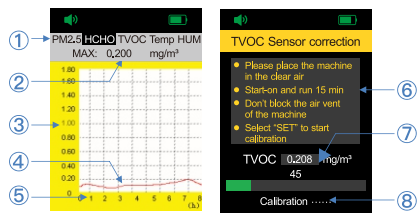


e). System setup interface

1. Select System Settings in the Settings selection interface, and press the Settings key to enter the System Settings interface.
2. System settings include: temperature unit, alarm point, history clear, sleep time, language switching, screen brightness, display style and key sound.
3. In the system setup interface, press left and right key to switch over the selected menu items, and press Settings to enter the currently selected menu items.
4. A pop-up appears after the previous step, press left and right to switch the options and press Settings to set the selected options.
5. In the system setup interface, press Back to return to the Setup selection interface.

f). History record interface

1. Select History at the setting selection interface and press Settings to enter the history interface.
2. At the history interface, press Left and Right to check the history of PM2.5, TVOC, HCHO, temperature and humidity.
3. In the History interface, press Back to return to the Settings selection interface.



- ① History Items
- ② History maximum value
- ③ Y-axis: Alarm value
- ④ History Curve
- ⑤ X-axis: Time
- ⑥ Calibration Tips
- ⑦ TVOC Real-Time Value
- ⑧ Progress bar

g). Sensor correction interface

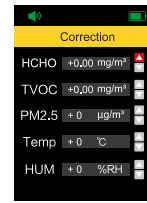
1. Select Sensor Correction at the setting selection interface, press the Setup button to enter the sensor correction interface and a prompt pop-up.
2. The Sensor correction interface contains TVOC sensor correction and real-time concentration display of the TVOC.
3. According to the prompts of the pop-up window, press the "setting" key to start the correction. Press "return" before the correction is completed to exit the correction and return to the setting selection interface.
4. Then the interface prompts "Correction Complete".
5. Under the sensor correction interface, press the Return key to return to the setup selection interface.

h). Data modification interface

1. Select the Data Correction in the setting selection interface, and press the Settings key to enter the data correction interface.
2. The data correction interface includes: 5 data correction of formaldehyde, TVOC, PM2.5, temperature and humidity. Switch the selection menu items through "left" and "right" key, and press "Setup" key to modify the corresponding data.
3. When the data is not modified, press the Return key at the data correction interface to return directly to the setting selection interface.
4. When the data is modified, press "Return" key in the data correction interface, pop-up prompt, press "Setting" key to save the modification, press "Return" key not to save the modification, and then return to the Setup selection interface.

Note:

- + Represents a previous value plus this value;
- Represents a previous value minus the value.



i). Power off

When the instrument is turned on, push the power switch down to complete the shutdown.

Alarm prompt

1. The green number display indicates good air, the yellow display indicates that the air is generally or slightly polluted, and the red display indicates serious pollution.
2. Voice alarm or prompt:
 - ✘ When HCHO concentration exceeds the preset concentration for more than one minute (threshold in the system setting), voice prompt "gas concentration exceeds the standard";
 - ✘ When the battery power is low, the voice prompt "battery power is insufficient", at this time the user

needs to charge the machine in time;

- ✘ When the gas concentration exceeds the measured range, the voice prompts "exceeds the measurement range".

9. Notices

1. Due to prolonged storage of sensors without power, their resistance will experience reversible fluctuations, which are related to the storage environment. Sensors that have been stored for a long time need to be powered on for a longer period of time before use to achieve stability; The recommended continuous charging time for a storage time of about one month is 48 hours; If it is determined that the charging time is long enough but the value is still abnormal, place the device in an outdoor environment with good air for sensor calibration. Please refer to the manual for specific operations;
2. The sensor has high detection sensitivity. Avoid substances such as spices, perfume, paint, benzene, toluene, acetic acid, hydrogen sulfide, cigarettes and alcohol during detection to avoid

abnormal sensor measurement;

3. This device has a charging protection function. If used for continuous monitoring of the environment, the device can be connected to the power supply for a long time without affecting the battery life;
4. Do not place the equipment in an environment with high concentrations of dust and pollutants for a long time;
5. The equipment must not withstand excessive impact or vibration;
6. The device mainly relies on the air inlet and outlet on the back for air circulation. When using, please stand the device upright without any obstruction on the back. During testing, do not blow air directly or block the testing port to avoid affecting the sensor's operation;
7. The sliding switch in the upper left corner of the device controls the device to turn on and off. When the battery is depleted, the device will automatically shut down. In the shutdown state, regardless of the position of the sliding switch, the device will automatically enter the startup

detection state when an external USB power supply is inserted. During this process, the device will remain in the startup detection state and the screen will not sleep;

8. When the device is charged with high current, there will be a certain amount of heating, and the temperature sensor measurement result will increase, which is a normal phenomenon;
9. When using a 5V-1.5A charger for charging, the charging time is 4 hours, and the standby time after the device is fully charged is greater than 6 hours;
10. Indoor testing requires closing doors and windows. The testing time for formaldehyde and TVOC in rooms is about 60 minutes, and the testing time for small spaces such as cabinets and drawers is about 3-15 minutes;
11. The recommended operating temperature range for the equipment is 0-50 °C. If the operating temperature is not within this range, it may cause abnormalities, such as decreased battery power, deviation in readings, and abnormal display.

Air Quality Detector

Operation Manual



1. Product Introduction

It is a high-performance home air quality detector, mainly used to monitor PM2.5, HCHO, TVOC, CO and CO2 gas concentrations, and temperature and humidity.

