

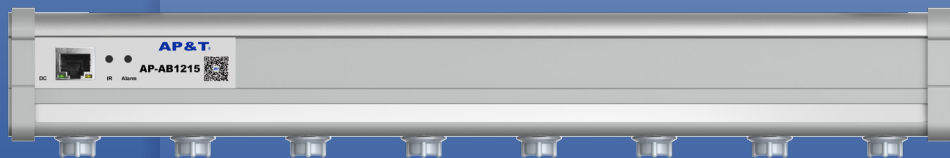
AP&T[®]

Shanghai Anping Static Technology Co.,Ltd

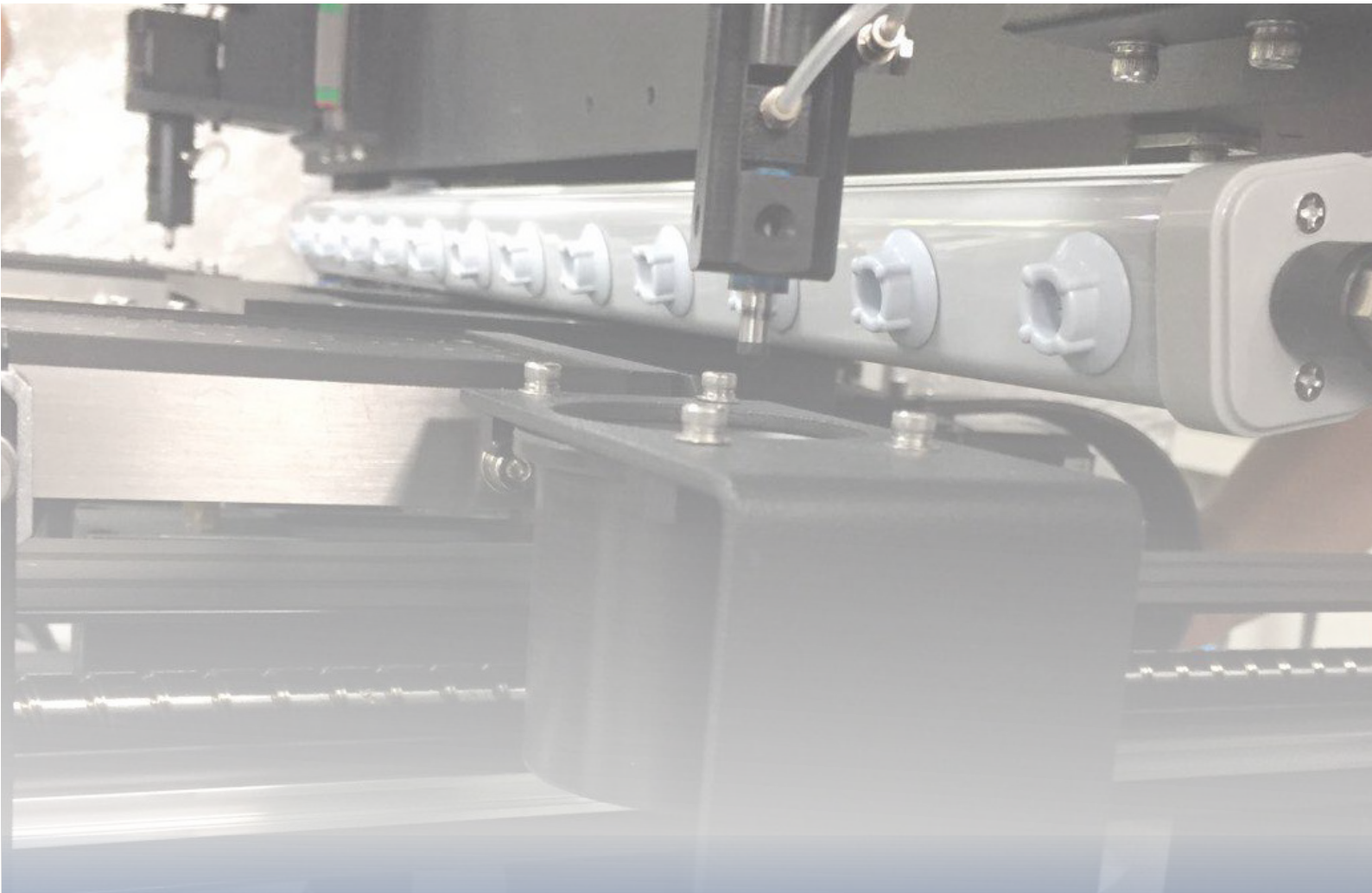
High Efficient Electroshock-proof

Intelligent Ion Bar

AP-AB1215



—AP&T—

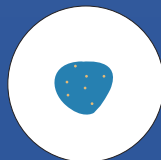


Widely used in electronics, optoelectronics,
semiconductor and other industries

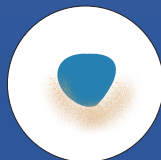
Effectively solve the problem caused by static electricity



