

New Product

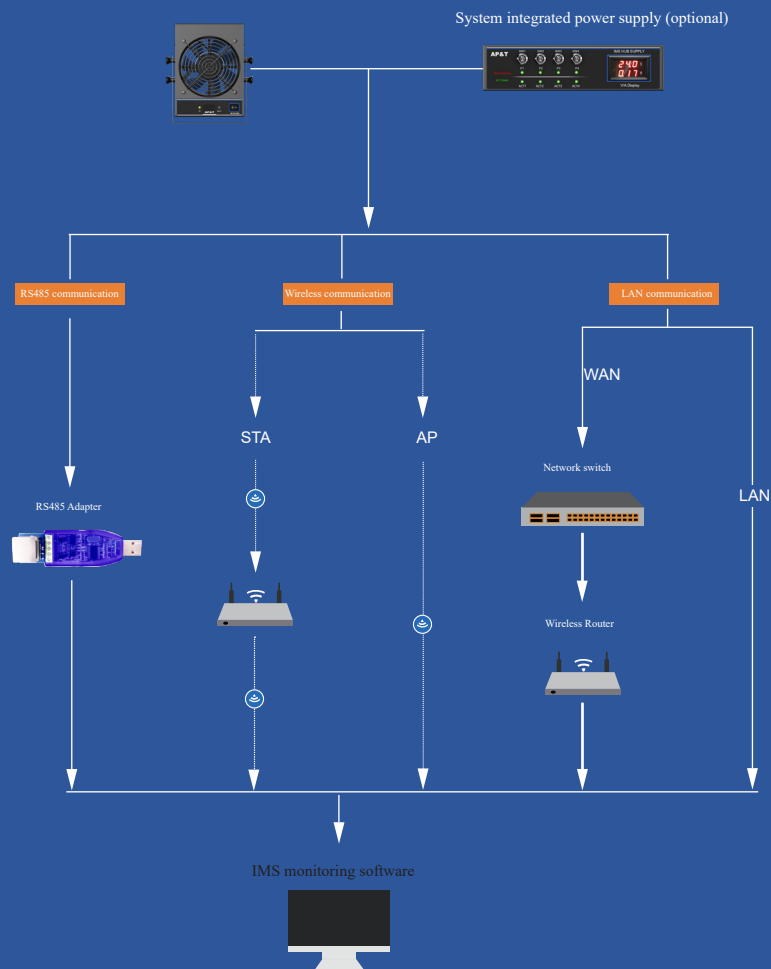
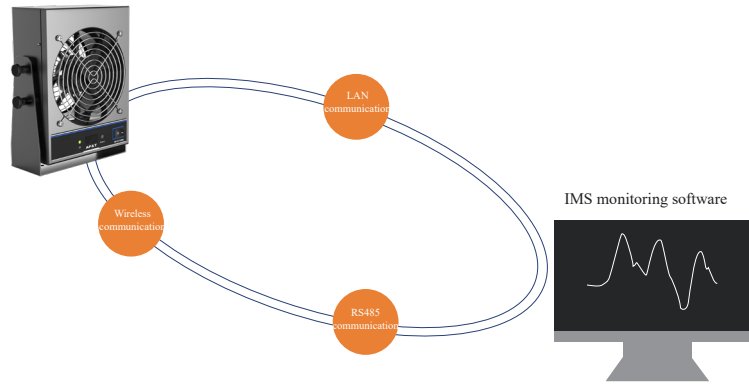
Intelligent control | Self-balancing DC Ionizing Air Blower

AP-DJ1802



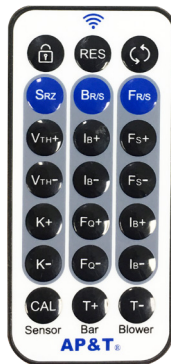
Intelligent networking

Multiple networking methods to monitor the working status of ionizing air blower online



Intelligent control

Cleaning time /Air volume output adjustable



Unlock

30s delay for operation if any key is pressed after unlocking.
Exit and lock if no key is pressed after unlocking.

