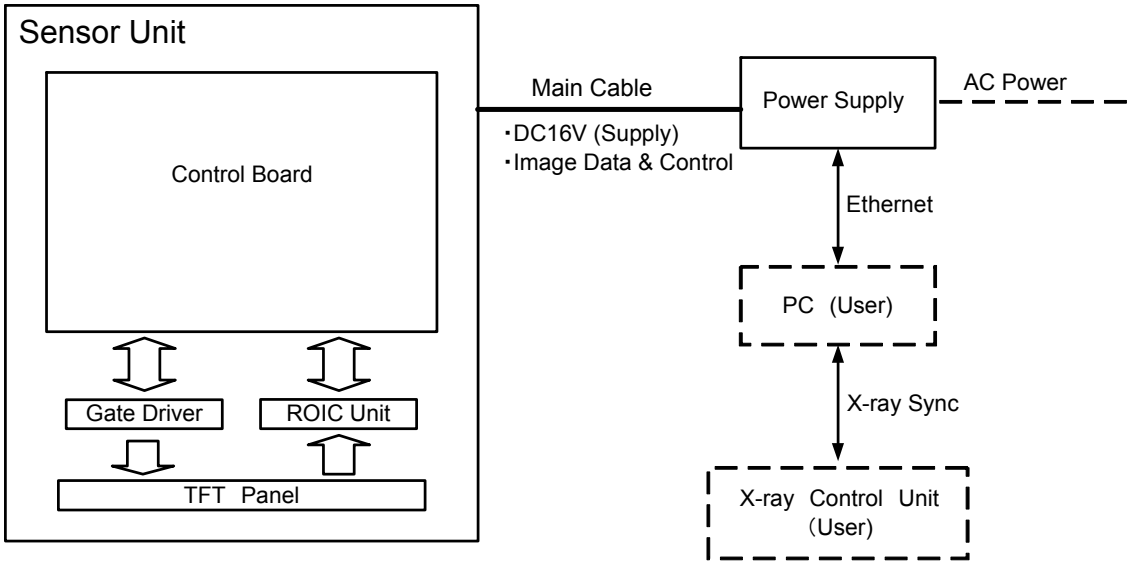
Sensor Unit:
UNIT Interface ..... Connect to power Supply
Power Supply:
Unit Interface ..... Connect to Sensor Unit
Data Output ..... 16bit Digital Output Ethernet (1000BASE-T)
Command Control ..... Ethernet (1000BASE-T)
Power Input AC100-240V 1A 50/60Hz
WLAN IEEE802.11a/b/g/n
2.4GHz/5GHz

Image Acquisition Exposure period:

X-ray period (ms) ..... Standard: 500 (500, 1000, 1500, 2000, 2500, 3000, 3500, 4000)

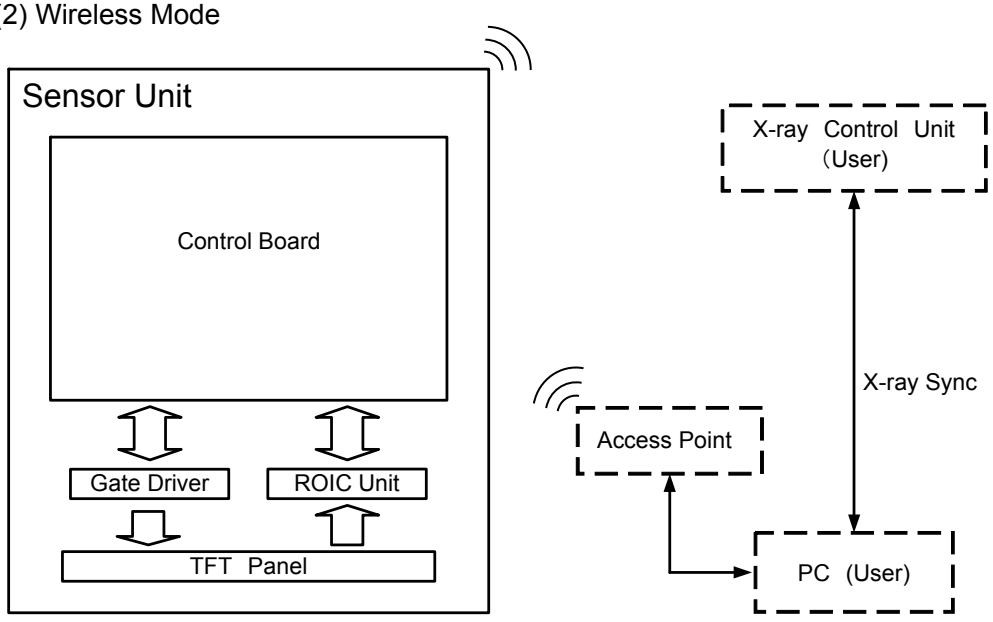
Product Components and Interface:

(1) Tethered Mode



Note: Do not disconnect Ethernet connection while DC16V is operating and supplying to Sensor Unit.

(2) Wireless Mode

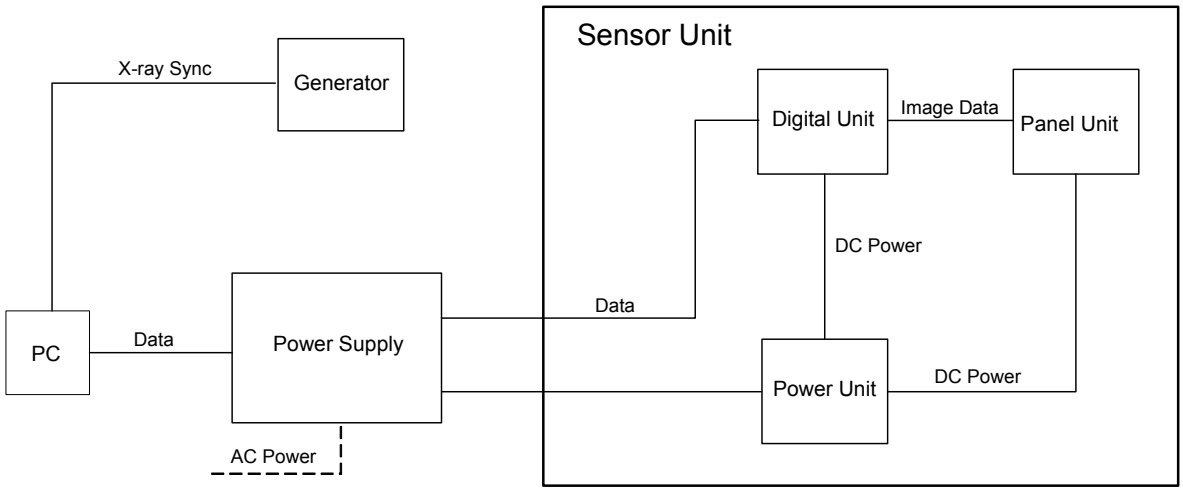


LED Display Mode:

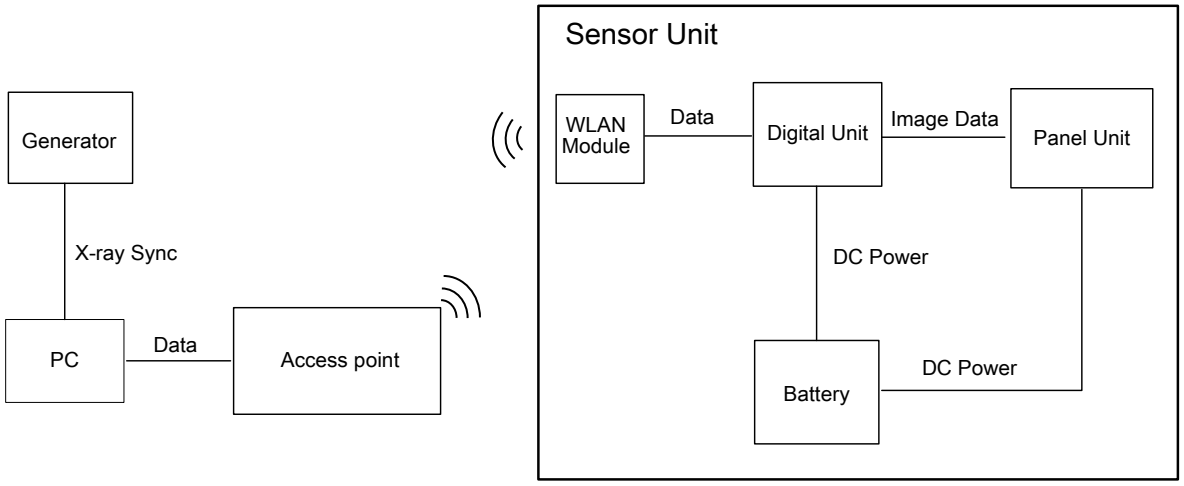
Name	Status
PWR	Turn on when power on
BUSY	Flash on when internal processing
LINK	Turn on when connect Green (WLAN) / Blue (LAN)

