

AP&T®

Shanghai Anping Static Technology Co.,Ltd

New Upgrade

Intelligent Fast Discharge Ion Bar

AC Pulse

AP-AB1225



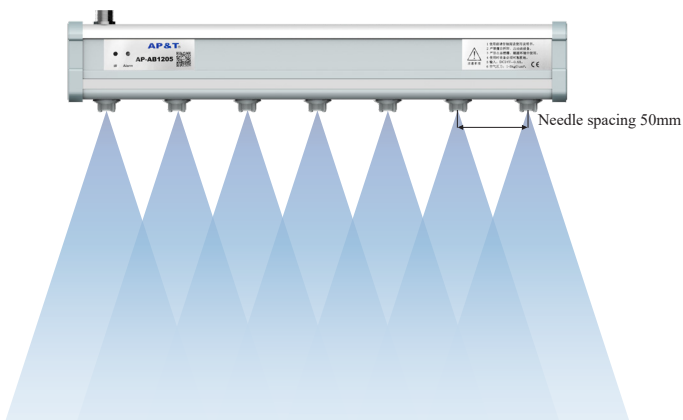
—AP&T—

Narrow Pitch Design

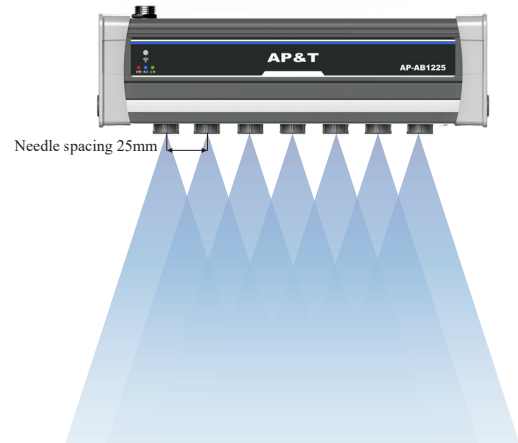
25mm narrow pitch specification
brings great performance

25mm narrow needle tip distance, reduced from 50mm to 25mm, the output ion quantity is larger, It can eliminate the static electricity of the target objects that have been eliminated in the past and have a large charge.

Old



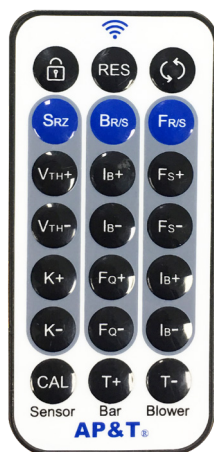
New



After upgrading, **faster discharge speed!**

Intelligent Control

Adjustable cleaning time
& ion balance & ion output frequency



Unlock

After unlocking, if any key is pressed, it will continue to delay 30S
After unlocking, without any key press 30S, exit and lock

Remote control button

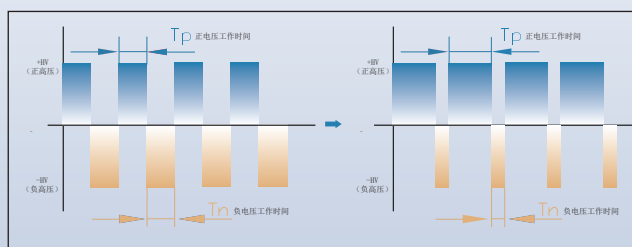
Br/s: run and pause
IB+/IB-: balance adjustment (5%-95%, unit is 0.1%)
FQ+/FQ-: Frequency adjustment (unit is 1HZ)
T+/T-: cleaning time adjustment, unit is 1D=24H
CAL+ "RES": Factory setting (55HZ, 50%, 7D)

Cleaning time setting

You can set a cleaning time reminder, the time can be set arbitrarily, when the blue light flashes, it means that the ion rod needs cleaning.
(In order to ensure the good performance of the product, it should be cleaned and maintained in time according to the use environment and the required electrostatic protection requirements, that is: use an electrostatic brush, a clean cotton swab, a clean cloth dipped in anhydrous alcohol to gently remove the discharge electrode, Carbon deposits on discharge sockets and metal discharge bodies, their performance will be significantly improved.)

Adjust ion balance

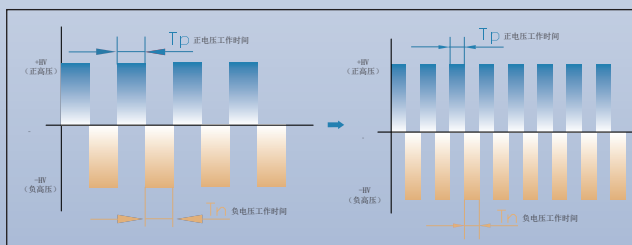
When the positive voltage on the surface of the flat panel detector or the de-energized object is large, press "IB-"; when the negative voltage on the surface of the flat panel detector or the de-energized object is large, press "IB+" until the balance is adjusted To the ideal state. It can be used to adjust the balance voltage by adjusting the output ratio of positive and negative ions. Can increase the speed of removing static electricity.



