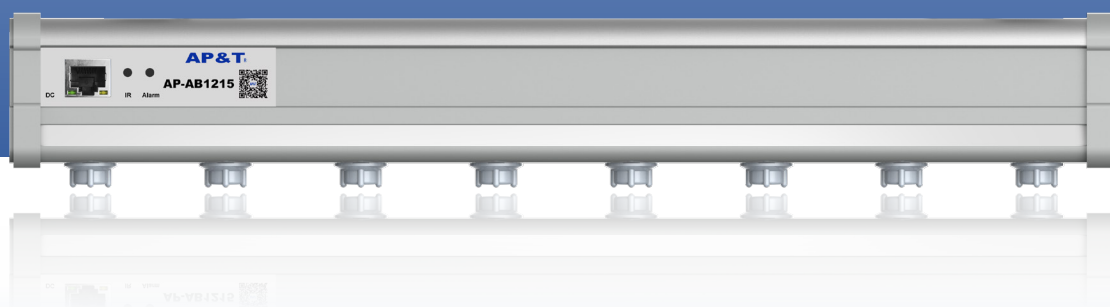
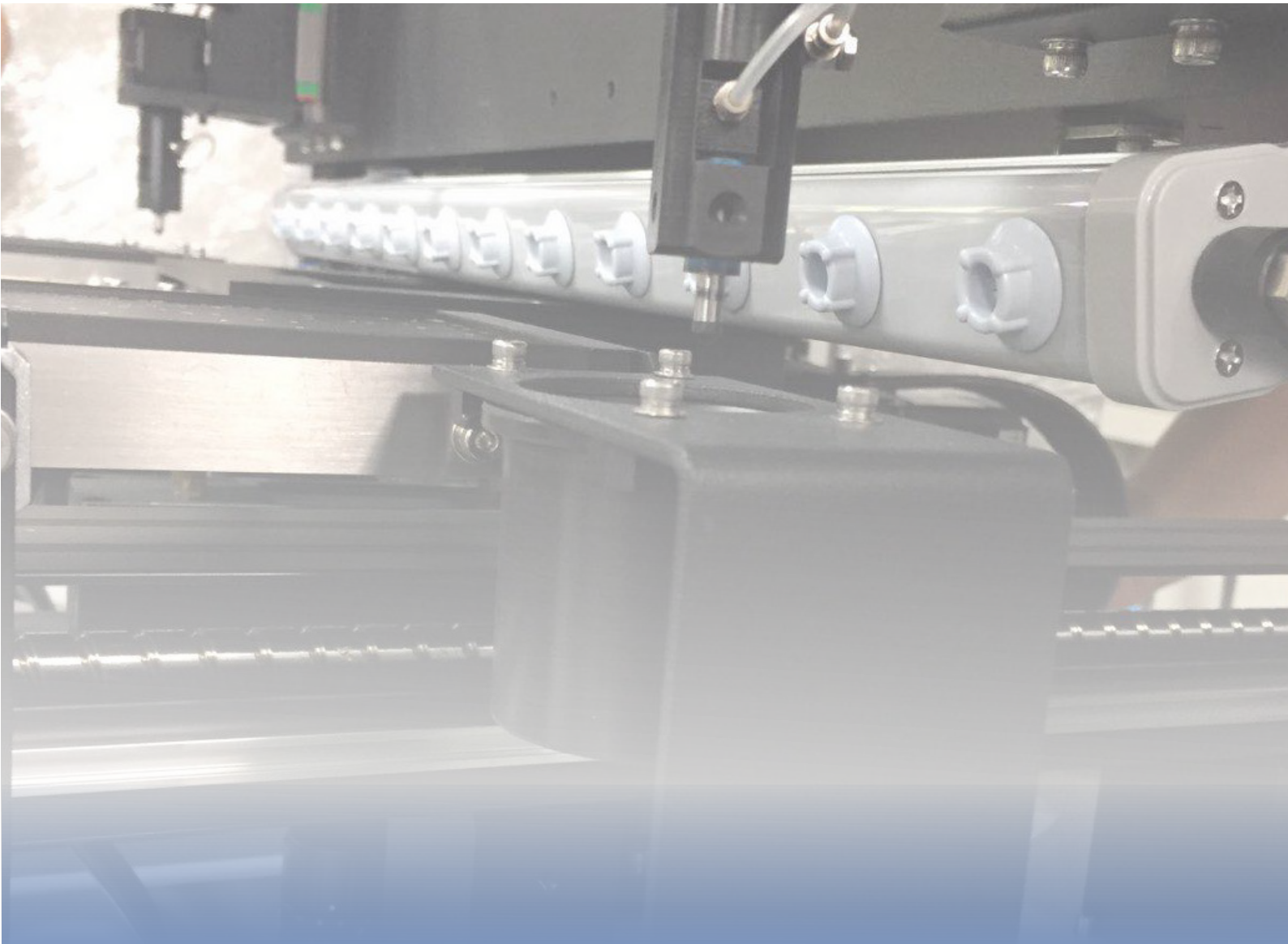