Image Acquisition Communication Block Diagram:

(1) Tethered Mode



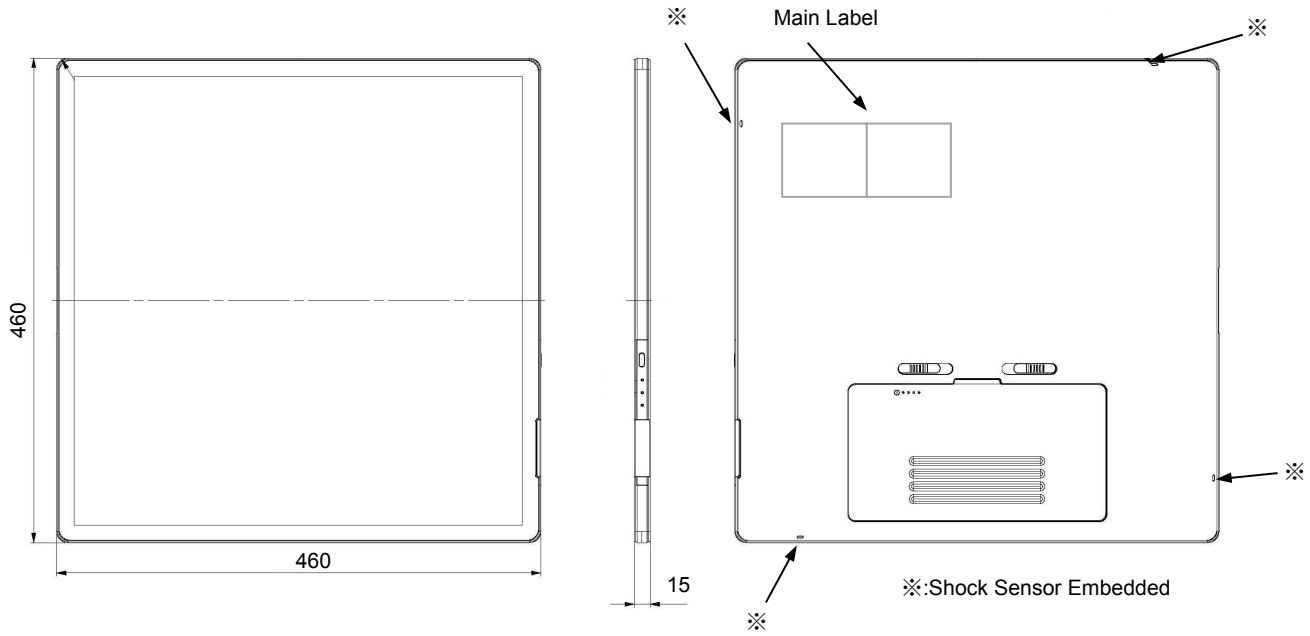
(2) Wireless Mode



DIMENSIONAL OUTLINE

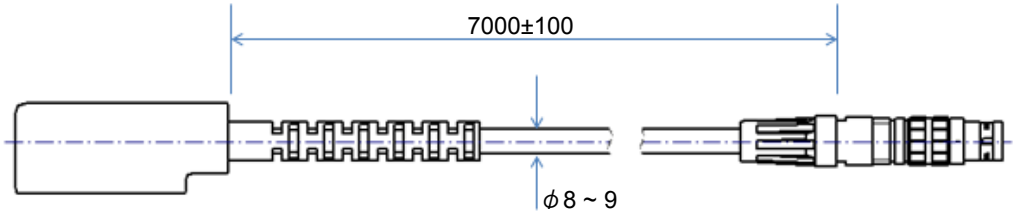
(Sensor Unit)

