

**X-Ray FLAT PANEL IMAGER  
FDX2530RPW**

**Active Area: 245 (H) × 295 (V) mm  
(9.6" × 11.6" )**

**FEATURING:**

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

**– Excellent Sensitivity & Resolution –**

- Advanced and proven fine structured CsI:TI and direct vapor deposition technology deliver higher sensitivity and resolution.
- Reflection coating on CsI:TI 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 FDX2530RPW offers a new level of functionality and reliability for system manufacturers.

**– Excellent Reliability –**

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

**INTENDED USE:**

FDX2530RPW 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)
Power Consumption .....	Maximum 10W
	Maximum 18W (with Battery Charging)
Outline Dimensions .....	281.5 × 332.5 × 15mm (W(H) × D(V) × (H))
Weight .....	Approx. 1.7kg

### Power Supply: DEPS9601

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

### Main Cable: MI39-01545A

Cable length .....	7m
Cable Diameter .....	φ 8 ~ 9mm

### Li-ion Battery: EGI-D3S1P

Nominal Capacity .....	2300mAh
Nominal Voltage .....	11.55V
Outline Dimensions .....	133 × 109 × 7.8mm (W(H) × D(V) × (H))
Weight .....	Approx. 180g

### Battery Adapter: MI59-01148A

Outline Dimensions .....	245 × 130 × 8.5mm (W(H) × D(V) × (H))
Weight .....	Approx. 120 g

### Battery Recharger: DEPS-9606

Outline Dimensions .....	282 × 207 × 21mm (W(H) × D(V) × (H))
Weight .....	Approx. 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 .....	Approx. 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°C

Humidity ..... 20 ~ 75%

(Non-Condensing)

Pressure ..... 70 ~ 106kPa

## Under delivery and stock

Temperature ..... -15 ~ 55°C

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

**Accessories:**

CD (Defect map, SDK) ..... 1pcs

## MAIN CHARACTERISTICS

### Image Format:

X-ray Conversion Layer .....	Cesium Iodide (CsI) with Amorphous Silicon (a-Si) Photodiode
Active Area .....	245(H) × 295(V) mm
Pixel Matrix .....	1750(H) × 2108(V)
Pixel Pitch .....	140μm
Cycle Time .....	Shot to Shot 10sec (WLAN: 5GHz) Shot to Shot 8sec (Ethernet: 1Gbps)

(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 (2.0 Lp/mm, 70 kVp, 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:

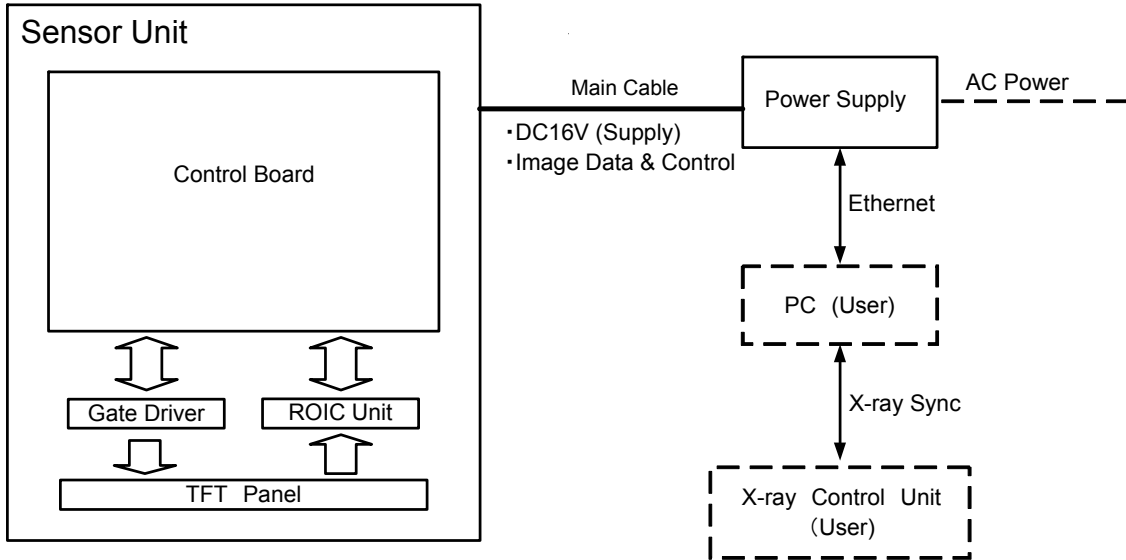
Sensor Unit	
Unit Interface .....	Connect to power Supply
Power Supply	
Unit Interface .....	Connect to Sensor Unit
Data Output .....	16bit Digital Output Ethernet (1000BASE-T)
Command Control .....	Ethernet (1000BASE-T)
Power Input .....	AC100-240V 1A 50/60Hz
WLAN .....	IEEE802.11a/b/g/n 2.4GHz/5GHz