High Efficient Electroshock-proof

Intelligent Ion Bar

AP-AB1215



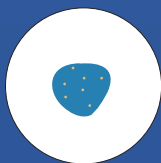


Widely used in electronics, optoelectronics,
semiconductor and other industries

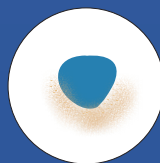
Effectively solve the problem caused by static electricity



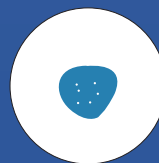
Static removal



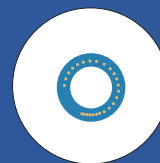
Prevent adhesion of objects



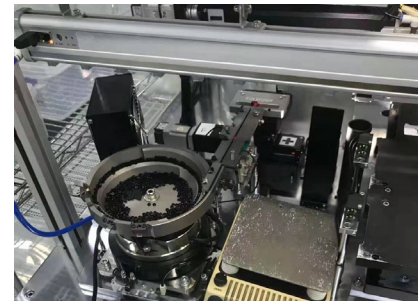
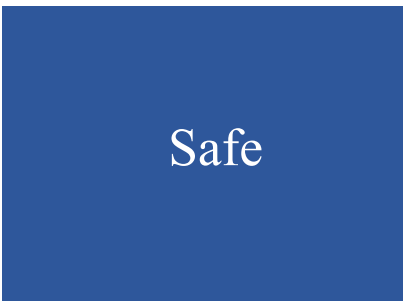
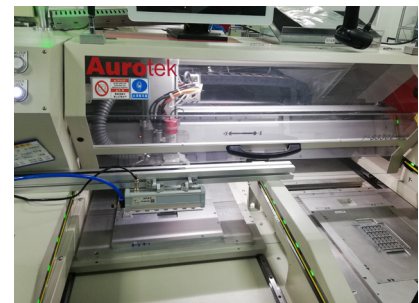
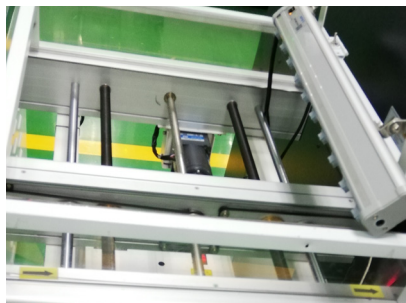
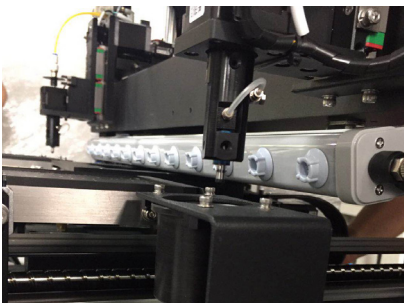
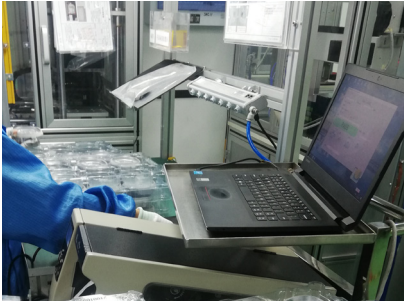
Prevent sticking