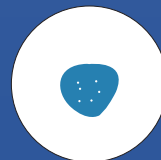
Static removal



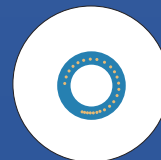
Prevent adhesion of objects



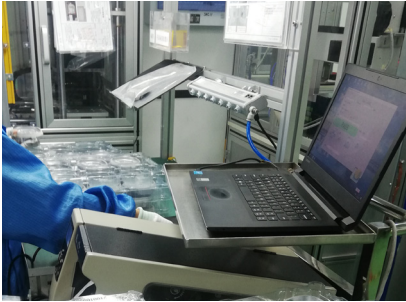
Prevent sticking



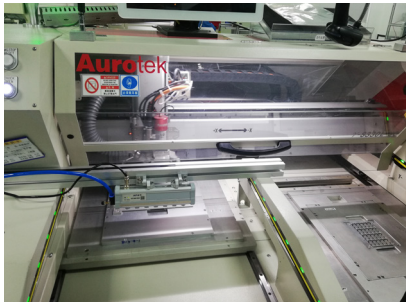
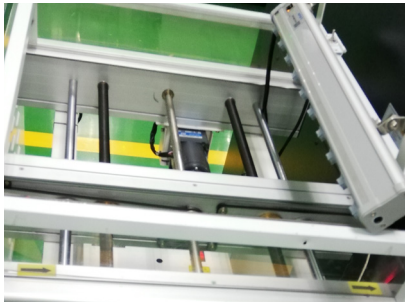
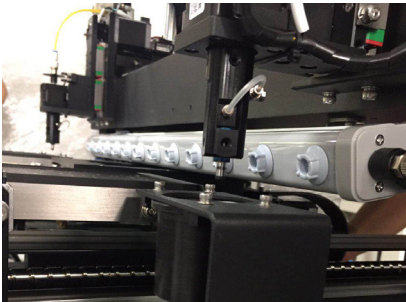
Control ink splashing



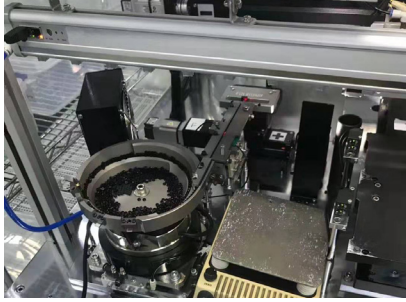
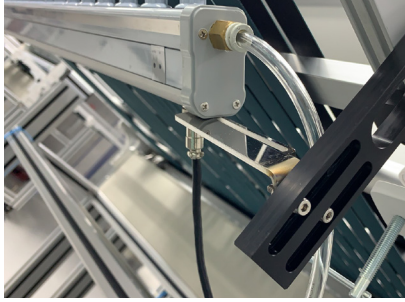
Prevent uneven scattering



