

# Soft X-ray Ionizer

## Electrostatic Total Solution

### SXN-05U



SXN-05U is the Power controller all-in-one type Soft X-ray ionizer that has obtained UL certification. Suitable Ionizer for super clean process as there is no dust, electromagnetic wave, ozone. Power controller is built in and slim size makes it useful to be installed in narrow, small space.

#### ※ What is a UL certified product?

This product has been certified by UL, an official American certification organization. UL is the highest-ranking U.S. certification organization that develops and awards certification for variety of standards for product performance and safety.

### Key Features

- UL certified product (starting sales in January 2024)
- Slim size is useful to be installed in narrow, small space
- All-in-one type (Power supply built-in)
- Applicable for ESD sensitive production line or semiconductor assembly
- Able to remove electrostatic from tiny, adjacent object.



• SXN-05U



• SXN-TR2 (Timer Reader) \_Option

#### ※ Timer Reader

It displays the operation time of SXN-05U

### Specifications

Parameter	Description / Value	Remarks
Ion Generation Method	Soft X-ray	
Source	Soft X-ray Tube	
Tube Voltage	4.9kV	
Tube Current	400uA	
Cooling Method	Natural Air Cooling	
Mounting Method	Bolt Mounting with Bracket	
Power Consumption	8W	
Current Consumption	Max. 36mA	AC 220V
Operation Circumstance	0°C ~ +50°C(32°F ~ 122°F), 35% ~ 85% RH	
Weight	0.4Kg	
Input Power	AC 100~240V, 50/60Hz(Adaptor Input)	DC 12V, 1A Adapter
Alarm	Head Fail	
Warning	Life Time Over	
Remote / Interlock	Remote / Interlock On, Off Control	
Indicator	Alarm State, Over Time State	
Warranty	1 Year	

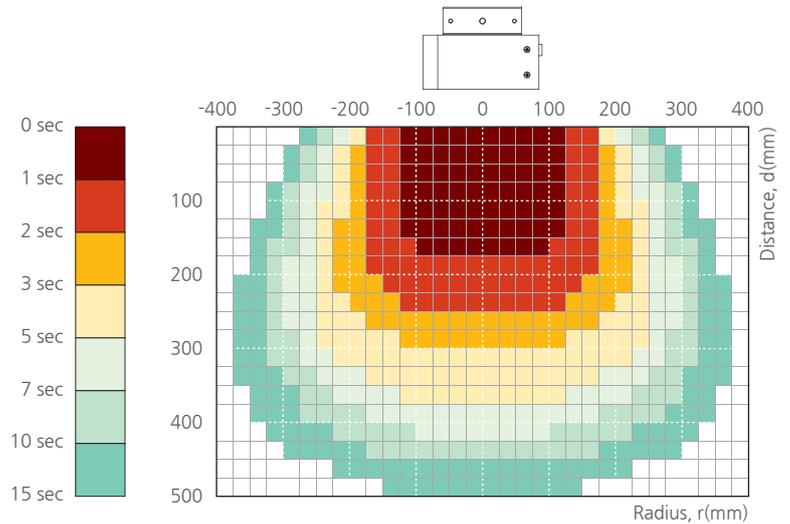
※ The appearance and specification of the product may be changed without prior notice for the improvement of the product.

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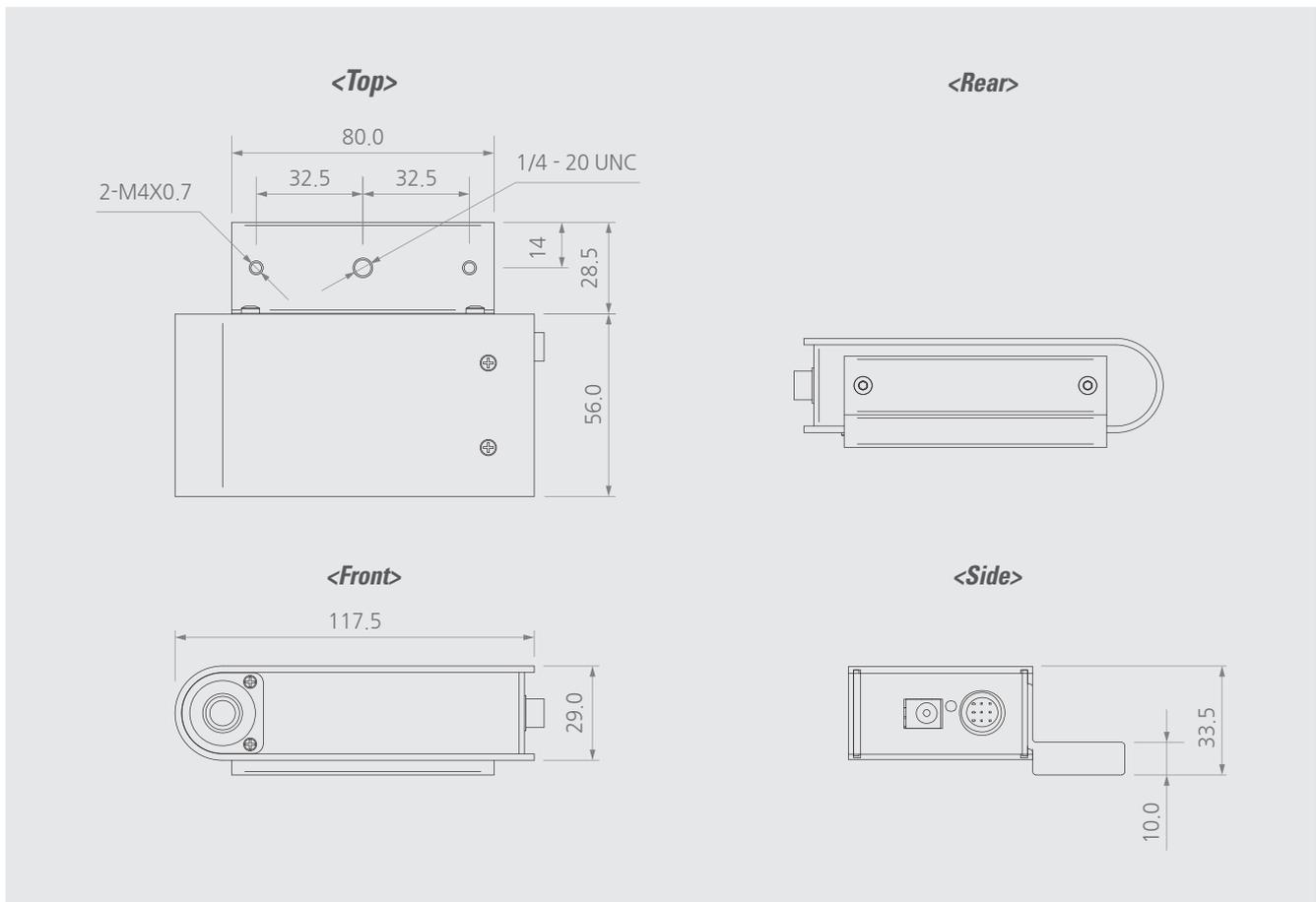
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## Performance