Unit: mm



(Main Cable)

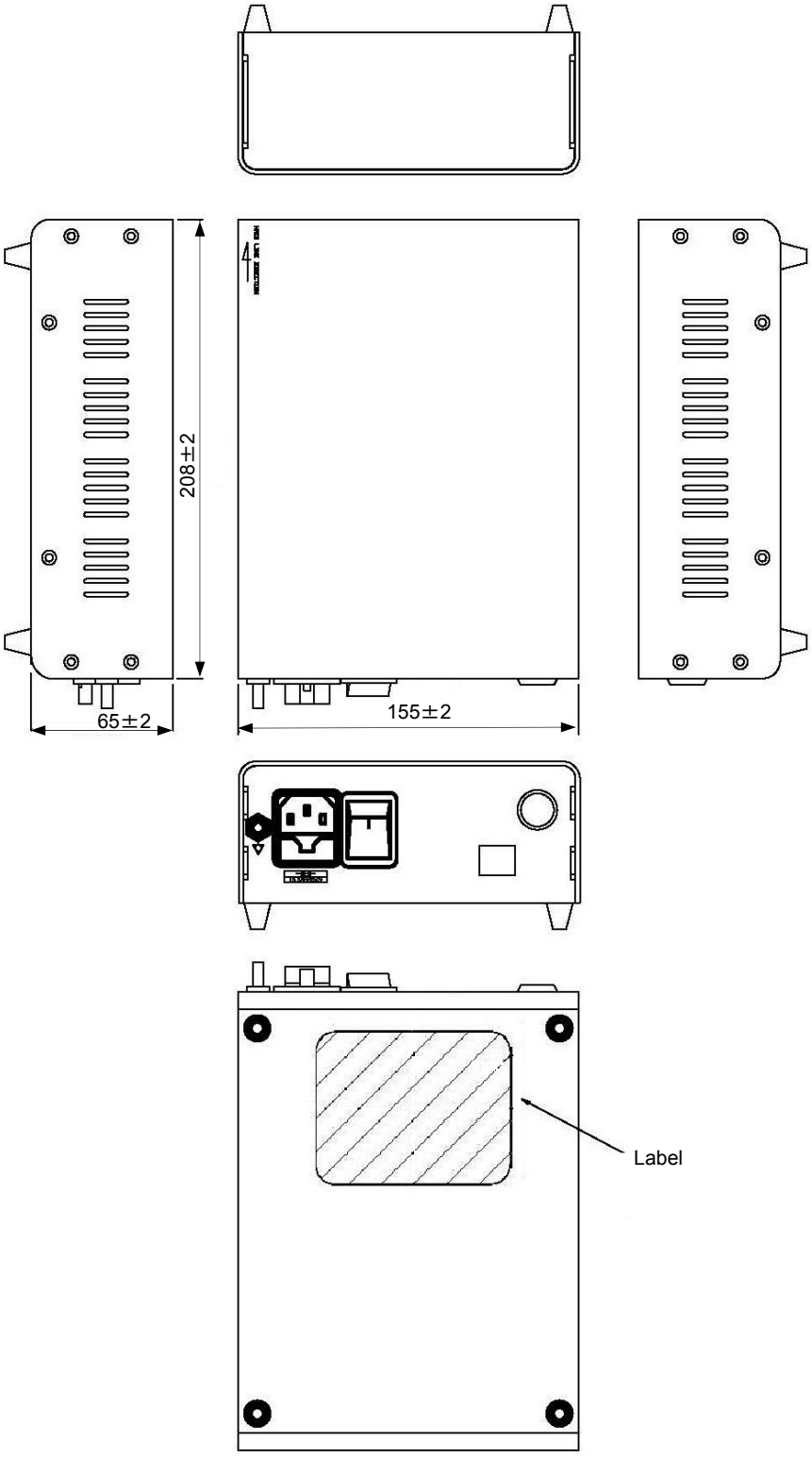
Unit: mm



DIMENSIONAL OUTLINE

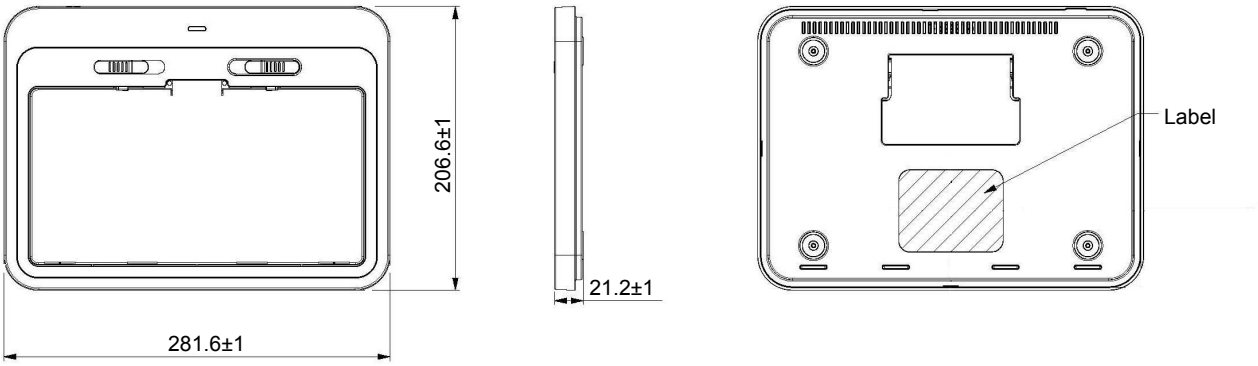
(Power Supply)

Unit: mm



DIMENSIONAL OUTLINE