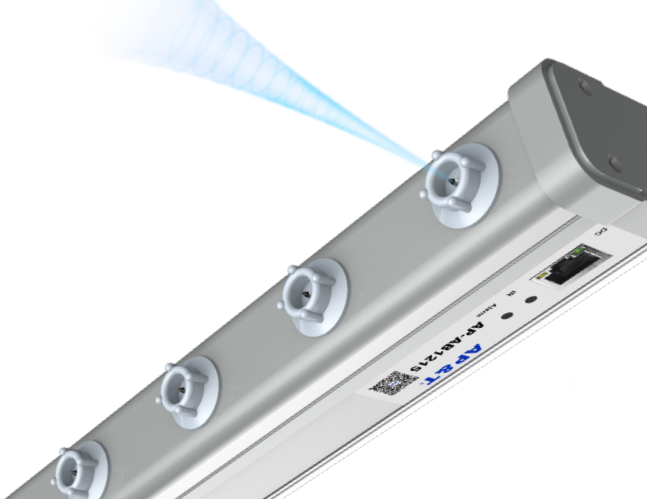
High efficient



Safe



Static removal



Intelligent Control

Cleaning time /ion balance/
ion output frequency adjustable

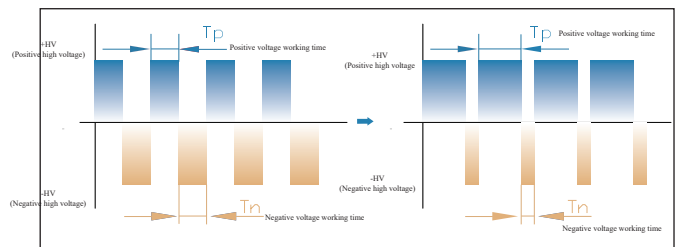


Remote control button

- "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 pressure;
- "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 5Hz;
- "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

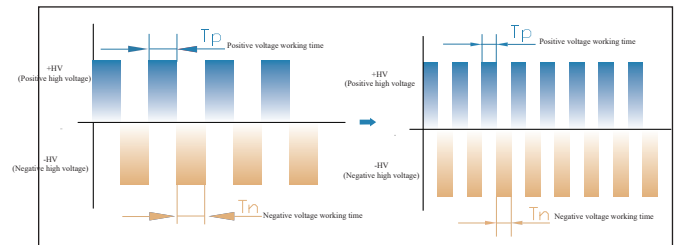
Press "IB-" when positive voltage on plate tester or target object is large or "IB+" when negative voltage on plate tester or target object is large until the ion balance reaches to ideal status. Static removing speed can be raised by adjusting the output ratio of positive and negative ion.



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.



Working frequency (Hz)	Discharge distance (mm)
50	100
30	100
20	150
10	150
5	200
3	200
1	250

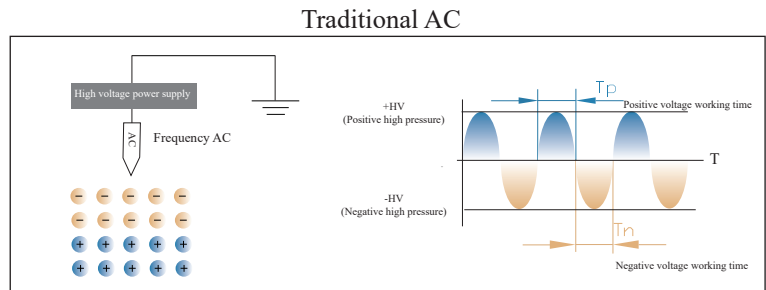
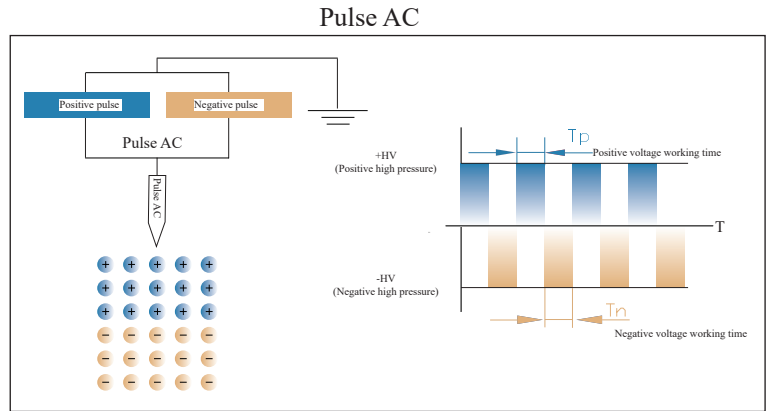
Pulse AC

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.