The instrument adopts high-precision laser dust sensor, electrochemical HCHO sensor, semiconductor air quality sensor and temperature and humidity sensor, which has the characteristics of true and reliable measurement data and stable performance.

The instrument is equipped with a 3.2-inch color LCD display and a live voice alarm prompt.

The instrument keeps data records for the last 8 hours and can be viewed through the history interface.

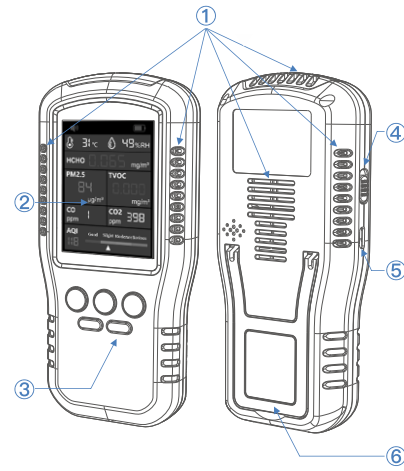
3.Applications

This product is suitable to air concentration testing in confined spaces like home, wooden furniture, leather goods, office space and interior.

4.Main Features

- ※ The 3.2 inch Color LCD display.
- ※ PM2.5, HCHO, TVOC concentration, and temperature and humidity were measured in real time.
- ※ Built-in memory, recording data for the last 8 hours and viewing through the interface.
- ※ Battery power is continuously monitored, and with a low power reminder function.
- ※ With live-person voice prompt and alarm function.
- ※ Free switching between Chinese and English.
- ※ One-click on / off voice function for convenient operation.

6.Technical parameter



- ① Vent
- ② Display screen
- ③ Function keys
- ④ Power switch
- ⑤ Type-C interface
- ⑥ Support frame

8.Operation notice

a). Power on

When the instrument is turned off, push the power switch up, enter the preheating interface, then enter the main interface.

b). Public Information

When the instrument is turned off, push the power switch up, enter the preheating interface, then enter the main interface.

c). Main interface

Main interface: real-time measurement of temperature and humidity, HCHO concentration, PM2.5 concentration, TVOC concentration, CO and CO2 concentration, and AQI indication.

d). Set up the selection interface

- 1.Under the main interface, press the "Settings" key to enter the Settings selection interface.
- 2.The Setup selection interface includes: system settings, history, sensor correction, and data correction.
- 3.Press the left & right button to switch the selection menu items, press the Settings key to enter the corresponding interface, and press the Return key to return to the main interface.

2. Indoor Air Quality Standards

Parameter	Unit	Standard Values	Remark
HCHO	mg/m ³	0.10	1-hour average
TVOC	mg/m ³	0.60	8-hour average
PM2.5	μg/m ³	≤35	Excellent
		35-115	Good
		115-150	Normal
		>150	Bad

Note:

According to GB/T18883-2002 Indoor Air Quality Standard and HJ633-2012 Ambient Air Quality Index (AQI) Technical Regulations (Trial)

5.Technical Parameter

a). Measuring range

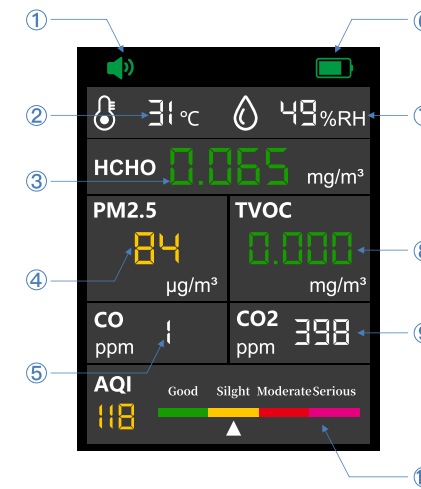
HCHO	0-1.999mg/m ³
TVOC	0-9.999mg/m ³
PM2.5	0-999μg/m ³

b). Other parameters

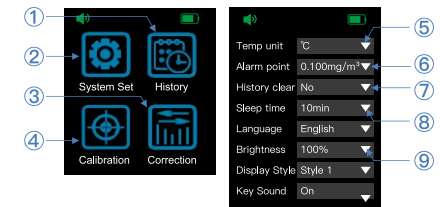
Screen	3.2 inch color LCD display, resolution of 320 * 240
Working temperature	0℃ ~ +50℃
Working humidity	≤90% RH
Power supply	1500mAh lithium battery
Charger	5VDC-1.5A
Charging interface	Type-C
Weight	about 240g
Size	172.3*81.8*30mm

7.Key description

	Mute	Cycle to switch the sound on/off
	Setting	Select, confirm
	Return	Exit, Cancel
	Left	Switch over the menu items
	Right	Switch over the menu items
	Power supply	Switswitch



- ① Speech state
- ② Temperature
- ③ HCHO concentration
- ④ PM2.5 concentration
- ⑤ CO concentration
- ⑥ Battery capacity
- ⑦ Humidity
- ⑧ TVOC concentration
- ⑨ CO2 concentration
- ⑩ Air quality level



- ① History records
- ② System settings
- ③ Data correction
- ④ Sensor correction
- ⑤ ℃/F
- ⑥ 0.100mg/m³, 0.200mg/m³, 0.300mg/m³
- ⑦ Press "SET" after choose Clear
- ⑧ 1min/5min/10min
- ⑨ 10%-100%