Adjust the output frequency of positive & negative ions

By adjusting the output frequency of positive and negative ions, it can be applied to different distances for eliminating electricity. Whether it is a short distance or a long distance, it can exert its static elimination ability. The factory setting is 55Hz. If you need to adjust the output frequency, you need to equip with a handheld terminal or return to the factory for adjustment.

Frequency (Hz)	Discharge distance (mm)
55	35
30	50
10	70
5	100



Pulse AC

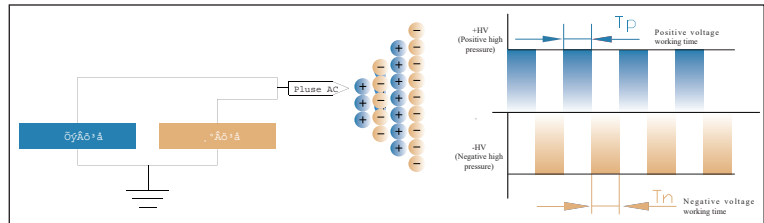
Compared with AC ion bar, the effect of eliminating electricity is better

Comparison with traditional AC

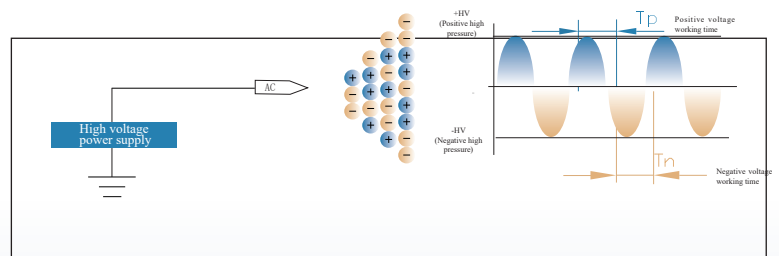
The pulsed AC method alternately applies "+" and "-" high voltage to one electrode needle to generate two polar ions.

Compared with the traditional AC method, the amount of generated ions is increased, and the phenomenon of static elimination is not generated. Whether it is a short distance or a long distance, it can exert its static elimination ability.

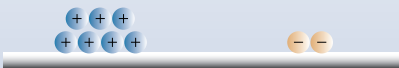
New Pulse AC



Traditional Pulse AC



3 situations with static on the surface of the object



Adjust T_p to be smaller, so that the positive voltage acting capacity becomes smaller and the acting time becomes shorter, The output of positive ions becomes less and the output of negative ions becomes more, neutralizing the excess positive charge on the surface of the object.



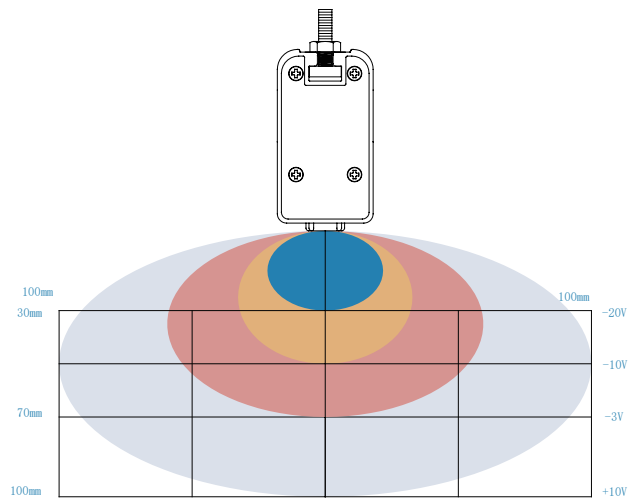
Adjusting T_p becomes larger, so that the positive voltage acting capacity becomes greater, and the acting time becomes longer, Positive ion output becomes more, negative ion output becomes less, and excess negative charge on the surface of the object is neutralized.



Adjust the duty ratio $[T_p/(T_p+T_n)]$ to an appropriate ratio, 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



Static elimination distance: distance 100mm can eliminate static electricity
at high speed within 1s
Static elimination width: up to 200mm width.