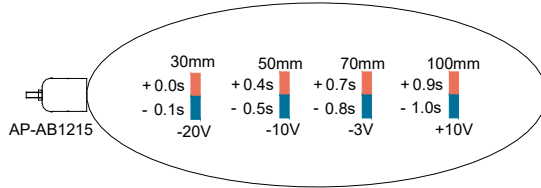
Increase T_p so that the positive voltage acting capacity becomes greater and the acting time becomes longer. More positive ions and less negative ions output to neutralize and excess negative charge on the surface of the object.



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



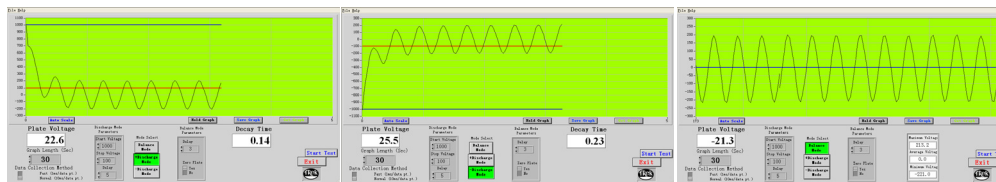
Test standard: ANSI/ESD.STM3.1, SJ/T 11446—2013

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: 200mm, working frequency: 30Hz):



Discharge distance: Discharge speed within 1 sec
when distance is 100mm
Discharge range : up to 200mm.

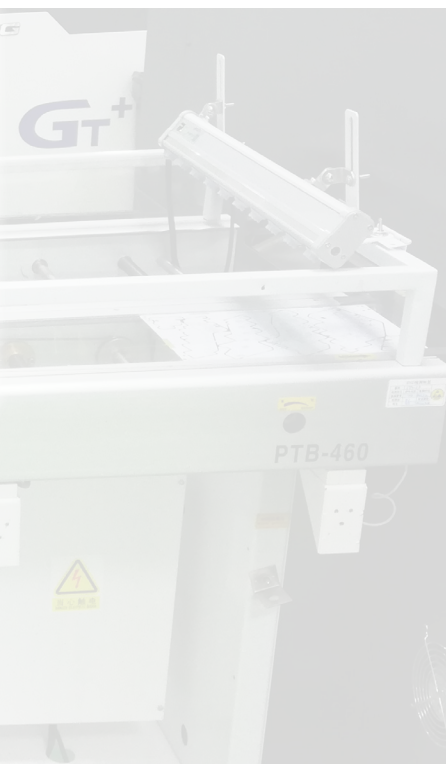
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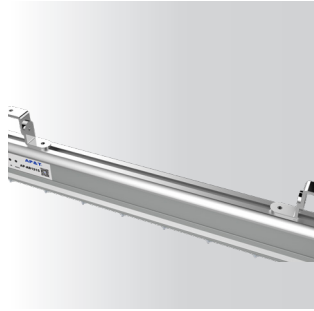
Test environment: humidity $50 \pm 5\%$; temperature $23 \pm 3^\circ C$

HAN'S LASER



Features

Safe / Easy to use / Durable



No.1

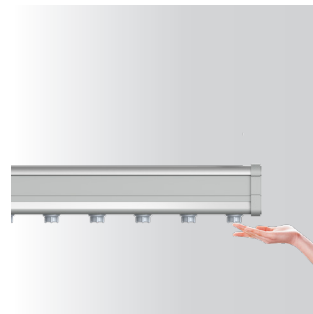
Easy installation

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

No.2

Electroshock-proof

Protection against electroshock.