Remote control button

FR/S: run and pause.
FS+/FS-: Air volume adjustment: Order from high to low is 1,2,3,4,5.
T+/T-: cleaning time adjustment, the unit is H.
CAL+"RES": Restore factory settings.

Cleaning time setting

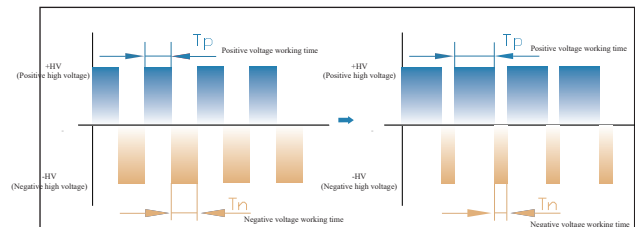
Set a reminder for the cleaning time at will. When the blue light flashes, it means ionizing air blower needs cleaning.
When using ionizing air blower, the electrode needle cleaning cycle is set according to the working environment.
Cleaning cycle should be shorten appropriately in environment with more moisture and dust.

Air volume output adjustable

There are five air volume options on the ionizing air blower. Adjust the air volume according to the installation distance of the static eliminator and the status of the target object.

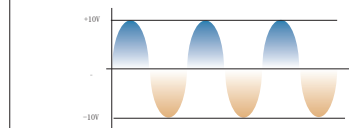
Ion balance adjustable

When the positive voltage on the surface of the flat panel detector or the target object is large, press "IB-"; when the negative voltage on the surface of the flat panel detector or the target object is large, press "IB+" until the balance or The residual voltage is adjusted to an ideal state. Balance voltage and discharge speed can be improved by adjusting the positive and negative ion output ratio.



Self-balancing function ±10V

This product has ion self-balancing function and self-balancing range is ±10V.



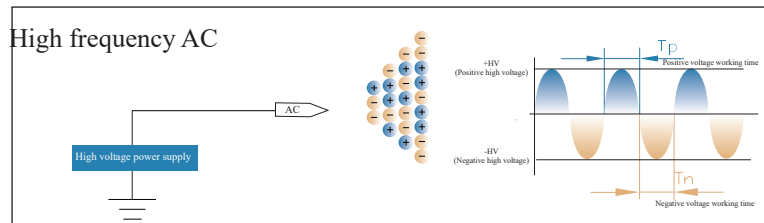
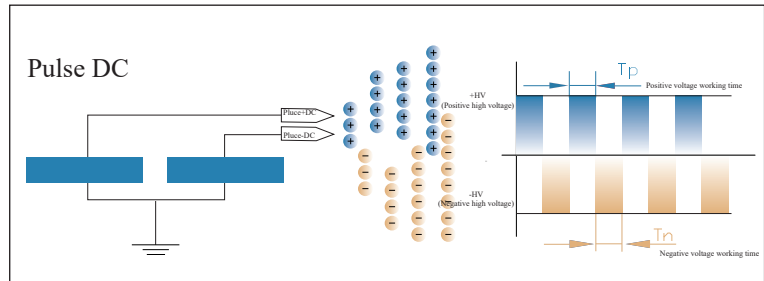
Pulse DC

The effect of static eliminating is better compare to power frequency AC ionizing air blower

Comparison with high frequency AC

The pulsed DC method alternately applies "+" and "-" high voltages to two electrode needles to generate two polar ions. The utilization rate of ion generation is high, the external electromagnetic interference is small and the pollution degree of the particulate matter in the purification environment is small.

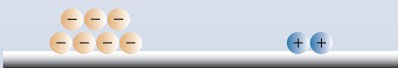
At present, many ionizing air blowers use high-frequency AC. Due to the low discharge voltage and weak electric field, the dust resistance is poor, which is easy to cause corona occlusion and unable to eliminate electricity.



