Gun Type Ionizer
IZG10 Series

How to Order

IZG10 – 08 01 – 01

One-touch fitting

Symbol	Port size
08	ø8 (Metric)
09	ø5/16" (Inch)

AC adapter*1, Power supply cable

Symbol	Type
01	AC adapter (With AC cord*2)
02	AC adapter (Without AC cord)
03	Power supply cable (For 24 VDC wiring)
N	None

Nozzle type

Symbol	Type
01	Standard nozzle
02	Bypass nozzle*3

⚠Caution

The nozzle is specific for this product. Do not use any other nozzle. Doing so will adversely affect static neutralization performance.

*1 The AC adapter body and the power supply cable (For AC adapter) come as a set. Refer to the AC adapter image below under "Accessories."

*2 The AC cord has a rated voltage of 125 V. If using an input voltage exceeding 125 VAC, select "02" (Without AC cord) and prepare a suitable AC cord separately.

*3 This nozzle is complaint with the OSHA standard for hand and portable powered tools and equipment, general (1910.242b) requiring that "static pressure at the main orifice shall not exceed 30 psi (210 kPa). This requirement is necessary in order to prevent a back pressure buildup in case the nozzle is obstructed or dead ended." * Supply pressure: 0.5 MPa or less
OSHA: Occupational Safety and Health Administration

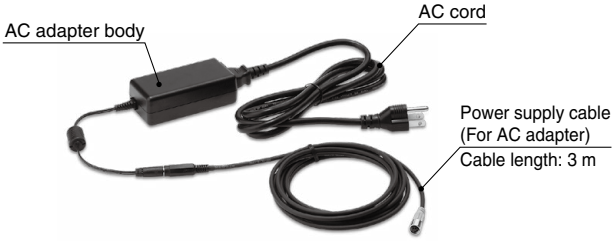
Accessories (for Individual Parts)

AC adapter

IZG10-CG 1

AC adapter*1

Symbol	Type
1	With AC cord*2
2	Without AC cord



*1 The AC adapter body and the power supply cable (For AC adapter) come as a set.

*2 The AC cord has a rated voltage of 125 V. If using an input voltage exceeding 125 VAC, select "02" (Without AC cord) and prepare a suitable AC cord separately.
The input (AC) side and output (DC) side of the AC adapter are not isolated. If using the AC adapter as DC power supply for a different product, this may cause an electric shock or malfunction. Do not use the AC adapter for the DC power supply of a different product.

Power supply cable (For 24 VDC wiring)

IZG10-CP

Cable length: 3 m

Nozzle assembly

IZG10-A001 – 01

Nozzle type

Symbol	Type
01	Standard nozzle
02	Bypass nozzle*1

Standard nozzle

Bypass nozzle

*1 This nozzle is complaint with the OSHA standard for hand and portable powered tools and equipment, general (1910.242b) requiring that "static pressure at the main orifice shall not exceed 30 psi (210 kPa). This requirement is necessary in order to prevent a back pressure buildup in case the nozzle is obstructed or dead ended." * Supply pressure: 0.5 MPa or less
OSHA: Occupational Safety and Health Administration

Emitter assembly

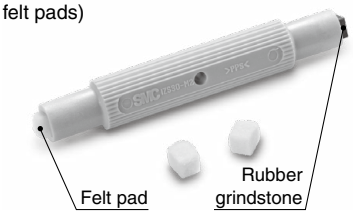
IZG10-NT

* A protective cap is attached to the tip of the emitter when shipped.
Please remove the cap before use.

Cleaning kit

IZS30-M2

(With 1 felt pad, 1 rubber grindstone, and 2 replacement felt pads)



IZS30-A0201

(10 replacement felt pads)

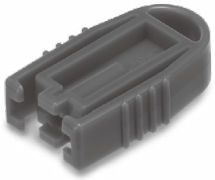
IZS30-A0202

(1 replacement rubber grindstone)

Removal tool

IZG10-M1

Use this tool to remove the emitter assembly.
The removal tool is shipped together with the product.
To order it separately, use the product number above.
In addition, refer to the operation manual for replacement instructions.



SMC

Specifications

Ionizer model		IZG10
Ion generation method		Corona discharge type
Method of applying high voltage		High frequency AC type
Applied voltage∗1		±2.5 kV
Offset voltage∗2		Within ±10 V
Air supply∗3	**Fluid**	Air (Clean, dry air)
	Operating pressure	0.05 to 0.6 MPa
	Connecting tube size	ø8 (Metric), ø5/16" (Inch)
Power supply voltage		24 VDC ±10% (21.6 to 26.4 V)
Current consumption		90 mA (typ.)
Ambient temperature		0 to 40°C (No freezing)
Ambient humidity		35 to 65%RH (No condensation)
Material		Case: PBT Emitter: Tungsten
Weight (Body only)	**Standard nozzle**	200 g
	Bypass nozzle	250 g
Standards/Directive		CE (EMC directive, RoHS directive), UKCA