Control ink splashing



Prevent uneven scattering



Intelligent Control

Ion balance/
Ion output frequency adjustable



Remote control button



"R/S": Run and pause.

"IB+": Increase the duty cycle to eliminate excess negative charges on the surface of the object;

"IB-": Reduce the duty cycle to eliminate excess positive charge on the surface of the object.

"P": Only work with positive high voltage;

"N": Only work with negative high voltage.

"Bar" + "1": Set the working frequency of the ion bar to 1 Hz;

"Bar" + "2": Set the working frequency of the ion bar to 3 Hz;

"Bar" + "3": Set the working frequency of the ion bar to 5 Hz;

"Bar" + "4": Set the working frequency of the ion bar to 10 Hz;

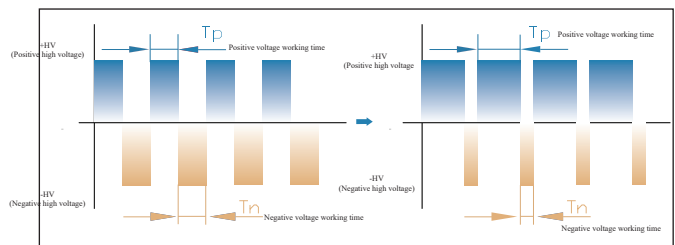
"Bar" + "5": Set the working frequency of the ion bar to 20 Hz;

"Bar" + "6": Set the working frequency of the ion bar to 30 Hz;

"Bar" + "7": Set the working frequency of the ion bar to 50 Hz.

Ion balance adjustment

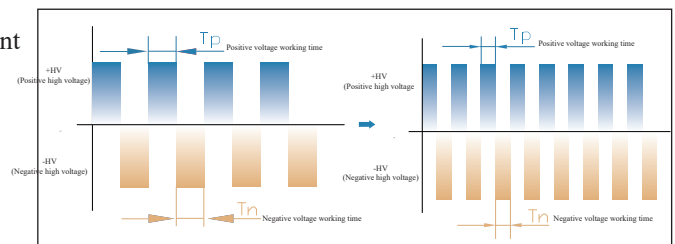
Press "IB-" when positive voltage on plate tester or target object is large or "IB+" when negative voltage on plate tester or target object is large until the ion balance reaches to ideal status. Static removing speed can be raised by adjusting the output ratio of positive and negative ion.



Output frequency of positive & negative ions adjustment

Adjust the output frequency of positive and negative ions to apply to different elimination distances.

No matter the distance is long or short, it can exert its static elimination ability. The factory setting is 30Hz. A handheld terminal is required or return to manufacturer if output frequency need to be adjusted.