### Image Acquisition Exposure period:

X-ray period (ms) .....	Standard: 500 (500, 1000, 1500, 2000, 2500, 3000, 3500, 4000)
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### Product Components and Interface

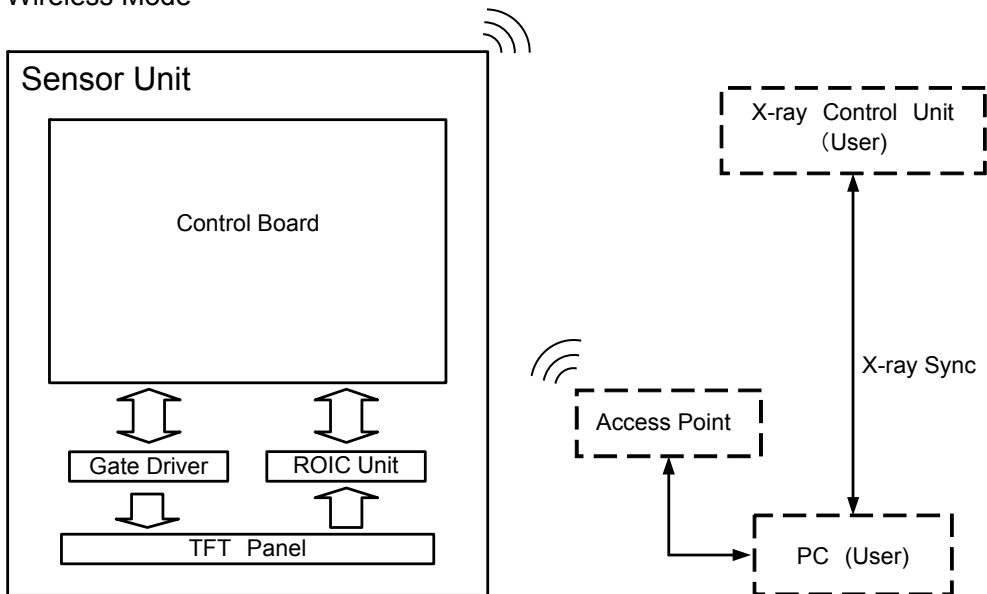
(1) Tethered Mode



NOTE:

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

(2) Wireless Mode

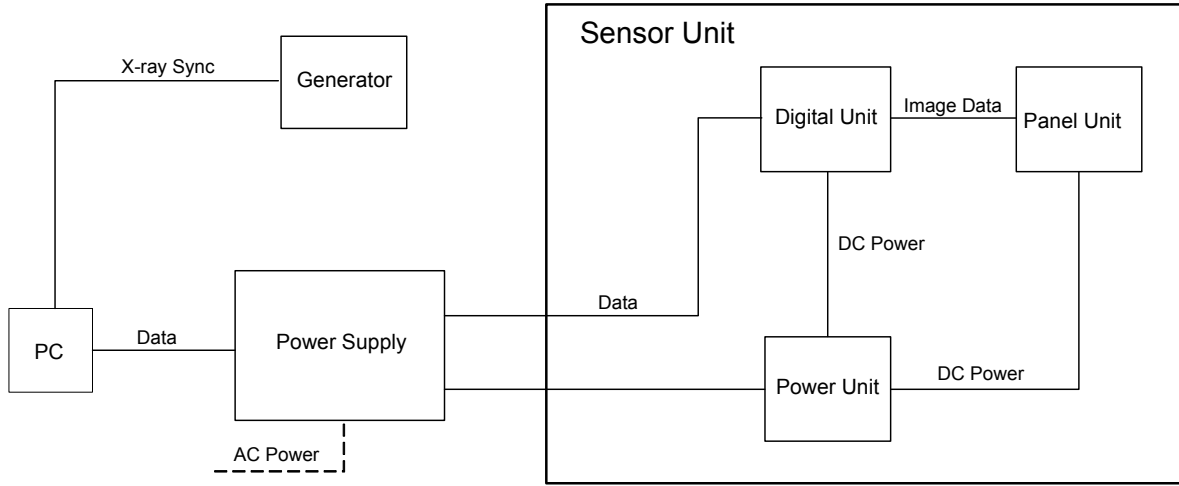


LED Display Mode:

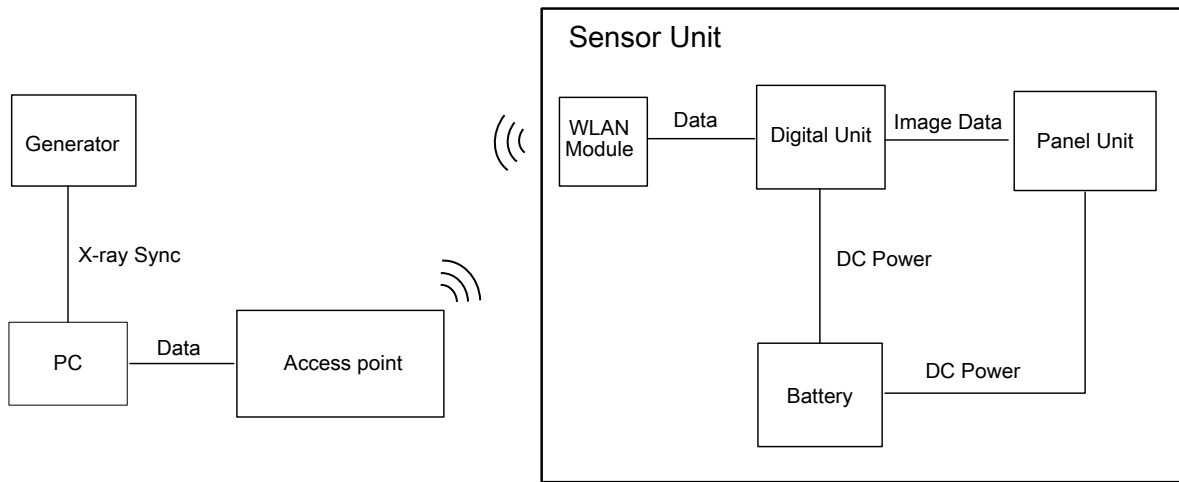
Name	Status
PWR	Turn on when power on
BUSY	Flash on when internal processing
LINK	Turn on when connect Green (WLAN) / Blue (LAN)