(Battery Recharger)

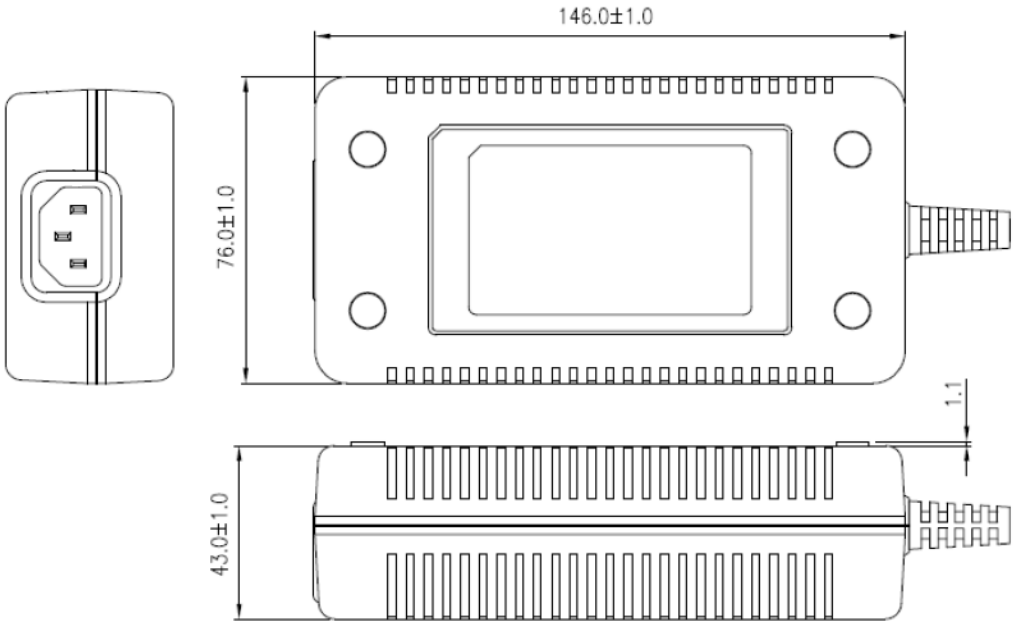
Unit: mm



DIMENSIONAL OUTLINE

(AC Adapter)

Unit: mm



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