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.



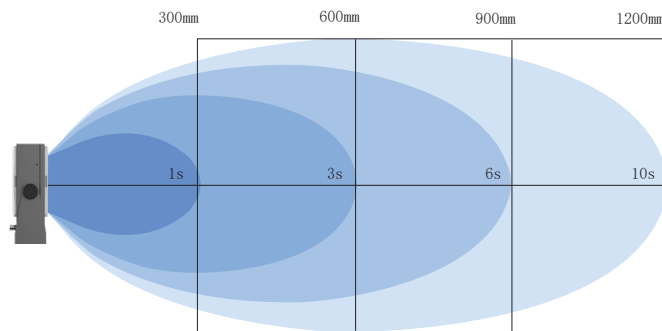
Increase T_p so that the positive voltage acting capacity becomes greater and the acting time becomes longer. More positive ions and less negative ions output to neutralize and excess negative charge on the surface of the object.



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.

High efficiency static removal

Have a clean production environment and stay away from static electricity



Static elimination distance:

Discharge speed within 1 sec when distance is 300mm.

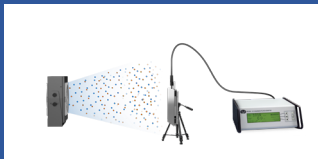
Static elimination width: up to 1200mm.

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±5%; temperature 23±3°C



Features

Safe / Easy to use / Durable



No.1

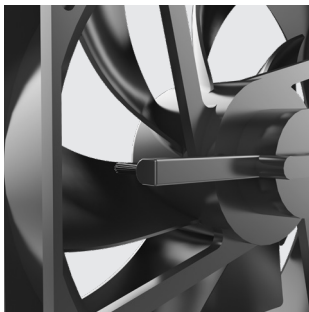
Modular structure

Simplify maintenance jobs. The net cover can be easily removed to facilitate disassembly and assembly.

No.2

8 Electrode needles

It has 8 electrode needles, longer service life;
High speed 7-blade fan with larger ion air volume.



No.3

Built-in cleaning brush

The ionizing air blower will automatically brush the needle after it is turned on.

During operation, the ionizing air blower automatically brushes the needle every 8 hours without manual brush cleaning and maintenance.

No.4

Visualization of working status

Self-cleaning operation — blue light flashes;
Normal work — green light (always in monitoring state);
Fan alarm — red light is always on;
Abnormal ion balance — red light flashes;
Blue light flashes during infrared debugging.



Features

Safe / Easy to use / Durable



No.5

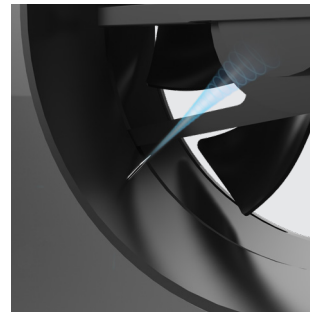
With LED display

Can display equipment address / wind speed gear / cleaning cycle.

No.6

Standard tungsten alloy needle

Tungsten alloy has a longer service life compared with titanium and silicon materials.



No.7

Built-in booster axial fan

Built-in booster axial fan, fast static removal.



No.8

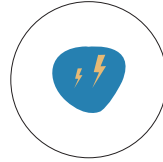
Five speed adjustment

Simply rotate the air volume adjustment button to adjust the air volume at will.