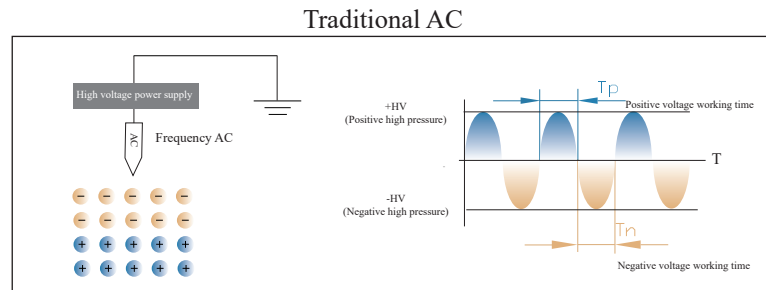
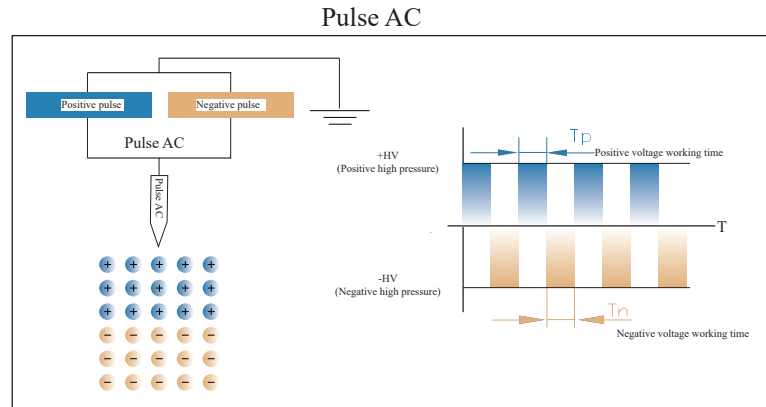
Pulse AC

The effect of static eliminating is better compare to power frequency AC ion bar

Comparison with traditional AC

The pulsed AC method alternately applies "+" and "-" high voltage to one electrode needle to generate two polar ions.

Compared with the traditional AC method, the amount of generated ions is increased and no uneven static elimination is found. Static elimination ability fits for both short or long distance.



3 situations of static on the surface of the object



Decrease T_p so that the positive voltage becomes smaller and the acting time becomes shorter. Less positive ions and more negative ions output to neutralize the excess positive charge on the surface of the object.



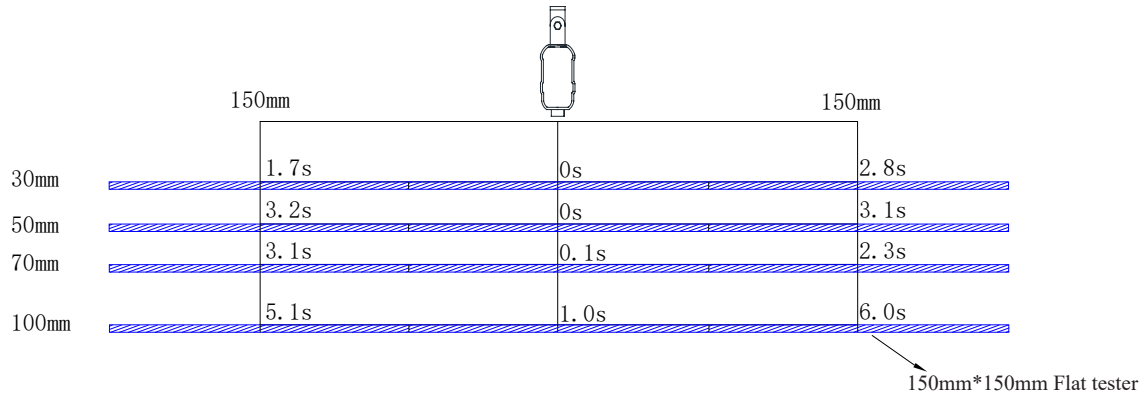
Increase T_p so that the positive voltage acting capacity becomes greater and the acting time becomes longer. More positive ions and less negative ions output to neutralize and excess negative charge on the surface of the object.



Adjust the duty ratio $[T_p/(T_p+T_n)]$ to an appropriate ratio and send out the same amount of positive and negative ions to neutralize the static charge on the surface of the object.