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

Test instrument: Trek157 static tester

Test voltage: $\pm 1000\text{V} \rightarrow \pm 100\text{V}$ attenuation

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

Features

Safety & Useful & Durability



No.1

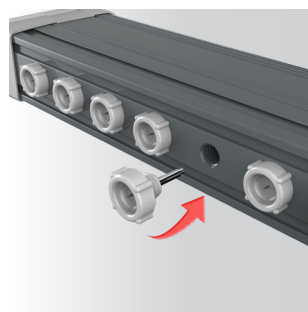
Standard tungsten alloy needle

Compared with titanium and silicon materials, tungsten alloy has a longer service life.

No.2

Replace discharge parts, easy to operate

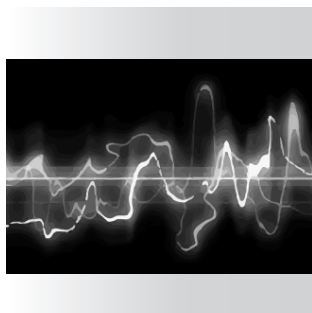
When the discharge needle is damaged, the electrode needle needs to be replaced, and the needle seat can be replaced by rotating the needle counterclockwise.



No.3

CE certification

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



Features

Safety & Useful & Durability



No.4

Easy to installate

Provide M5 sheet slider nut installation accessories, put the slider nut into the slot of the ion rod, can slide left and right, and can adapt to various installation environments.

No.5

DC24V high flexible towline power cord

The standard length of the power cord is 1500mm, and the low-voltage wiring of 24 V can eliminate the aging phenomenon of the cable caused by the discharge and the impact on the peripheral equipment, and can build a highly reliable system.



No.6

Work status visualization

Green light-working normally
Blue light-Standby
Blue light flashing-commissioning/cleaning
Red light-abnormal high voltage