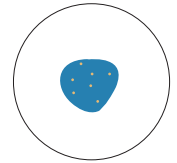


Application

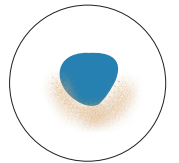
Widely used in electronics, optoelectronics, semiconductor and other industries



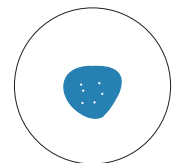
Static removal



Prevent adhesion of objects



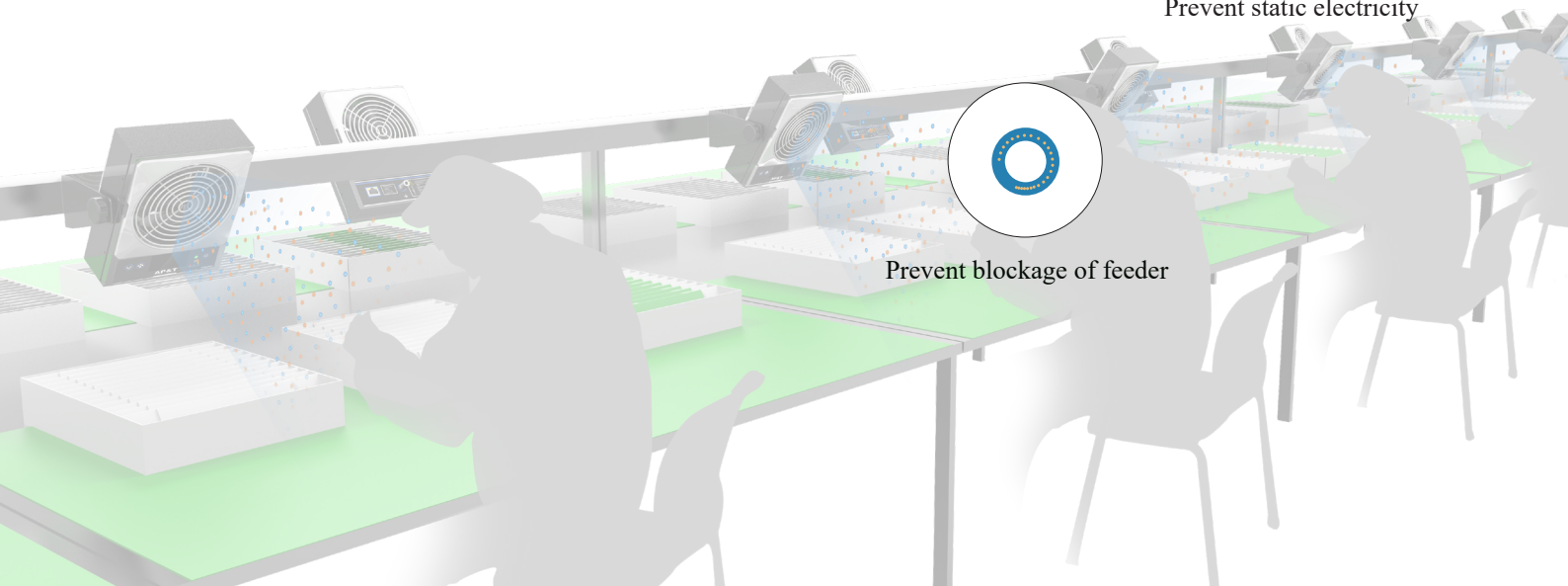
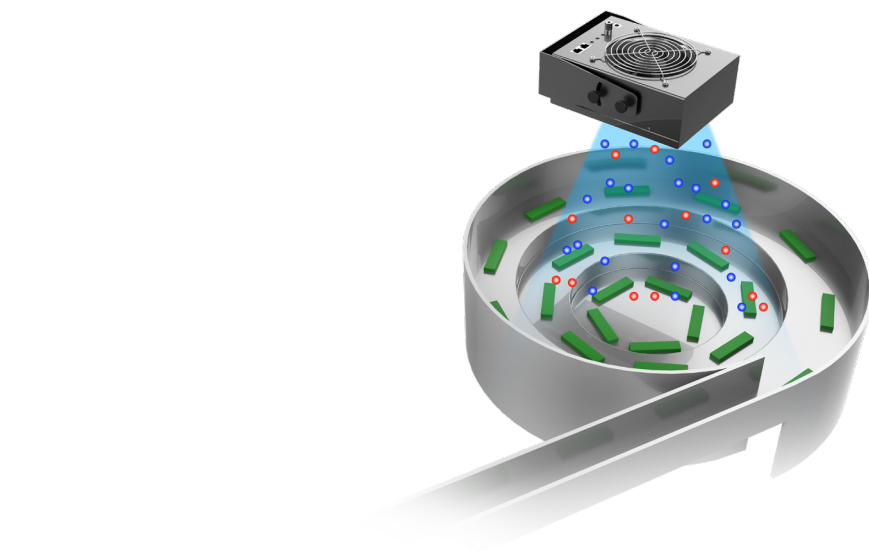
Prevent material splash