Efficiently static removal

Stay away from static electricity & for clean production environment



Test Conditions:

Ion bar length: 10mm Working frequency: 30Hz

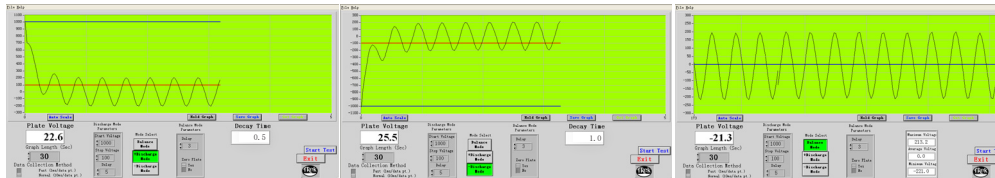
Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

Test instrument: Trek157 static tester

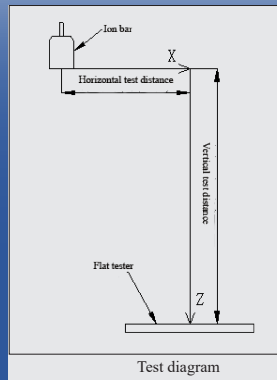
Test voltage: $\pm 1000V \rightarrow \pm 100V$ attenuation

Test environment: humidity $50 \pm 5\%$; temperature $23 \pm 3^\circ C$

The test data diagram is as follows (test distance: 100mm, ion bar length: 410mm, working frequency: 30Hz):



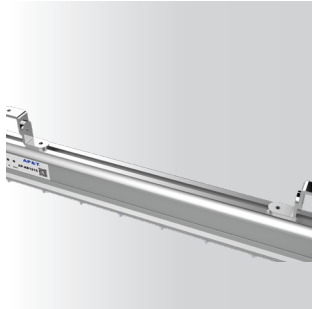
Test data under other conditions are as follows



Ion bar length: 410mm, working frequency: 30Hz				
Test distance (mm)		Discharge speed		
Vertical	Level	Positive discharge time	Negative discharge time	Ion Balance voltage (V)
		(S)	(S)	
30	-150	1.0	1.7	-13.5
	0	0.0	0.0	-6.3
	150	2.8	2.7	10.1
50	-150	1.4	3.2	-23.3
	0	0.0	0.0	7.5
	150	1.8	3.1	-15.8
70	-150	3.0	3.1	17
	0	0.1	0.1	13.7
	150	2.1	2.3	19.9
100	-150	5.1	4.2	2.75
	0	0.5	1.0	9.9
	150	6.0	5.4	21.3

Features

Safe / Easy to use / Durable



No.1

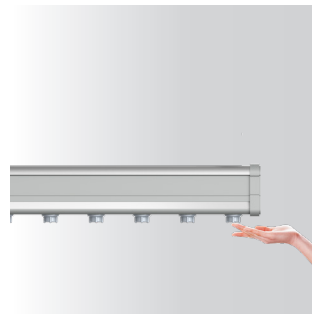
Easy installation

Provide stainless steel mounting angle and can adapt to various installation environments.

No.2

Electroshock-proof

Protection against electroshock.



No.3

Working status visualization

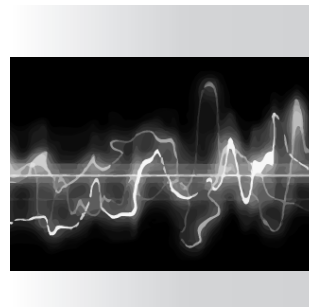
Green light-----working normally
Red light-----abnormal high voltage



