

# INSTRUCTION

JH1201D

Smart Ionizing System

with LCD Touch Screen/Auto Clean

Real Time Ion Balance monitoring



## **SAFETY INFORMATION**

Please read, understand, and follow all safety information contained in these instructions prior to the use of this device. Retain these instructions for future reference.

Consult this User' s Guide in all cases where Safety Symbol is used, to find out the nature of the potential HAZARD and any actions to be taken. If the equipment is used in a manner not specified in this User' s Guide, the protection provided by the equipment may be impaired.



## **WARNING**

**To reduce the risks associated with hazardous voltage which, if not avoided, could result in serious injury or death:**

- Be sure that the ground terminal is connected to a grounded cable and the terminal knob tightened. Failure to do so may result in electrical shock.
- Do not position the equipment such that it is difficult to disconnect the plug.
- When doing electrode needle maintenance, be sure to disconnect the AC plug from the outlet. Do not connect or disconnect the power plug with wet hands as doing so puts you at risk of electrical shock or injury.

To reduce the risks of fire and explosion which, if not avoided, could result in serious injury or death: The unit does not incorporate explosion-proof

specifications. Never attempt to use it in a place where there are flammable or volatile gases. Doing so may ignite the gases and cause an explosion.

To reduce the risks associated with hazardous voltage and fire which, if not avoided, could result in serious injury or death:

Never attempt to disassemble or modify the unit, or alter or repair circuits, as the unit contains components that generate high voltage. Do not directly touch the inside of the machine, including the electrode needles. Doing so may result in severe or fatal injury due to the hazardous high voltage generated internally, or cause a fire or malfunction of the unit.

## **SECTION ONE FEATURES:**

◆LED TOUCH SCREEN display technology, the display interface is full and bright, compact and intuitive, real-time monitoring the ion balance. It has a multi-level function menu that can be manually operated, fast and convenient.

- ◆ Ion balance correction technology, through the air outlet sensing device, automatically corrects the best effect when the ion deviates from the equilibrium state. You can compensate 100V by touch screen positive and negative, so that the corrected ion balance can reach the best static elimination performance.
- ◆ Automatic cleaning function. The cleaning interval can be set by software. The default cleaning brush will automatically clean the ion emitting needle two times every two hours.
- ◆ Large air volume, range from one to ten classes air control technology, using large air volume DC fan, eliminating static electricity quickly and fast.
- ◆ Unbalanced alarm prompt technology, alarm threshold voltage can be set manually. When the ion balance voltage is out of balance and exceeds the set threshold voltage, the unit will automatically alarm.
- ◆ Optional warm air function. Temperature is adjustable.

## **SECTION TWO PRODUCT SPECIFICATION**

Input Voltage: 220V 50Hz/110V 60Hz– DC24V

Power Consumption: 15W 110V/0.5A; 220V/1A

Operating Temperature:  $-10^{\circ}\text{C} \sim +45^{\circ}\text{C}$

Emitter Point Cleaning:  $360^{\circ}\text{C}$  automatic cleaning (default: 2circles every 2 hours)

Balance Voltage:  $\leq 15\text{V}$  (ANSI/ESD STM3.1–2015 Maximum fan speed,  
measurement taken 30 cm from fan)

Decay Time:  $\leq 2\text{s}$  ( $25 \pm 5^{\circ}\text{C}$ ,  $50 \pm 10\% \text{ RH}$ )