## Image Acquisition Communication Block Diagram

### (1) Tethered Mode

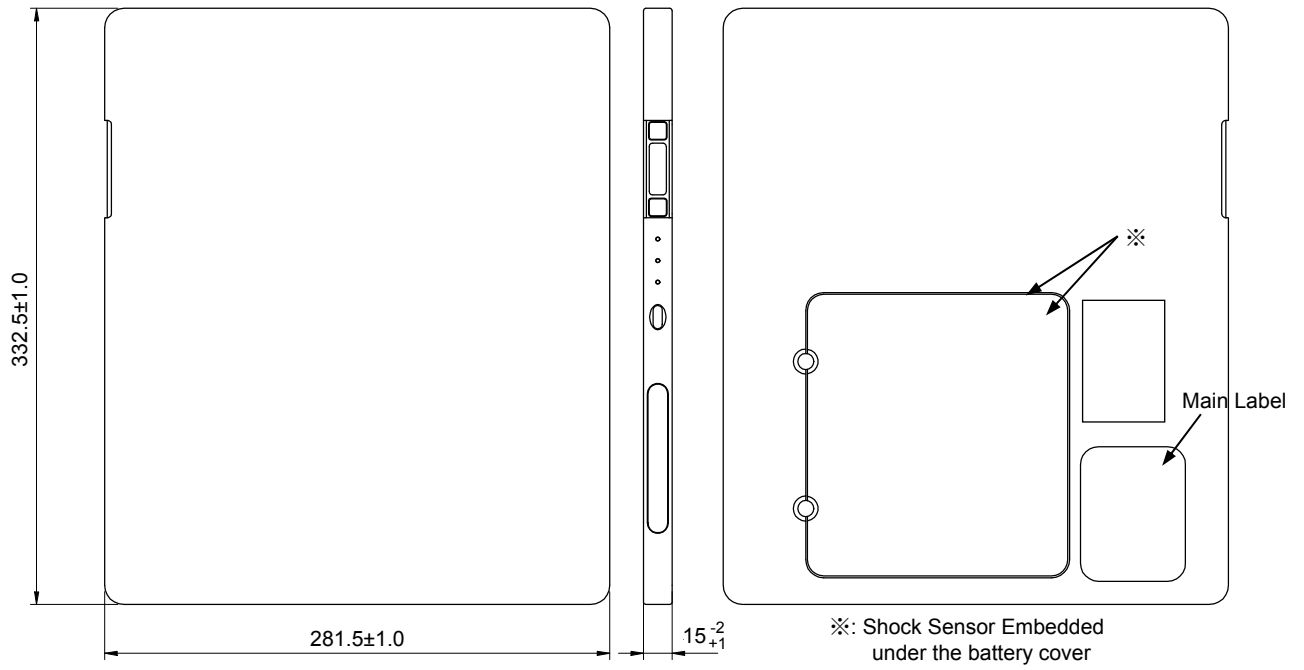


### (2) Wireless Mode



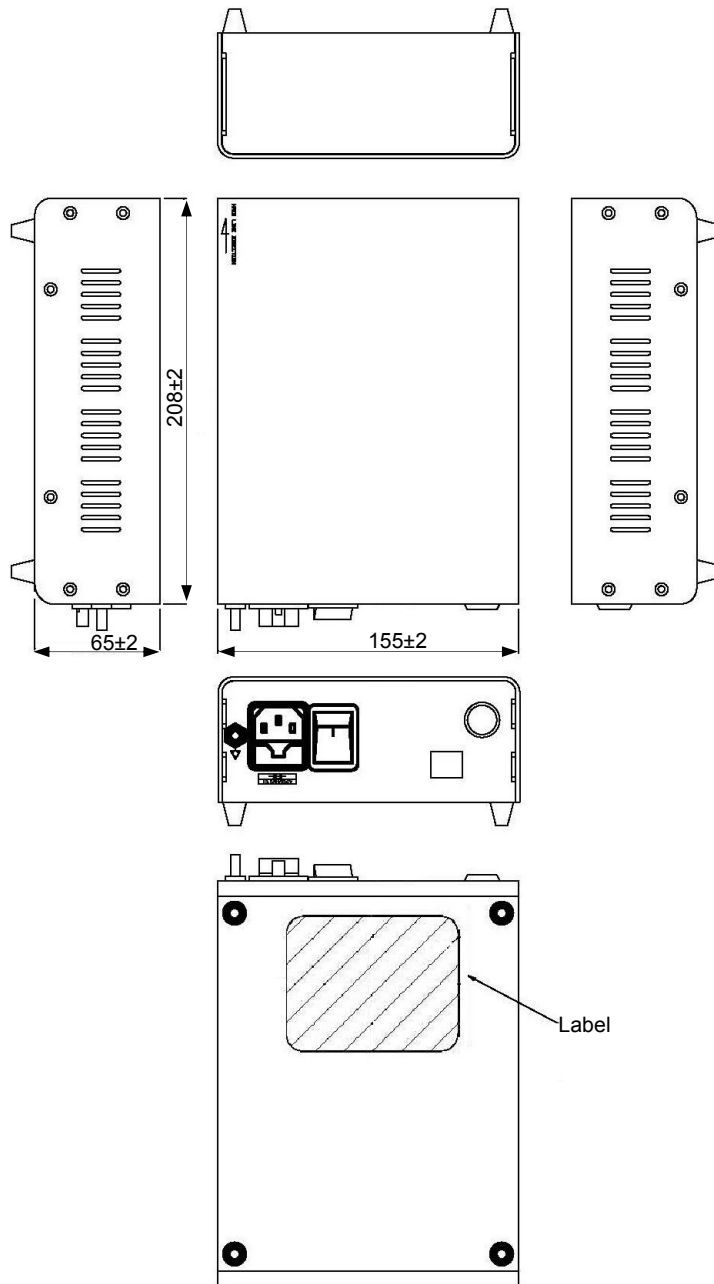
**DIMENSIONAL OUTLINE**  
(Sensor Unit)

Unit: mm



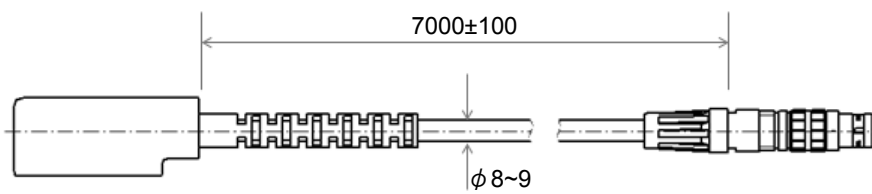
**DIMENSIONAL OUTLINE  
(Power Supply)**