No.4

CE certification

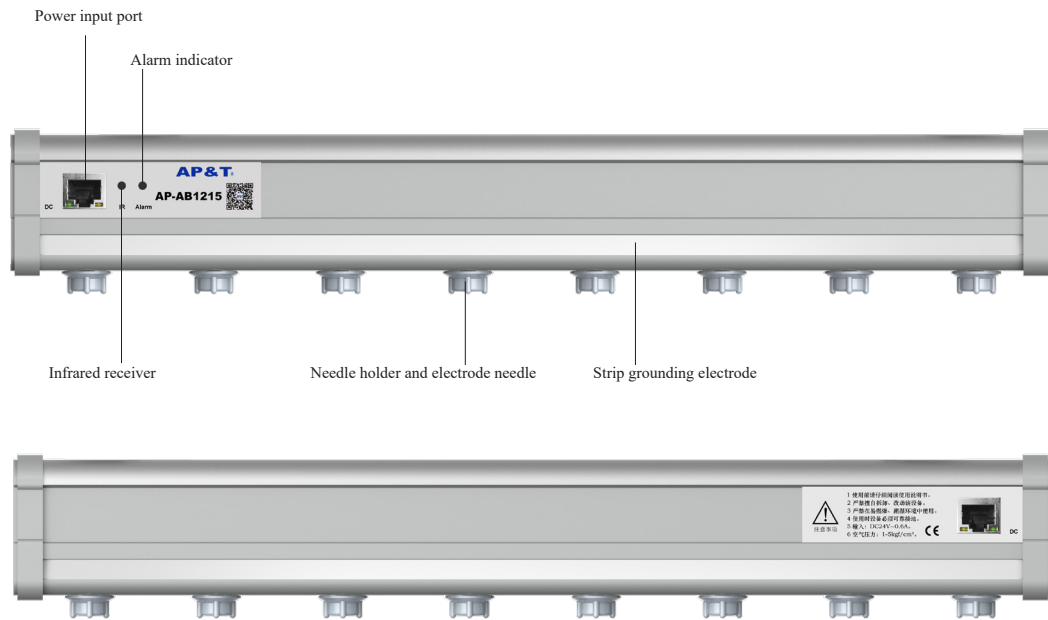
It can effectively prevent the external electromagnetic interference from affecting the normal operation of the ion bar. This is a static electricity eliminator with high safety and high reliability.



Specification

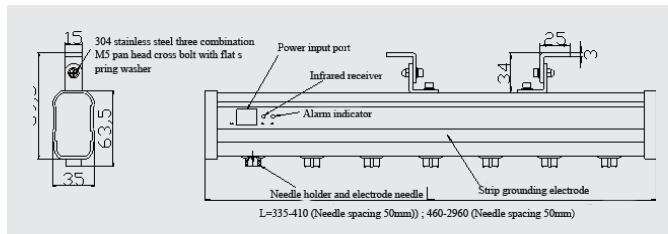
Details / Parameter / Size

Product Details

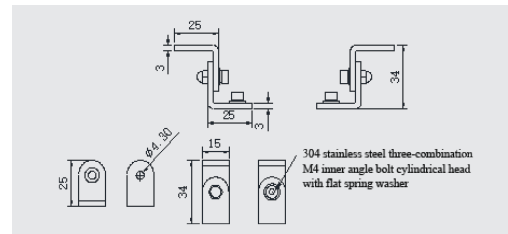


Product Size

Unit: mm



Ion bar size drawing



Mounting bracket size drawing

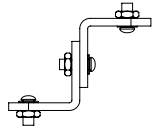
Product Parameter

Model	AP-AB1215
Input voltage	DC 24V
Input Current	< 600mA
Power	10W
Working voltage	DC±5KV
Ion emission	Pulse AC
Emitter electrode	SUS
Discharge structure	Resistance coupling
Output frequency	1,3,5,10,20,30,50Hz; (Ex-work setting: 30Hz)
Duty factor	10%—90%
Discharge range	L*W*H: (335-410mm; 460-2960)*300*100mm
Installation distance	30→100mm
Ion balance	≤ ±30V (AVE)
Discharge speed	≤1S (Test distance 100mm)
Status indicator	High pressure alarm indicator (green light-----normal operation ; red light-----abnormal high voltage)
Working temperature	0°C-50°C
Working humidity	< 70%
Dimensions	L*W*H: 335-410mm; 460-2960*35*63.5mm
Bar material	Flame retardant PVC、AL、SUS
Packaging accessories	180°rotating installation angle
Adapter power	GRT-240200: DC24V 2A, dual network port output, 123*61*40.5mm (L*W*H)
Power cord	2.5m
Warranty	1year
Certification	CE