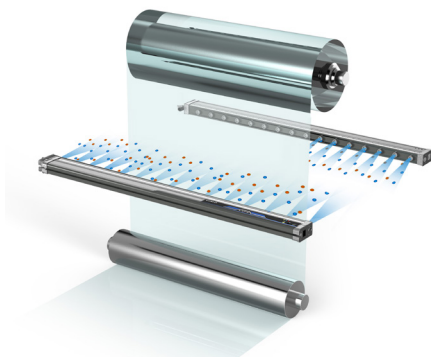


Industry application

Printing, film, inkjet, tablet,
electronics and other industries



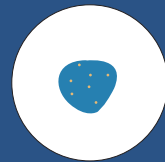
Printing Industry



Film Industry



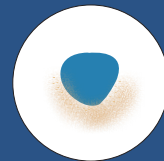
Static removal



Prevent adhesion of objects



Prevent sticking



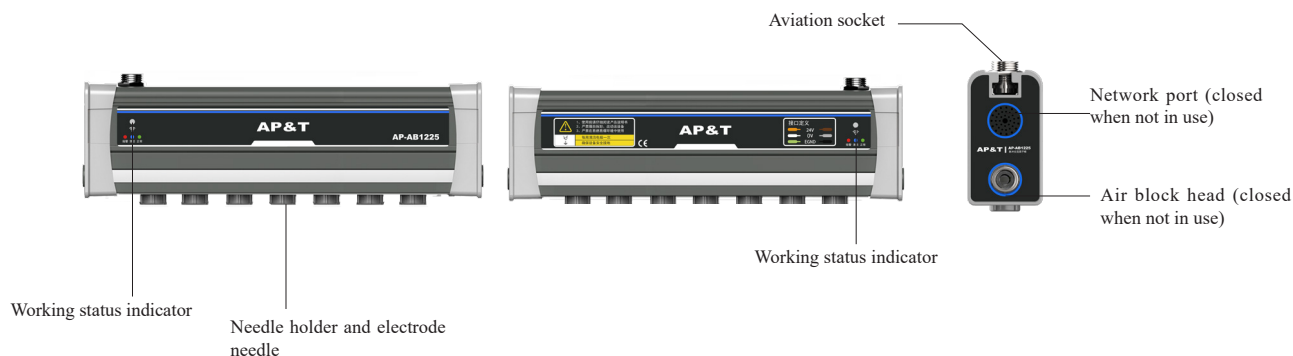
Control material fly ink



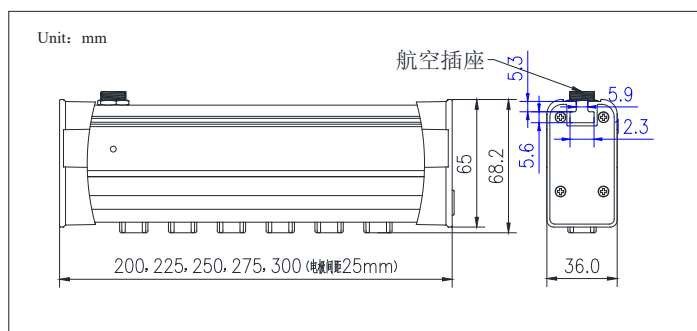
Prevent uneven scattering



Details



Installation



DC24V high flexible towline power cord wiring diagram

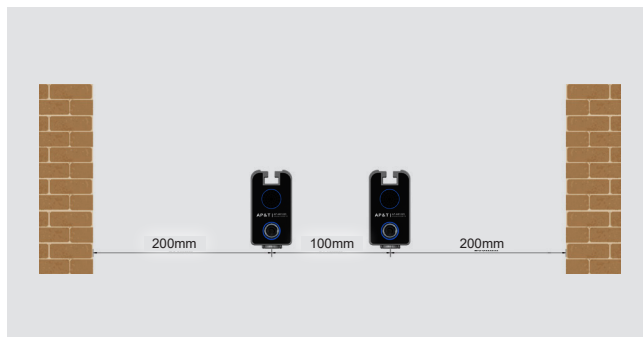
Power cord color	Information
Orange or Brown	+ 24V
White or Grey	0V
Green or Black	PE

Installation

1. Choose the best position for eliminating electricity and install the rod firmly.
2. Connect one end of the high flexible power cable to the DC24V power supply, and insert one end of the aviation plug into the aviation socket on the rod body. The wiring and panel descriptions are as shown above.

Tips

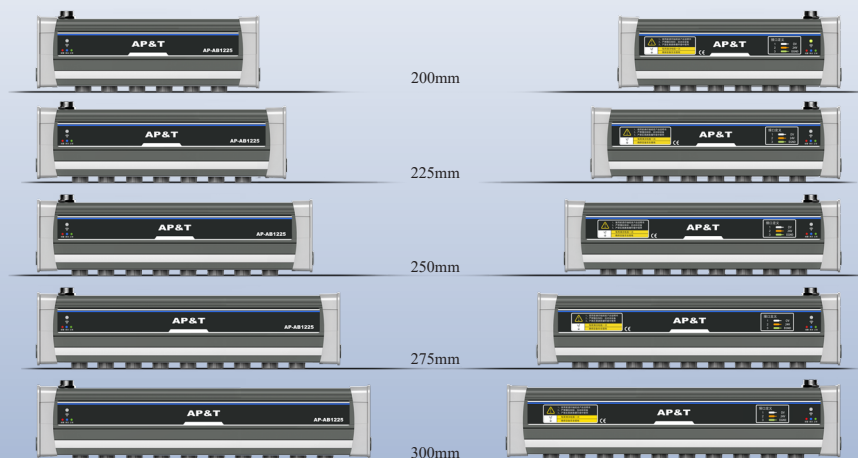
1. When using the ionizing rod, it should be placed in a static-free working area, and the installation angle should be perpendicular to the surface of the charged body.
2. The ion bar should be at least 30mm away from the metal conductor and metal ground body around the electrode. The bar body must be reliably connected to the ground wire.
3. Ion bar ground electrode is not allowed to cover other objects.
4. It is better to install two ion bars side by side with an interval of more than 100mm, and more than 200mm away from obstacles such as walls.



»»»»» Product parameters «««««

Model	AP-AB1225
Input voltage	DC 24V
Input Current	< 200mA
Power	< 5W
Output voltage	±5.5KV DC
Ion emission	Pulse AC
Emitter electrode	Tungsten alloy
Output frequency	5,10,30,55Hz; (Factory setting: 55Hz, if you need other working frequency, please contact the manufacturer)
Duty factor	5%—95%
Discharge range	L*W*H: {200, 225, 250 -300mm (Needle spacing 25mm)}*200*100mm
Installation distance	30→100mm(Can adjust the power consumption effect according to the actual installation height)
Ion balance	≤ ±30V (AVG)
Discharge speed	≤1S (Test distance100mm)
Status indicator	Green light-normal operation, blue light-standby, blue light flashing-debugging/cleaning, red light-abnormal high voltage
Operating temperature	0°C-50°C
Working humidity	< 70%
Dimensions	L*W*H: {200, 225, 250-300mm(Needle spacing 25mm)}*36*68.2mm
Ion material	Flame retardant PVC, ABS, SUS, W
Packaging accessories	M5-12*12*4 square nut; DC24V high flexible towline power cord 1500mm
Warranty period	1 Year

»»»»» Available in various sizes «««««





Speciality Creates Value

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