

Temtop

Elitech Technology, Inc (US)
1551 McCarthy Blvd, Suite 112
Milpitas, CA 95035
www.elitechustore.com
sales@elitechus.com
Made in China

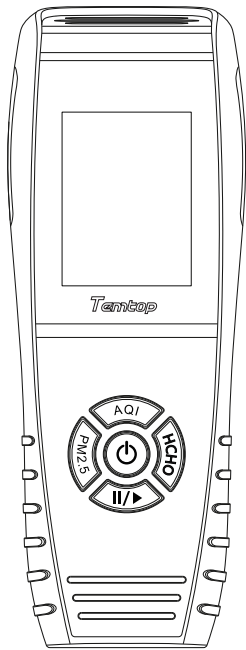
Product Overview

Laser particle multi-functional detector can accurately detect indoor air quality. Adopting the high-precision electrochemical formaldehyde sensor and laser particle sensor, it can directly transform the concentration of pollutants in the air into visual data and provide air quality for you to effectively safeguard the health of your family.

Application Scope

At home, office, cab, etc.

Product Appearance



Product Specifications

- Name: Laser particle multi-functional detector
- Model: LKC-1000E/1000S/1000S+/1000(US) (refer to appendix for specific functions)
- Display mode: TFT color LCD screen



- Battery voltage: 3.7VDC
- Overall dimension: 177*65.5*32
- Power adapter:
 - Output voltage: DC5V
 - Output current: 1A
- Operating environment:
 - Temperature range: 0-50℃
 - Humidity range: 0-90% RH
 - Atmospheric pressure condition: 1atm
- Measurement index and range:
 - PM2.5 measurement technical index
 - Range: 0-999ug/m³
 - Resolution: 0.1ug/m³
 - PM10 measurement technical index
 - Range: 0-999ug/m³
 - Resolution: 0.1ugm³
 - Formaldehyde measurement technical index
 - Range: 0-5mg/m³
 - Resolution: 0.01mg/m³

Health Parameters Guide

Status Monitor	Good	Normal	Hazardous
PM2.5(China)	<75	75≤value≤200	>200
PM2.5(USA)	<35	35≤value≤200	>200
Formaldehyde	<0.1	0.1≤value≤0.3	>0.3

Note: PM2.5(USA) is the USA standard calibration value

Operation Method

1. Turn on/off the detector



Press and hold the power button for 2 second to turn on/off the detector.And no operation for 1h, the detector will be turned off except for the recording curve display interface.

2. Detect the concentration of PM2.5, PM10 and formaldehyde indoors



Turn on the detector and put it in the environment which needs testing, then the system will automatically detect the concentration of PM2.5, PM10 and formaldehyde.

3. Power indication

The detector has the function of testing the battery power. When it is “”, the battery is full; When it shows “”, the battery is low. Please charge.

Button function

Button	Model	Functional description
AQI	LKC-1000E	Press it and the system will enter AQI index display interface
	LKC-1000S LKC-1000S+ LKC-1000(US)	Press it and the system will enter AQI index , temperature, humidity display interface
PM2.5	LKC-1000E LKC-1000S	Press it and then the system will enter PM2.5 display interface; Press it again, the system will enter PM10 and particles display interface.
	LKC-1000S+ LKC-1000(US)	Press it and then the system will enter PM2.5, PM10 and particles integrative display interface; Press it again, the system will enter PM2.5 recording curve display interface.
HCHO	LKC-1000E LKC-1000S	Press it and then the system will enter formaldehyde display interface.
	LKC-1000S+ LKC-1000(US)	Press it and then the system will enter formaldehyde and VOC display interface; Press it again, the system will enter formaldehyde recording curve display interface.
II/▶	All types of LKC-1000 series	Under the mode of “Running”, if you press it, the system will enter detection-pause mode and all values are maintained; Under the mode of “Hold”, if you press this button, the system will reenter real time detection mode.

Note: When the system enters the recording curve display interface, the data is updated every 3s under the abscissa 0-72s; When the abscissa is 0-24min, the data is updated every 1min; When the abscissa is 0-120min, the data is updated every 5min; When the abscissa is 0-12h, the data is updated every 30min.

Operation Notice

- The sensor used to detect PM2.5, PM10 and particles adopts laser detection theory, so objects like battings and hair should be prevented from entering the detector to avoid influencing the accuracy of test data.
- Don not put the detector in the environment where the concentraiton of particles is more than 500ug/m³ and that of formaldehyde is over 1.0mg/m³ for long time. Long-time exposure to high-concentration air pollutants will damage the sensor and make it work improperly.
- Please put the detector in a ventilated environment for 6 hours when you use it for the first time to avoid the influence of micro interfering gas inside the package.
- Avoid contact with organic solvents which include silica gel and other adhesives, paintings, drugs, oil and high-concentration gases.
- Avoid using the detector in humid environment to make sure the accuracy of test data.

- Avoid bump, strike and drop.
 - Do not cover the detection port and air outlet port when using the detector.
 - Be cautious of cross interference.
- Formaldehyde sensor adopts high-precision electrochemical sensor. Due to its electrochemical reaction characteristic, the sensor may react to other gases besides the target gas. Please avoid using the detector in the environment containing the following gases to guarantee the accuracy of data.

Gas	Concentration	Output Concentration
Ammonia	50ppm	0ppm
Benzene	100ppm	0.1ppm
Chlorine	10ppm	0.1ppm
Chloride	5ppm	0.1ppm
Acetone	100ppm	0.2ppm
Ethylene oxide	10ppm	0.5ppm
Sulfur dioxide	20ppm	0.8ppm
Hydrogen sulfide	100ppm	3.7ppm
Hydrogen	450ppm	5ppm
Ethanol	131ppm	5ppm
Methanol	42ppm	5ppm

- It is normal to display a higher value on the detector when it is turned on for the first time or unused for a long time. Put it in a ventilated place to accelerate data recovery when you use it for the first time.
- Before detection, please keep the room airtight for 10 minutes. The detector will provide more accurate data. Please take the average value of multiple points de-

cted in different places of the room to get its overall air quality.

Fault Description

Display problem: please check the battery power. If it still cannot display, please contact the service center.
 Data problem: Charge the test environment and restart the detector . If the problem still cannot solved, please contact the service center.

Packing List

Main machine.....1 Set
 USB cable.....1 Piece
 User manual.....1 Piece

Appendix: the product functionality of various types of LKC1000 series

Model	Functionality
LKC-1000E	HCHO + PM2.5 + PM10 + particles + AQI
LKC-1000S	HCHO + PM2.5 + PM10 + particles +AQI + temperature + humidity
LKC-1000S+	HCHO+VOC+PM2.5+PM10+particles+AQI +temperature+humidity+recording curve

Maintenance Record of Laser Particle Multi-functional Detector

Date of maintenance	Problem description/ problem reason/ treatment result	Spare parts used	Date of inspection	Signature of maintenance personal