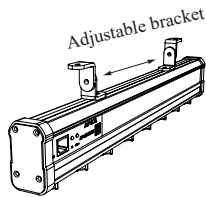
Use of product

Installation step / Installation position / Packaging accessories

Installation step



Bracket installation

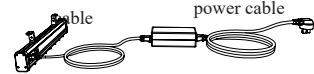


Adjustable bracket

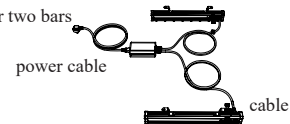
1

1. Take out the ion bar, adapter power supply, power supply network cable, stainless steel mounting brackets and other accessories from the packing box.
2. Install the stainless steel mounting brackets on the base mounting slot on the ion bar.

one adapter for one bar



one adapter for two bars

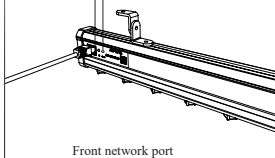


2

- Insert one end of the power cord into the RJ45 socket of the power adapter and the other end into the power RJ45 socket on the bar body. One adapter can connect up to two ion bars.

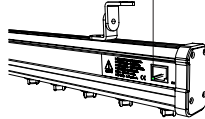
Orange light

Green light



Front network port

Green light



Rear network port

3

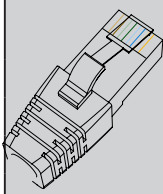
The adapter power indicator light is on and the ion bar panel indicator light is green to show that the ion bar is working. The positive and negative high voltage indicator lights alternately flash with the frequency. The front network port only lights orange-negative high voltage and the rear network port only lights green-positive high voltage.



4

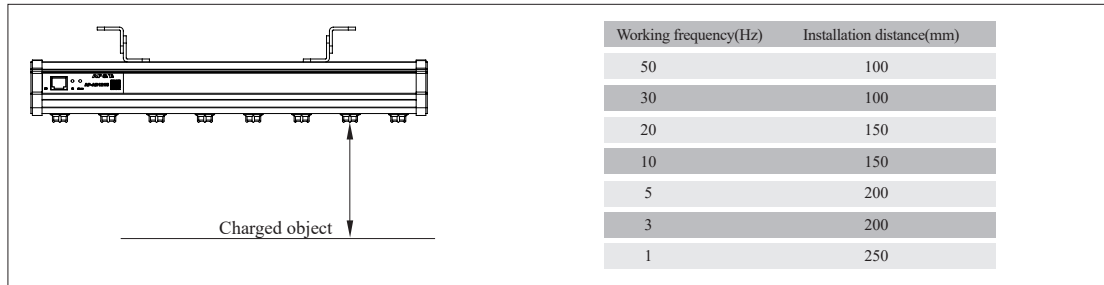
Use the remote control to adjust the voltage output parameters under the appropriate air pressure. When the positive voltage on the surface of the flat panel detector or the de-energized object is large, press to adjust "IB-"; when the negative voltage on the flat panel detector or the surface of the de-energized object is large, press to adjust "IB+" until the balance is adjusted to the ideal status.

Power interface definition

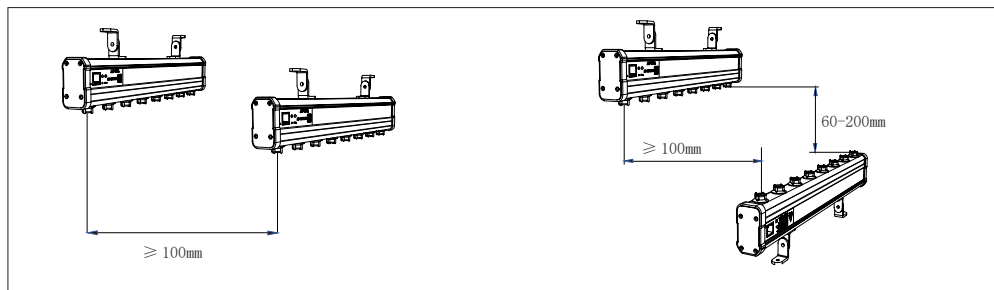
	1、 2	Orange, white-orange	VCC: +24VDC
	3	Blue	RS485+B
	4	White-blue	RS485+A
	5	Green	0V
	6	White-green	0V
	7、 8	Brown, white-brown	GND/PE