No.3

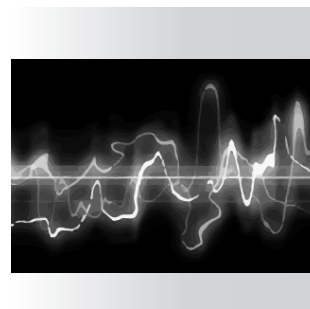
Working status visualization

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

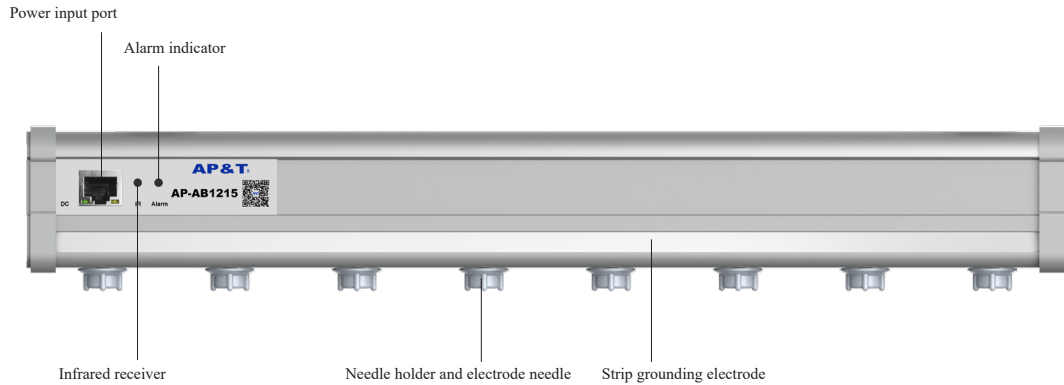
No.4

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.



Details



Installation

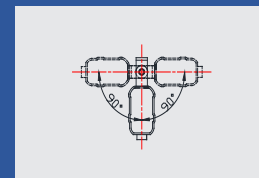
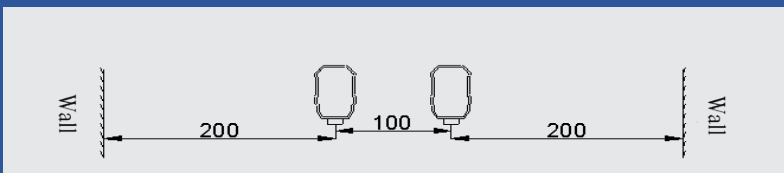
Installation steps

1. Choose the best position for eliminating electricity and install the bar firmly.
2. Insert one end of the power connection wire into the power adapter socket and the other end into the power socket on the bar body.
The wiring and panel descriptions are as shown above.
3. Connect the air source connector on the bar body to the air source generator and turn on the air source switch.
4. The network port indicator light and the ion bar panel indicator light is on green to show the ion bar working. Adjust the appropriate air source pressure and voltage parameters, output positive and negative ions to neutralize the

Power connector		
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

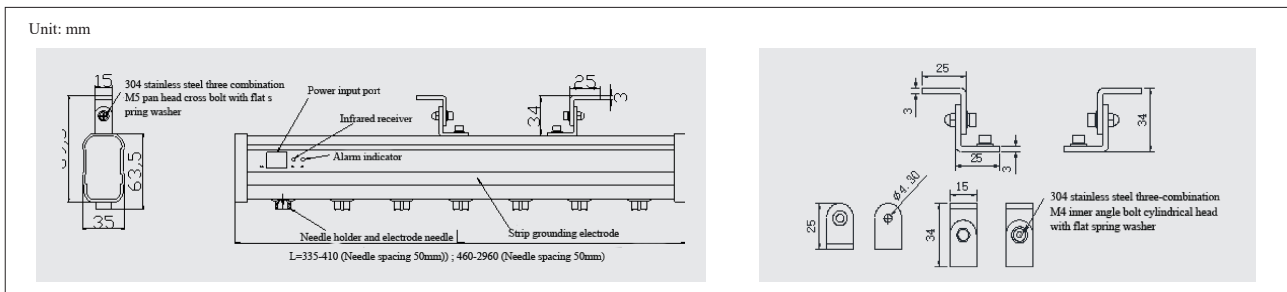
Installation tips

1. When using the ion bar, 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. Ion bar should be at least 30mm away from the metal conductor and metal grounding body around the electrode. The bar body must be reliably connected to the grounding wire.
3. Ion bar grounding electrode is not allowed to be covered by other objects.
4. It is better to install two ion bars side by side with an interval of more than 100mm.
5. The installation angle of the ion bar can be adjusted.



Specification

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; (factory 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



Ion bar size drawing

Mounting bracket size drawing

AP&T[®]

Speciality Creates Value

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