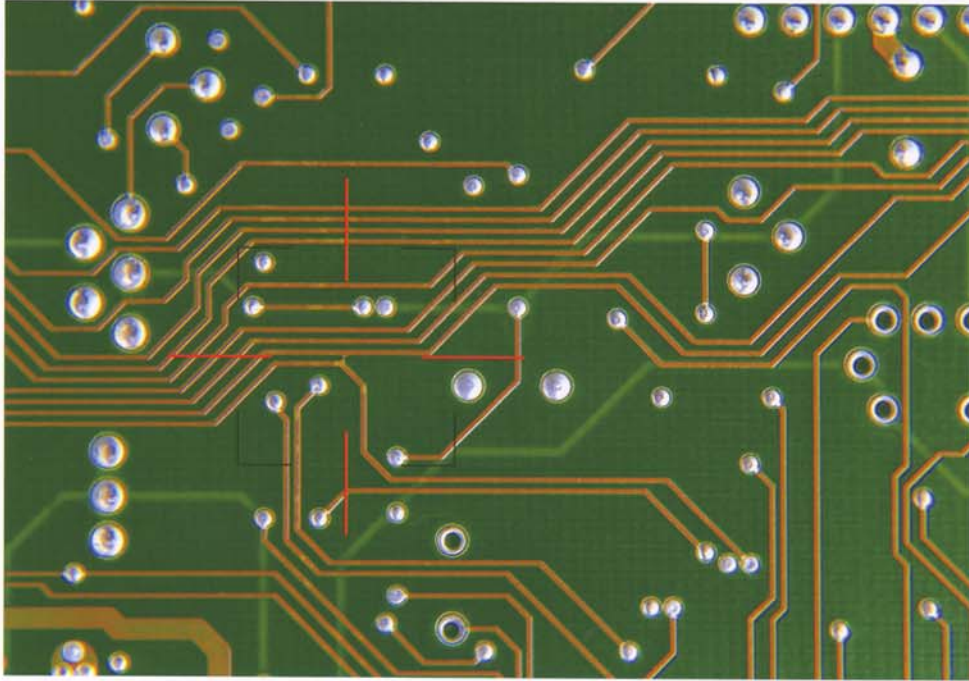


The functions of the IC and LSI are lost when electrostatic discharge (ESD) is generated toward them because ESD causes short-circuiting and damage to the joint of the semiconductor device, as

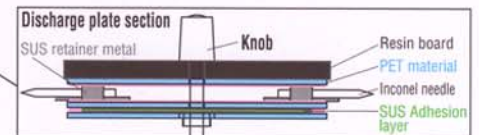
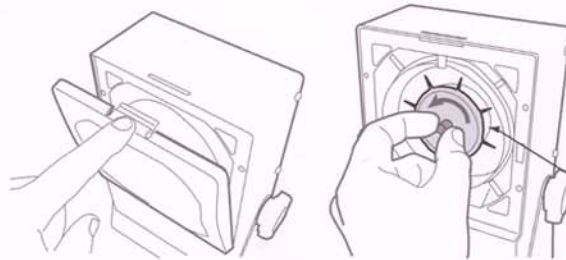
well as wiring breaks and disconnections. For sensitive devices that can be damaged at several tens to several hundreds volts, systematic measures against ESD are required.



5V ion balance suitable for the ESD measures to prevent static electricity trouble in advance.

Sensitive parts require a high-efficiency static eliminator that can reduce static electricity to almost 0V. If proper maintenance is not done, however, the ion balance is disrupted, causing reverse charging and air pollution.

Because the SDJ-09 adopts a capacity coupling method using eight capacity coupling discharging needles, it can generate stable ionic air with an ion balance of $\pm 5V$. Also, with the help of a built-in 100-hour cumulative timer that displays and informs the need for cleaning the needle electrode, the SDJ-09 can establish control standards for needle maintenance.



[Applications]

Static electricity removal for electronic device manufacture and assembly workstations, Static electricity removal for manufacture and assembly processes for optical devices, watches, precision parts, etc.
 Static erasure for processing and filling of food containers,
 Static erasure for film lamination and peeling of LCD panels,
 Prevention of adhesive stringing in gluing processes,
 Static erasure of molded parts on conveyors and prevention of dust adherence prior to printing and coating,
 Static erasure for stockers, winders and Thomson punching and cutting processes for paper, film and sheet,
 Static erasure of oscillating parts loaded into parts feeders.

