

Clean Sensing Systems

Industry's Thinnest

High Air Capacity

Air Clean Unit

This unit comes with a unique fan structure. It is flat and has a high air capacity, thus enabling users to enjoy better performance in a smaller size.



Industry's First

Removal of Dust and Static Electricity at One Touch

Ionizer Unit

This can be directly mounted to the air clean unit. It is open-ended, and does not inhibit laminar air flow from the air cleaner unit.

There is no need for cumbersome wiring, and this helps to cut down the number of man-hours required for installation.



Industry's Smallest

Continuous Measurement

Air Particle Sensor

This unit employs a high performance fan for air intake, and allows continuous measurement up to about 40,000 hours. The semiconductor laser and highly sensitive optical design of the sensing unit enable measurement of fine particle sizes as small as 0.3 μm .



Continuous Monitoring

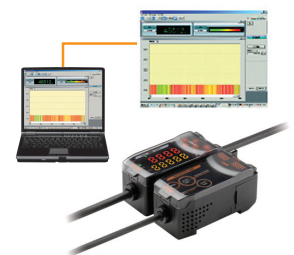
Storage on Measurements on PCs

Interface Unit / Real Time Clean Air Monitor

In order to achieve a higher production quality, it is necessary to continuously monitor dust particles in air.

Measurement values can be easily logged to a personal computer using the Interface Unit and special software. Up to 10 Particle Sensors and up to 9 Air Clean Units can be controlled through one Interface Unit and Real Time Clean Air Monitor.

It can also be connected to the Electrostatic Sensor (ZJ-SD), thus enabling users to grasp the relationship between the amount of static electricity and particles.



Ionizer Series

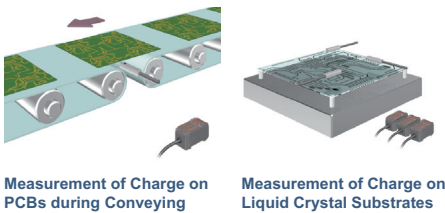
Electrostatic Sensor

Direct Display of Static Charge

ZJ-SD100/ZJ-SDA11 Electrostatic Sensor

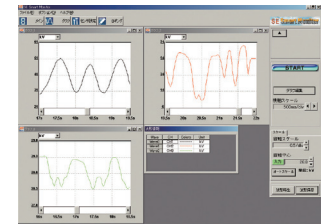
Compact Sensor Head (6 × 6 × 65 mm) with visual display of workpiece static charge on a Smart Digital Amplifier.

Multi-point measurement and easy computer logging of static electricity. Distance compensation, workpiece area compensation, and highly accurate static charge measurement using a Displacement Sensor.

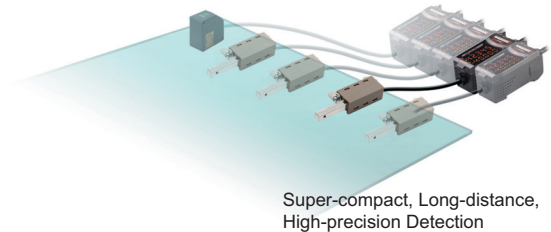


Measurement of Charge on PCBs during Conveying

Measurement of Charge on Liquid Crystal Substrates



Static Electricity Countermeasures with Multi-point Measurement and Logging



Super-compact, Long-distance, High-precision Detection

Ionizers

Fan Type

Dual-mixing Variable-DC Method

ZJ-FA Fan Type Ionizer

Discharge time: 3 s max., high-performance ion balance of ± 10 V max. Uses a DC Ionizer with high ion levels and achieves excellent ion balance with a unique fan construction and automatic balance control.



Preventing adhesion of foreign particles when labeling

Ionizing resin parts

Ionizing cell manufacturing lines during assembly



Advanced Type

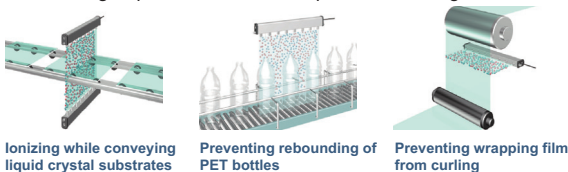
General-purpose Type

Bar Type

Dual-mixing Variable-DC Method

ZJ-BA Bar Type Ionizer

Discharge time: 3 s max., high-performance ion balance of ± 30 V max. The built-in Ion Balance Sensor automatically controls the positive and negative ion balance. Enables high-speed ionization with positive and negative mode functions.



Ionizing while conveying liquid crystal substrates

Preventing rebounding of PET bottles

Preventing wrapping film from curling



Positive mode for generating many positive ions



Positive mode for generating many negative ions

Push Type

High-frequency AC Method

KS1 Air-push Type Ionizer

High-frequency (68 KHz) AC method with excellent ion balance. Many nozzles variation for a variety of applications, e.g. spot/screen ionization.



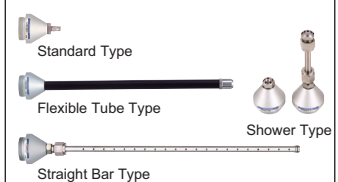
Ionization of both sides of PCBs

Spot ionization of parts

Ionization of films



Wide Range of Nozzles



Standard Type

Flexible Tube Type

Shower Type

Straight Bar Type

Cleaning Sensing Systems/Ionizers

Sensing Guide

Clean Sensing Systems

Ionizers