Installation position

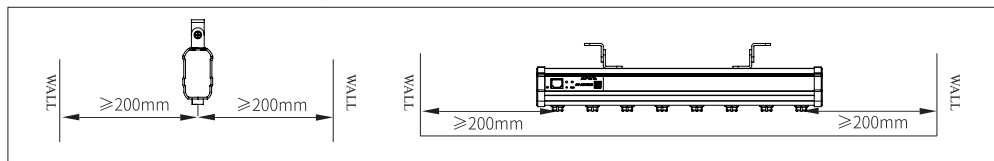
1. Choose the best power elimination position and install the rod body and the matching power adapter firmly after the static detection of the on-site working environment. The installation angle should be perpendicular to the surface of the charged body, and the installation distance can be referred to the following table. (Ex-work setting is 30Hz. Use the remote control to adjust if you need to adjust the output frequency. Configure a flat panel tester if you want to see the adjustment results)



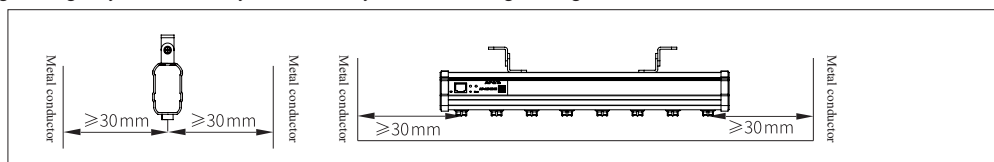
2. The ion bar grounding electrode is not allowed to be covered other objects.
3. It is advisable to install two ion bars side by side with an interval of more than 300mm. Two ion bars should be staggered by more than 300mm If they are to be installed face to face.



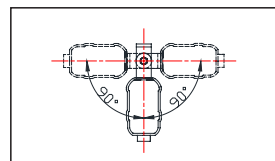
4. It is advisable to be more than 200mm away from obstacles such as walls.
















5. For the safe use of the ion bar, the ion bar discharge electrode should be at least 30mm away from the metal conductor and metal grounding body and the bar body must be reliably connected to the grounding wire.



6. The installation angle of the ion bar can be adjusted.



Packaging accessories

Name	Image	Part No.	Specification	Quantity
Power Adapter		OSP000601	GRT-240200: DC24V 2A, dual network port output, Size: 123*61*40.5mm (L*W*H)	1
National standard power cord		8YXG25110	Standard:1.8m, optional:3m/5m	1
Crystal head black shield at both ends cable		8WXI00004	Standard:2.5m, 5m/10m:optional	1
Single-ended crystal head black shield cable		8WXI00002	FUTP CAT.5E 26AWG 4Pair Jacket PVC OD:5.6±0.2mm	Optional
L-shaped stainless steel mounting bracket		AP8038005	Height 25mm/Width 16mm/ Thickness 3mm Aperture 5mm (measured 4.8mm)	4
Square nut		AP8933000	M5*12*12*4	2
304 stainless steel spring washer		AP8943000	M5	6
304 stainless steel flat gasket		AP8946004	M5	6
304 stainless steel pan head Phillips screw		AP8900001	M5*12	6
Hex nuts		1LML05000	M5	4
Intake throttle valve		3JTQF0801	Standard:8mm, optional:6mm	1
Needle holder		AP6604000	—	—
Remote control		ZX2253000	Infrared remote control, neutral panel (L*W*H: 85.76*39.76*6.66)	1

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Speciality Creates Value

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