[Features]

- ① Highly reliable piezoelectric transformer AC method.
- ② Because the innovative round disk-type discharge plate adopt a capacity coupling method, it can prevent the disruption of ion balance and, therefore, is ideal for the removal of electricity from electronic devices sensitive to static electricity.
- ③ Cleaning and replacement of the discharge plate are easy.
- ④ Equipped with a warning lamp that indicates troubles such as high pressure and fan stoppage.
- ⑤ 100-hour cumulative timer that displays and informs the need for cleaning the discharge plate. (Power indication light blinks.)

SPECIFICATIONS



PERFORMANCE

- INPUT VOLTAGE :** DC24V±5%
- POWER CONSUMPTION :** 340mA (typ.)
- ION GENERATION METHOD :** HIGH VOLTAGE AC CORONA DISCHARGE
- OUTPUT VOLTAGE :** AC 3.5KV
- AIR FLOW :** 2.8m³/min (max)
- WORKING TEMPERATURE RANGE :** +5~+40°C
- WORKING HUMIDITY RANGE :** 35~65%RH
- DIMENSIONS :** H240×W185×D102mm
- WEIGHT :** 1.9kg
- ACCESSORY :** AD24-IT-EX ADAPTER

- STATIC CHARGE DECAY-TIME :** <1.6sec (±1000V→±100V, measured at 300mm in the front of unit at maximum air flow)
- ION BALANCE RANGE :** 0V ± 5V (measured at 300mm in the front of unit at maximum air flow)
- OZONE PRODUCTION :** <0.019ppm (1.5L/min, measured at 300mm in the front of unit at maximum air flow)

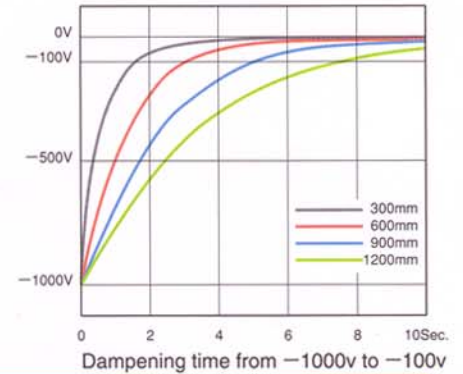
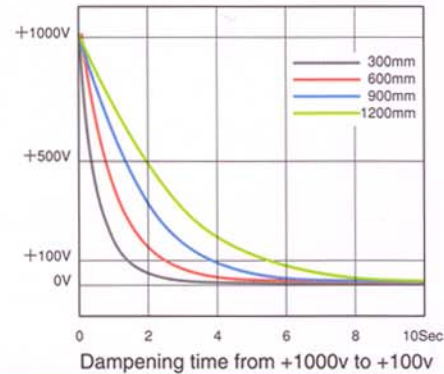
ION BALANCE

measured with TREK Model 158 (150×150mm 20pF)
 TOP : Ion balance
 Middle : dampening time from +1000V to +100V
 Bottom : dampening time from -1000V to -100V
 Specified 300mm, 600mm, 900mm, 1200mm indicates the distance from Static Eraser to charge plate monitor.
 0mm, 150mm indicates air blow width left and right.
 Air Flow : MAX, Temperature :20°C, Humidity :55%

300mm	600mm	900mm	1200mm	
-7.6V	-3.6V	-2.3V	+2.6V	150mm
+ 6.3sec.	+ 4.3sec.	+ 5.1sec.	+ 8.8sec.	
- 8.5sec.	- 5.5sec.	- 6.3sec.	- 10.1sec.	
+2.7V	+3.6V	-1.7V	-4.1V	0mm
+ 1.4sec.	+ 2.5sec.	+ 3.9sec.	+ 5.4sec.	
- 1.6sec.	- 3.1sec.	- 5.0sec.	- 7.2sec.	
-2.5V	+2.5V	-5.3V	-3.8V	150mm
+ 5.1sec.	+ 6.6sec.	+ 6.3sec.	+ 8.4sec.	
- 7.3sec.	- 7.2sec.	- 8.3sec.	- 9.8sec.	

DECAY TIME

measured with TREK Model 158 (150×150mm 20pF) .
 dampening time from ±1000V to ±100V
 Specified 300mm, 600mm, 900mm, 1200mm indicates the distance from Static Eraser to charge plate monitor.
 Air Flow :MAX, Temperature :20°C, Humidity :55%



DIMENSIONS