Ozone Level:  $< 0.05\text{ppm}$

Net Weight: Approximately 1.2kg

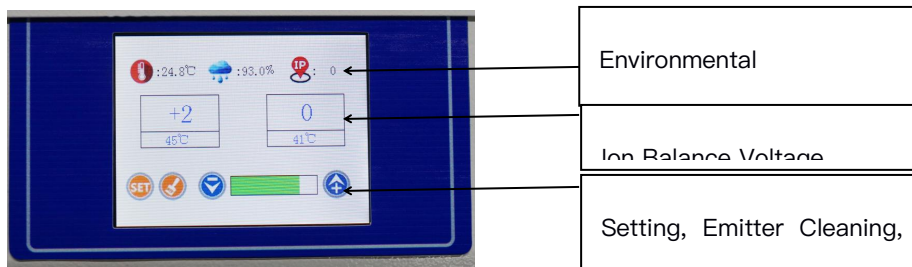
Overall Size: 230L\*95D\*180H mm

Warranty: One year

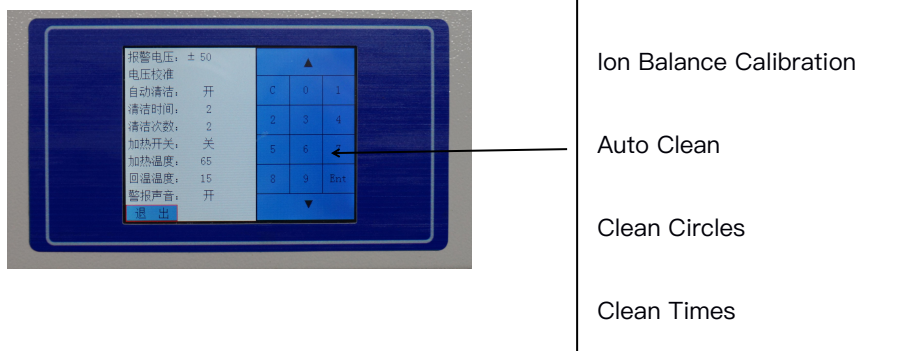
## **SECTION THREE SCREEN MENU SETTING**

3.1 Function Explanation:





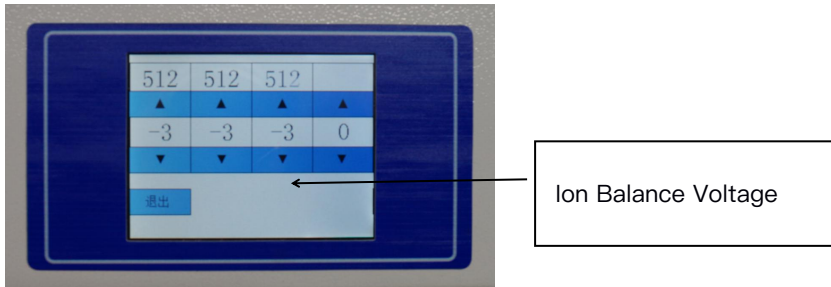
### 3.2 Setting menu details:



1) Warning Voltage: Factory default value is positive/negative 50V. If need to reset, please click it, and press “C” to clear current data, then select intended numbers of voltage from the right hand side number keyboards and press “Ent” to end the setting.

NOTE: the setting ranges from 0–99V.

2) Ion Balance Voltage Calibration: Strongly recommend professional technician to do this setting.



First of all, hand over the unit and keep distance about 300mm (or desired distance but within 900mm to make sure proper static elimination performance ) from the static charged plate meter. Make test and adjust the ion balance value from touch screen by press UP and DOWN button. After adjustment, the data show on screen will be the data tested by static charged meter. Sames steps for other distance calibration. This action is required when working distance changed.

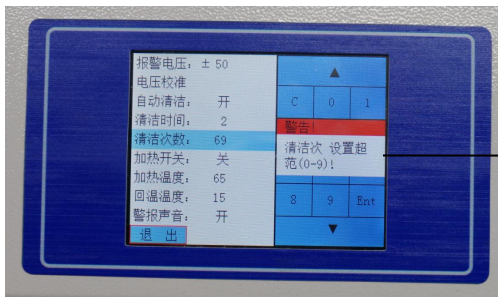
3.3 Ion Emitter Clean intervals setting.



Warning: Cleaning time setting range is from 0-24 hours

Press Clean interval and select the numbers that required then press ENT to end the setting. Default value is 0–24 hours. For example if select 2, the auto clean function will be activated every 2hours. This setting will be defined base on working environment.

### 3.4 Ion Emitter auto clean circles setting:

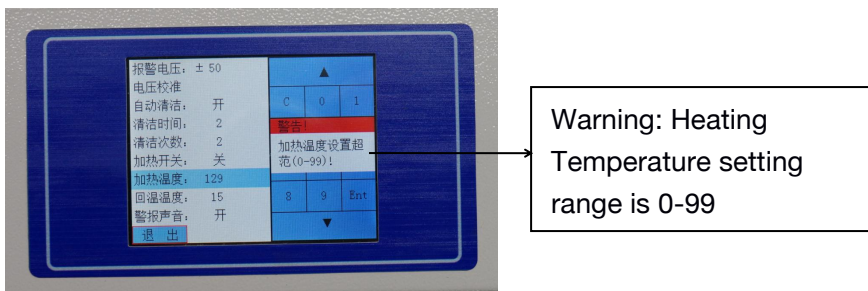


Warning: Cleaning times setting range is 0-9

Press the clean times and select the required number and press ENT to end the setting, default times is 0–9, please do setting within the range.

### 3.5 Heating function

Please press heating on/off to select on or off, heating temperature setting range is 0–99.



