

Single-Head Display DC Ionizer Fan

The BFN-711S-L/W Single-Head Display DC Ionizer Fan Utilizes DC Static Elimination Technology. It Features a Touch-sensitive Switch Button Design, a High-airflow Fan with 5-speed Adjustment, Stable Performance, an Output Airflow 1.45 Times Higher Than Ordinary Fans, an LCD Display Showing ion Balance, Smart Remote Control, and a Built-in Communication Antenna for Networked Monitoring.



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► **Features:**

- Touch-sensitive Switch Buttons for Convenient and Quick Operation.
- Multiple Air Outlets; Each Outlet has 8 ion Needles For High ion Generation.
- Automatic Needle Cleaning Upon Startup, and Defaults to Cleaning Every 4 Hours Thereafter, Eliminating Manual Cleaning Maintenance.
- High-airflow Fan with 5-speed Adjustment; Output Airflow is 1.45 Times Higher Than Ordinary Fans, Ensuring Stable Performance.
- LCD Display Shows Device Address, Fan Speed Level, Cleaning Cycle, Temperature & Humidity, Cleaning Prompt, Fan Fault Alarm, and High-voltage Fault Alarm.
- Real-time Display of Balance Voltage for Each Outlet; Alarm Triggered if Exceeding the Set Threshold. Alarm Prompt Output if High-voltage Fault is 0V.
- Automatic ion Balancing Function ($\pm 10V$ Range) with Real-time Balance Voltage Display; Negative High Voltage Amplitude can be Adjusted Remotely for ion Balance Voltage Calibration.
- Fault Alarm Prompt on Display and Red LED Light Alarm for Fan, ion Balance, or High-voltage Faults.
- Ion Output Characteristics can be Adjusted Via Remote Control; Enables Wired Network Communication for Monitoring Fan Status.
- Magnetically Detachable Mesh Cover Cuts Power Instantly Upon Removal; CE Tested With Electromagnetic Protection Function.

Application Scope

Widely Applicable In Industries Such As Electronics, Optoelectronics, Semiconductor, Etc.

Product Parameters

Product Model	BFN-711S-L/W		
Input Voltage	DC 24V (RJ45 Interface)	Operating Environment	Temp: 0°C ~ 50°C, Humidity: <70%RH
Power	12W	Ion Balance	$\leq \pm 10V$
Output Voltage	DC $\pm 4KV \rightarrow \pm 6KV$	Dimensions	180*84*200.5mm (LWH)
Ion Emission	Pulsed DC	Housing Material	Powder-coated Aluminum
Emission Electrode	Tungsten	Communication Mode	Wireless Communication / RS485
Discharge Range	750*300mm (LW)	Certification	CE
Air Volume	$\leq 135CFM*1$	Signal Output	RS485 (115200bps, 8, 1, n, n) $\geq 20ms$ Open Collector: <50V, 100mA
Warranty	1 Year		
Audio Noise	Single Outlet $\leq 58dBA$ (Measured 1000mm From Outlet)	Adapter Power	Input: AC100 - 240V 50/60Hz Output: DC24V 2A (Dual RJ45 Interface)
Ozone Concentration	$\leq 0.05ppm$ (Measured 150mm From Outlet)		
Discharge Time	$\leq 1.5s$ (Measured Directly 300mm Below Outlet)	Status Indicator	Startup/Cleaning - Blue Light Flashing
Net Weight	1.35kg (Fan Body and Mounting Bracket Only)		Normal Operation - Green Light (Constant Monitoring)
Mounting Accessories	1 Pair U-shaped Powder-coated Aluminum Mounting Brackets 1 Pair Bakelite Screw Handles (M5x8)		Fan Fault Alarm - Red Light ON
			Balance Voltage Exceeded Alarm - Red Light Flashing
			High Voltage Fault Alarm - Red Light Flashing
		Infrared Debugging/Cleaning Prompt - Blue Light Flashing	