Unit: mm



**(Main Cable)**

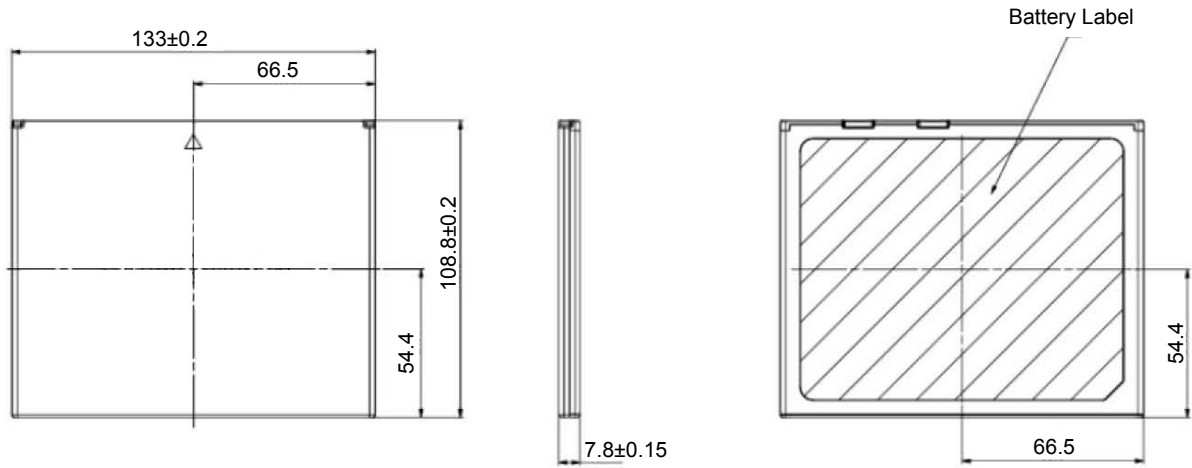
Unit: mm





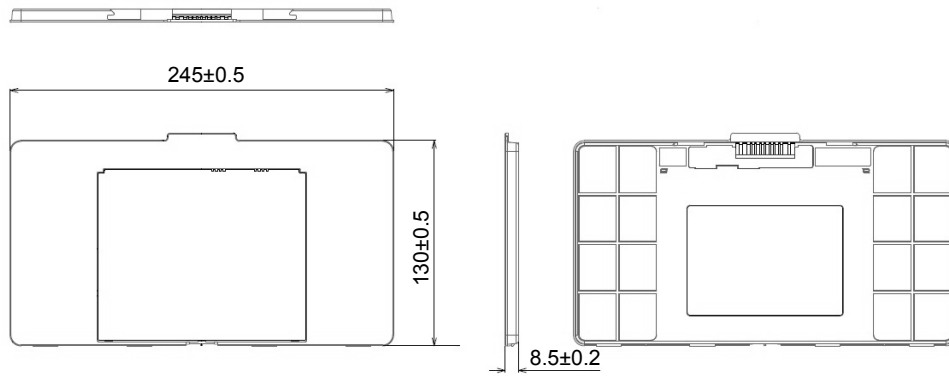
**DIMENSIONAL OUTLINE  
(Li-ion Battery)**

Unit: mm



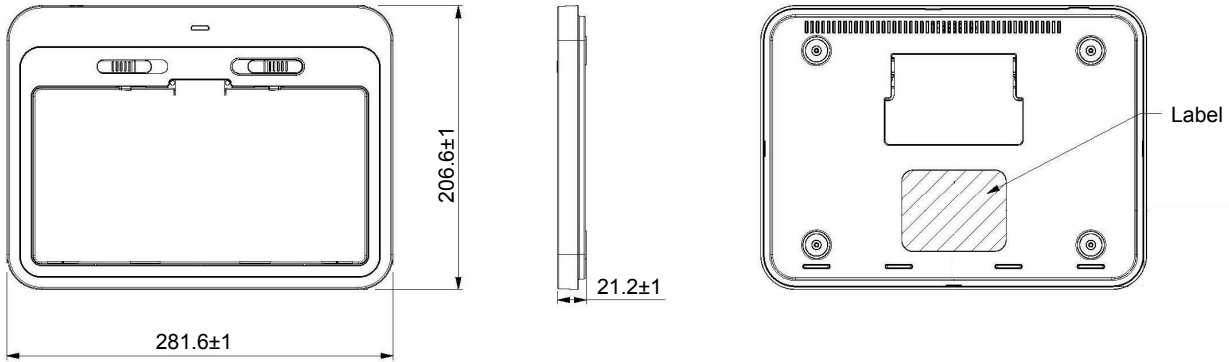
**(Battery Adapter)**

Unit: mm



**DIMENSIONAL OUTLINE  
(Battery Recharger)**

Unit: mm



**(AC Adapter)**

Unit: mm