### Section 3.6 Reheating Temperature

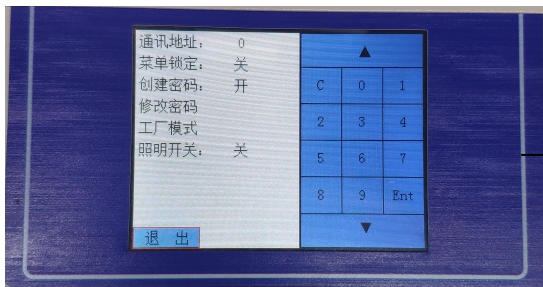
When temperature reaches to the setting degree, the unit will stop heating and reheat again when temperature drops the setting degree in “ Reheating Temperature”. The setting range is 0–15 degree.



Warning: The re-heating Temp. Setting range is 0-15

### Section 3.7 Second page of operation system

When enter to the setting page and click the next button, it comes the 2<sup>nd</sup> page as showed below:



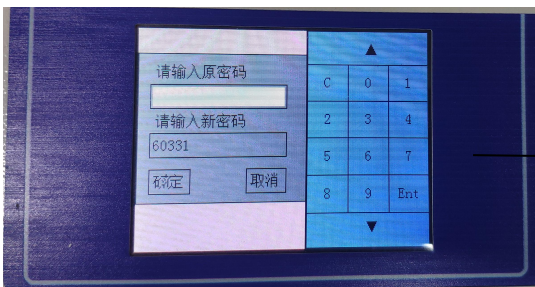
Address  
 Menu Lock  
 Create password  
 Modify Password  
 Factory Mode  
 Lighting  
 Exit

When Click Creat password, it shows as below, please enter your password to proceed next. After setting, press Ent. Then press OK



Input	password
OK	cancel

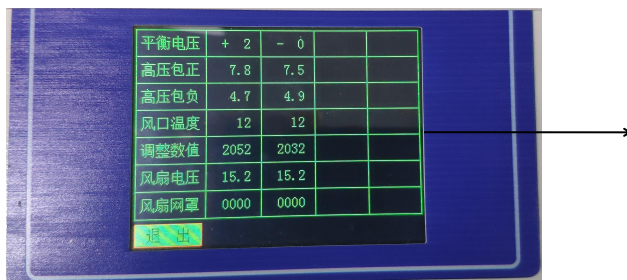
When Click modify password, it shows as below, please enter the old password to proceed next. After setting, press Ent. Then press OK



Enter	old
password	
Enter	new
password	

Factory Mode shows as below, which are the main parameter for ionizer setting reference

- Ion balance
- HV Positive
- HV Negative
- Air outlet Temp.
- Adj. Data
- Fan Voltage



平衡电压	+ 2	- 0		
高压包正	7.8	7.5		
高压包负	4.7	4.9		
风口温度	12	12		
调整数值	2052	2032		
风扇电压	15.2	15.2		
风扇网罩	0000	0000		
退出				

## Section 5 — Installation and Operation

The unit should be located 300 to 900mm above work surface with center fan directly above critical area. There should be no cross flow of air between unit and work surface. Drafts from air conditioning or heating air outlets can affect the performance of this unit.

## **Mounting**

The unit may be mounted using adjustable mounting brackets. The mounting brackets are designed for use on a variety of surfaces. Place a lock washer and flat washer on the lock knobs and secure the unit using outer holes on mounting tab. The S hooks provide for chain mounting or mounting on wire shelving. Install overhead blower unit using outer holes on mounting tabs. Chains and mounting hardware (not supplied) must have a minimum safe working load of 15kg.

## **Section 6 Maintenance**

Keep the air snake clean and free from oil, water and particle contamination. Use air



drying and cleansing filter regulator with 5 micron filtration. Ensure that all connections, pipe work and filter regulators will allow minimum 15 CFM of air flow. Clean and purge filter regulators periodically and check for contamination in the air delivery pipe. From time to time remove the front nozzle cap by unscrewing anti-clockwise, disconnect from H.V. electric supply before removing the nozzle cap. Clean around the electrode pin with a pipe cleaner or cylindrical soft brass brush. Ensure the plastic inner lining is free from gray or black carbonized residue. The point of the electrode pin can be cleaned by pushing a pencil end eraser on to the electrode pin and rotating. Blow out the loose debris and re-fit the nozzle cap before re-connecting the high voltage supply and operating.

The ion balance voltage and static elimination time of the ion air curtain are in compliance with the ESD standard, and the static elimination time is measured

## **Section 7 Warranty and Service**

The warranty period is one year since day of purchase. Liability under this warranty is limited to service, adjustment or replacement of defective parts. This warranty does not apply to items

subjected to abuse, abnormal operating conditions, or unauthorized repair or modification.

Repair parts only will be charged after warranty period, labor cost is free.