- Model : SXN-05U
- Decay Time :  $\pm 1,000V$  to  $\pm 100V$
- Temperature & Humidity : 24°C, 50%RH
- Charge Plate Capacitance : 20pF (150 X 150 mm)



## Dimensions



# Radiation Shielding methods

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## What are soft X-rays?

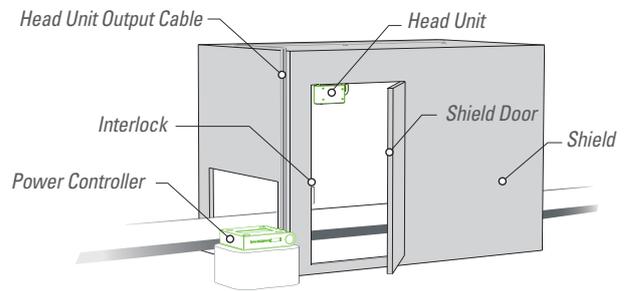
X-ray can be sorted according to its penetrating power, and an X-ray which has weaker penetrating power that can be absorbed easily in thin layer of the air is called the soft X-ray.

### Benefits of Soft X-ray ionizer

- Perfect Ion Balance ( $\pm 0V$ )
- No CDA (Clean Dry Air) required
- No dust generation
- No ozone (O3) generation
- High ion generation density
- Static electricity can be removed even under inert gas conditions such as N2 and Ar

## Shield installation compositions

- \* Please be careful to avoid direct exposure from the soft X-ray, since it may cause any skin problems. Therefore, you need to shield the area where X-ray emits in order to protect yourself.
- \* Please keep in mind that allowed leakage level for radiation dose is  $1\mu Sv/hr$  or under, So keep your area under the mentioned level all the time. (The leakage level of radiation dose might differ in countries)
- \* Please refer to the below chart for possible materials of shielding and its acceptable thickness.



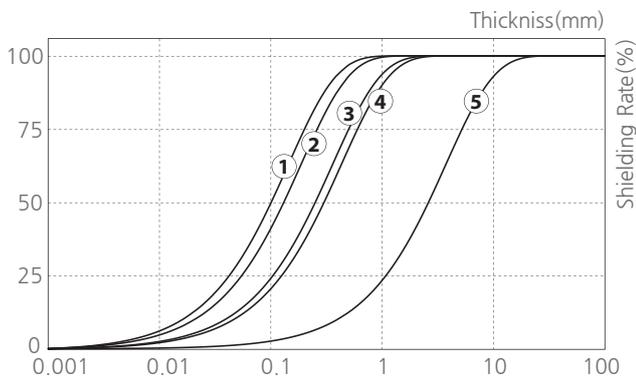
### Radiation

With radiation You can ionize some substance, Energy flow that radiated substance generates.

Radiation is neither accumulated nor contaminated. Due to uncertainty that human cannot judge by five senses, its danger is exaggerated than the actual. Radiation can be made intentionally, but also stays in the nature at all times just like other energy flow.

## Shielding methods

See the following graph for references. Select the ideal tickness and quality of shielding material.



No.	Shield Material	Thickness [mm]
①	SUS	Over 0.2
②	Aluminium	Over 0.25
③	Glass	Over 0.5
④	PVC	Over 0.6
⑤	Acrylic	Over 5.0

### ⚠ Warring

- \* Please shield the area where the customer is willing to install the soft X-ray device for safety issue.
- \* After shielding process, please connection to your own interlock system to operate the X-ray device On/Off when the door is opened/closed.