∗1 Measured with a high pressure probe of 1000 MΩ and 5 pF

∗2 Measurement value based on a charged plate (Dimensions: 150 mm x 150 mm, Capacitance: 20 pF) as defined in the U.S. ANSI standards (ANSI/ESD STM3.1-2015)
When the distance between the charged plate and the ionizer is 150 mm, and the operating pressure is 0.2 MPa

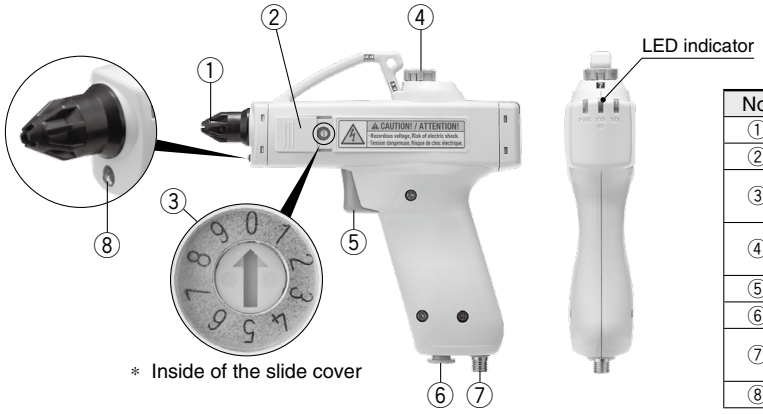
∗3 Static neutralization is not possible without supplying compressed air. Without compressed air, ozone or nitrogen oxides generated by the ion generation process may accumulate and adversely affect the product and peripheral equipment.

AC Adapter Specifications

Input voltage∗4	100 to 240 VAC 50/60 Hz
Output voltage	24 VDC ±5%
Output current	0.8 A max.
Ambient temperature	0 to 40°C
Ambient humidity	20 to 80%RH
Safety standards	IEC 62368-1

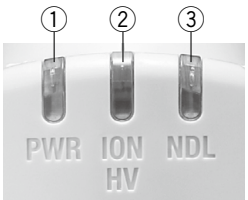
∗4 An AC cord included with an AC adapter is only for use in Japan. (Rated voltage 125 V, Plug JIS C 8303, Inlet IEC 60320-C13)

Parts Description



No.	Description	Contents
①	**Nozzle**	Discharge ionized air
②	**Slide cover**	Protective cover for the mode setting switch
③	**Mode setting switch**	Switch for setting blow and trigger (Default setting: Set no. 0)
④	**Flow adjustment knob (With indicator)**	Turn the knob to adjust the flow rate. Press the knob to lock the setting.
⑤	**Trigger**	Switch to turn on and off static neutralization
⑥	**One-touch fitting**	Supply port of compressed air
⑦	**Power supply connector**	Connector for power supply, F.G., and external switch inputs
⑧	**Lighting LED**	Illuminate the object during static neutralization

Description of LED Indicators



LED Indicators

No.	Display	LED color	Description	Contents
①	PWR	Green	**Power supply indicator**	Green LED turns ON when power is supplied, and the LED flashes when the voltage is outside of the specification range.
②	ION/ HV	Green/ Red	**Static neutralization operation/Incorrect high voltage indicator**	Green LED turns ON during static neutralization. Red LED turns ON when a high voltage abnormality is present.
③	NDL	Green	**Maintenance indicator**	Green LED turns ON when lowered static neutralization performance due to the contamination or wear of the emitter is detected.

Alarm

The LEDs are used for notification of malfunctions.
Please note that ion generation may either continue or stop depending on the type of abnormality.

Alarm name	Ion generation	LED			Description	Action to reset alarm
		PWR	ION/HV	NDL		
Power supply failure	Stop	Green (Flashing)	OFF	OFF	Connected power supply voltage is outside of specification.	Supply power again.
Incorrect high voltage	Stop	Green (ON)	Red (ON)	OFF	The high voltage output has dropped.	Supply power again.
CPU failure	Stop	Green (Flashing)	Red (Flashing)	Green (Flashing)	CPU error due to noise, etc.	Supply power again.
Maintenance indication	Continue	Green (ON)	—	Green (ON)	When static neutralization performance is reduced due to contamination, wear, or damage of the emitters	—

