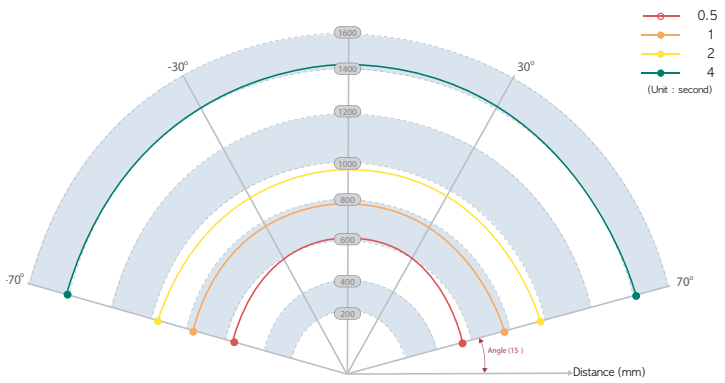
VSH-10E

10KV photo ionizer head.

• How does soft X-Ray ionizer work?

The principle behind soft x–ray static elimination is the use of air ionization of soft x–rays. Soft x–rays are easily absorbed within the atmosphere to generate positive and negative ions. These positive and negative ions move being pulled according to the electrical charge of the electrified object according to coulomb's force and ultimately meeting with the electrified charge to become neutralized. Different from corona discharge type, soft x –ray, a form of light, is used and is suitable for use in clean rooms as peeling of metal is caused by ion collisions due to discharge does not occur.

• Ionization Performance According To Distance



• Advantages of soft X Ray ionizer

Perfect ion balance
Unlike corona discharge electrodes that use high–pressure negative electrons, it equally generates positive and negative ions by using soft x ray, in turn enabling even ionization capacities unrelated to surface charge polarity.

No occurrence of metal dust
It is suitable for use in clean rooms highly sensitive to contamination as metal dusts are not generated as corona discharge electrodes are not used. It also prevents product defects caused by metal dust and requires minimal maintenance costs compared to corona discharge electrode.

Fast ionization speeds
Faster ionization speeds compared to corona discharge types based on high ionization density.

No occurrence of ozone
Unlike corona discharge that provides ozone (strong oxidizing gas) in atmospheric discharges, it has no atmospheric discharge, in turn preventing harmful health effects and corrosion of equipment.

• Specification

Tube voltage(DC)	11 kV
Beam angle	150°
Power input	DC 12V
MAX consumption	8 W
Weight	0.4 kg

• Environmental

Operation temperature	0~40°C
Storage temperature	-10°C~60°C
Operation humidity	Less than 60%
Storage humidity	Less than 85%

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Product Details

VSC-104E (Controller)

• Specification

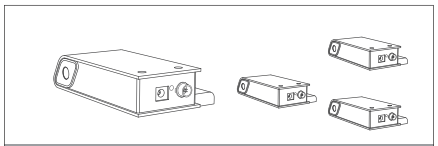
Photo ionizer controller. It can control maximum 4units of X-Ray head.

Power input	100~240V,50/60Hz
MAX consumption	56 W
Weight	0.65 kg
I/O Interface	Remote, Interlock, Fail, Overtime
Serial communication	RS-485
I/O Pin Connector	DSUB25P Female

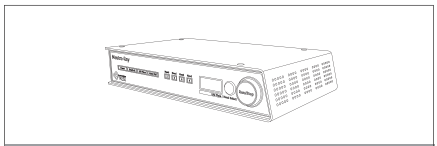
• Radiation Material

Shield material	Material thickness
Stainless steel	0.2
Aluminum	3
glass	5
PVC	4
Acrylic	46

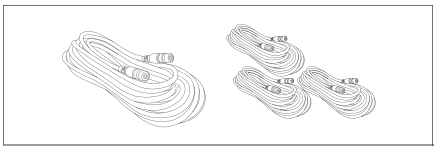
• Composition



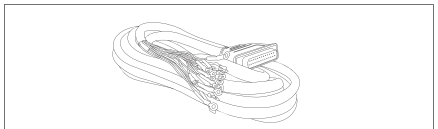
Head (VSH-10E) / Max 4ea



VSC-104E / 1ea

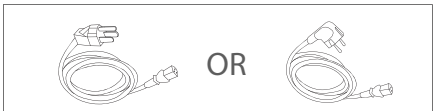


Output Cable (15m) / Max 4ea
Part #: E-OC-0015



D-Sub male Cable 25pin (5m) / 1ea
Part #: D-25P-0005

Fixing Bolt :1/4"X 15L / Max 4ea
1/4 X 8L / Max 4ea
M4 x 0.7pitch x 10L / Max 8ea

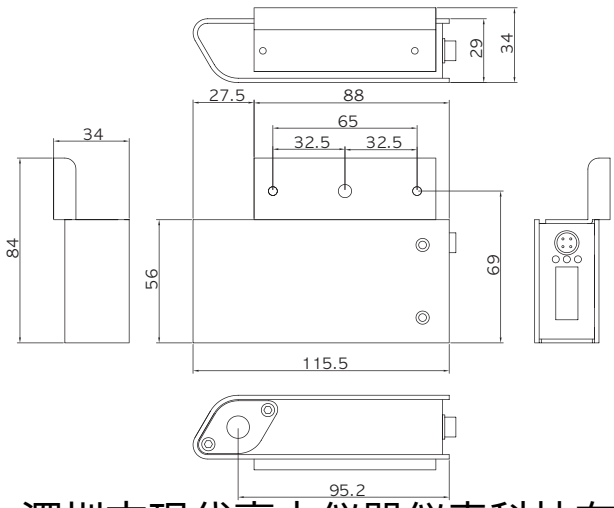


Power cable
AC 100V, 50/60Hz, 1.8m / 1ea
Part #: PC-110-0018

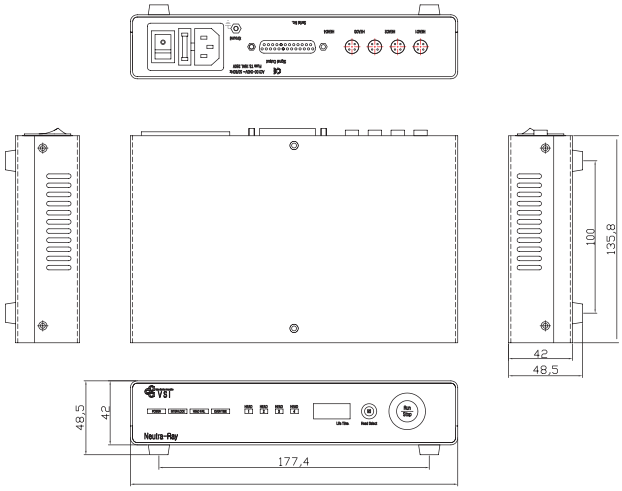
Power cable
AC 220V, 50/60Hz, 1.8m / 1ea
Part #: PC-220-0018

• Dimensions (unit:mm)

Head



Controller



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