Prevent static electricity

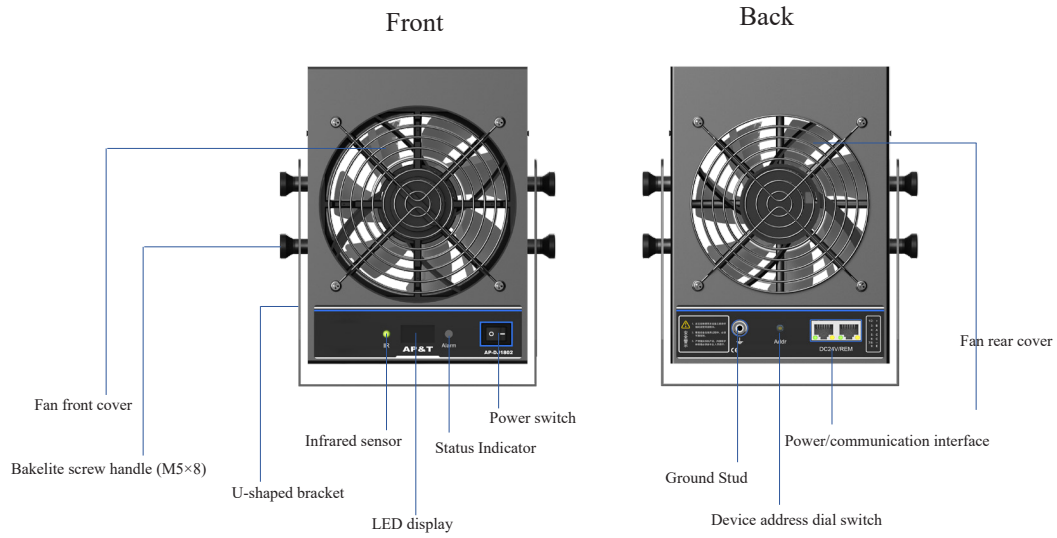


Prevent blockage of feeder



Panel function

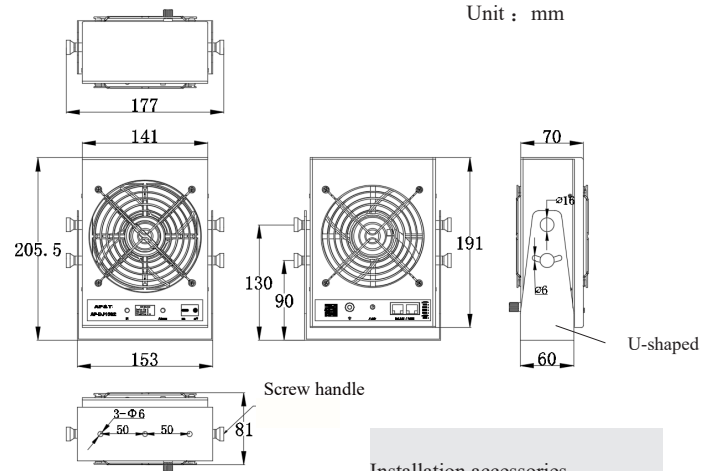
Richer functions, more intelligent



Power interface cable function information		
1、 2	Orange white-orange	+VCC
3	Blue	RS485+B
4	White-blue	RS485+A
5	Green	GND
6	White-green	GND
7	Brown	NPN-1
8	White-brown	NPN-2
9	Metal shielding shell	PE