Dimensions

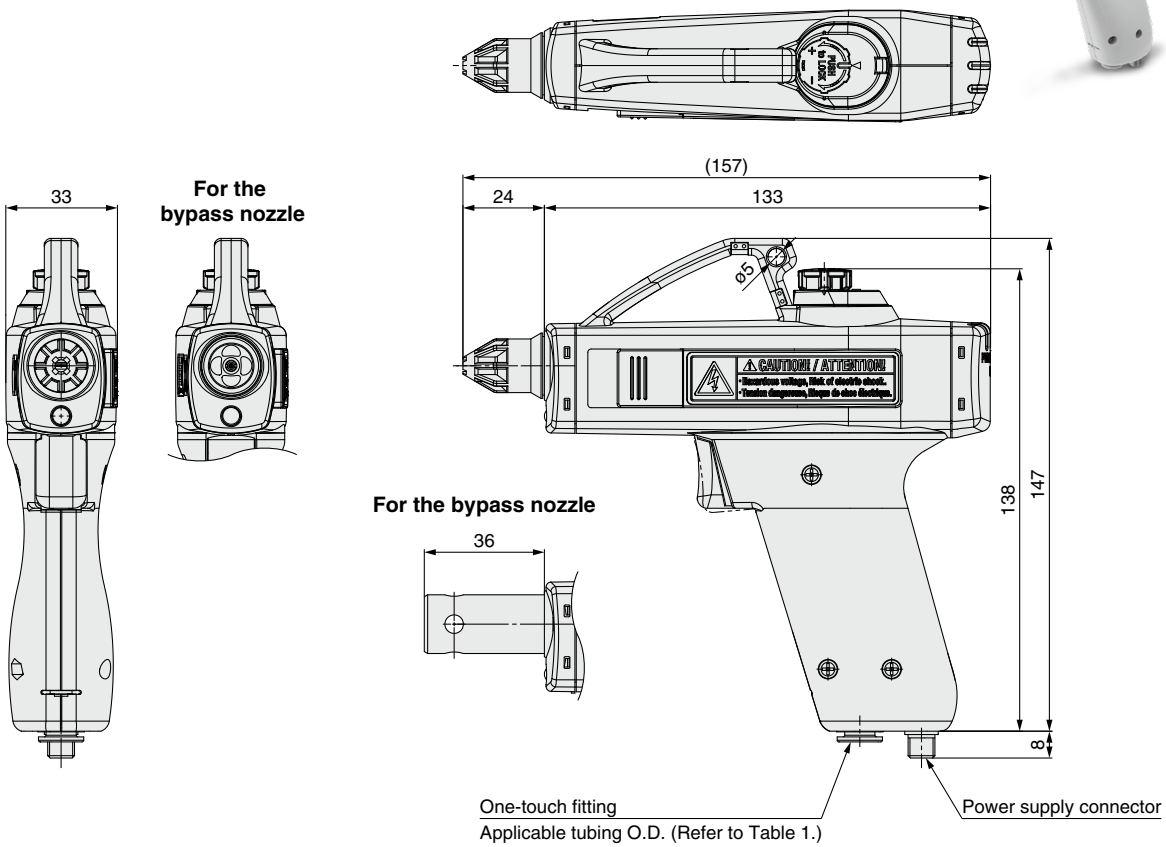
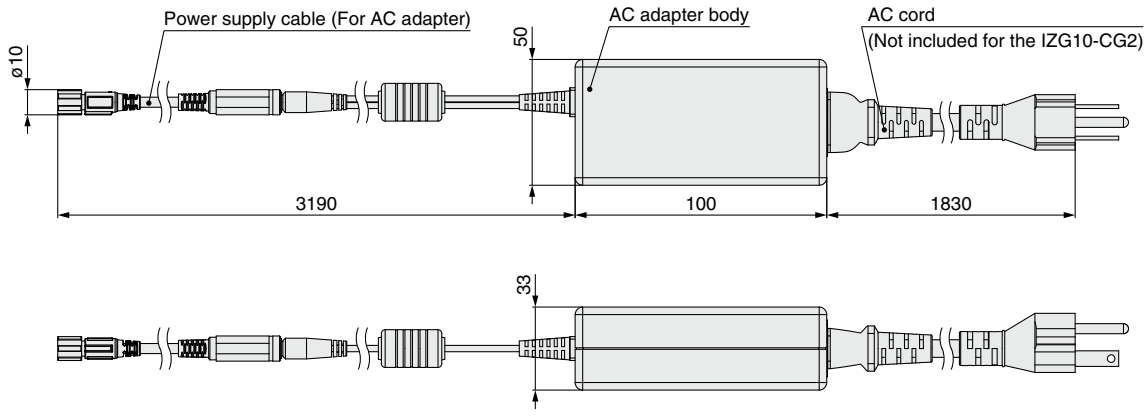


Table 1

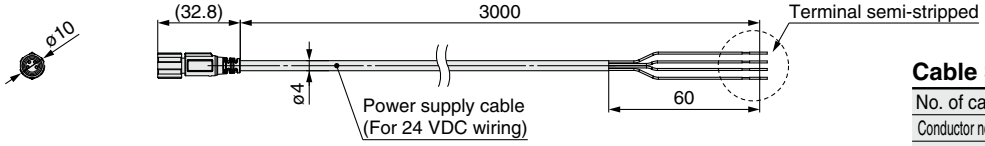
Model	Applicable tubing O.D.
IZG10-08□-01	ø8 (Metric)
IZG10-09□-01	ø5/16" (Inch)

AC adapter IZG10-CG□



Model	AC cord
IZG10-CG1	Included
IZG10-CG2	None

Power supply cable (For 24 VDC wiring) IZG10-CP



Cable Specifications

No. of cable wires/Size	4 cores/AWG26
Conductor nominal cross section	0.15 mm²
Insulator O.D./Identification color	0.85 mm/Red, Black, White, Green
Sheath material	Lead-free PVC
Outside diameter	4 mm