Installation



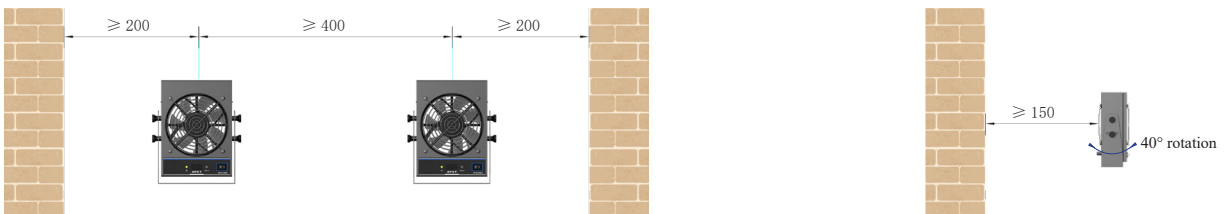
Installation accessories
 1 pair of U-shaped;
 1 pair of bakelite screw handles
 (M5×8)

Installation steps

1. Install the ionizing air blower and the matching power adapter firmly in the best discharging position.
2. Insert the power network cable into the adapter and the ionizing air blower RJ45 network port, and insert the national standard power cable of the adapter into the row socket.
3. Close the power switch on the front panel of ionizing air blower. It will automatically brush the needle after starting and the fan works normally when the indicator light is green.

Installation tips

1. Place the ionizing air blower in the work area where static electricity is eliminated and the installation angle is perpendicular to the surface of the charged body.
2. Ionizing air blower should be at least 300mm away from the metal conductor and metal grounding body. The ionizing air blower must be reliably connected to the ground wire.
3. Two ionizing air blowers should be installed side by side with an interval of more than 400mm and more than 200mm away from obstacles such as walls.
4. The air inlet is at least 150mm away from the wall, and the bracket installation angle is 40°.



»»»»» Specification «««««

Model	AP-DJ1802	
Input voltage	DC 24V (dual RJ45 interface)	
Input Current	< 0.6A	
Output voltage	DC±5KV→±5.5KV	
Power	< 14.5W	
Ion emission	DC	
Emitter electrode	Tungsten alloy	
Discharge range	750*300mm (L*W)	
Air volume	< 179CFM	
Noise	< 75dBA (150mm away from the air outlet)	
Ozone thickness	≤0.05ppm (150mm away from the air outlet)	
Ion balance	≤ ±10V	
Discharge speed	≤1.5S (300mm away from the air outlet)	
Status indicator	Power on/clean operation—blue light flashes; Normal work—green light (always in monitoring state); Fan alarm—red light is always on; Abnormal ion balance—red light flashes; Blue light flashes during infrared debugging	
Communication method	RS485	
Working temperature	0°C-50°C	
Working humidity	< 70%RH	
Dimensions	177*81*205.5mm (L*W*H)	
Shell material	Aluminum powder spraying	
Installation accessories	1 pair of U-shape aluminum powder spray mounting bracket, 2 pairs of stainless steel screw handles (M5×8)	
Adapter power	1. Interface power supply (default configuration): Input : AC100-240V 50/60Hz; Output : DC24V 2A (dual RJ45 interface) 2. Jack-type power supply (customized): Input : AC100-240V 50/60Hz; Output : DC24V 2A (5.5*2.5 single male head)	
Weight	Bare metal (including bracket) 1125g	
	Net weight (network cable, power cord, adapter, remote control)	1590g
	Gross weight	2080g
Warranty	1Year	
Certification	CE	

AP&T[®]

Speciality Creates Value

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