

Laser PM2.5 Monitor specification

Product model: SDL301
Version: V1.0



CE
FCC
RoHS

Nova Fitness Co.,Ltd

2015-10-9


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
Overview



- Inlet port: Collecting the tested air;
- Display: Display the value of PM2.5 concentration, PM10 concentration, the battery , time , and the purification efficiency.
- Panel:


Power button  : long press to turn on the instrument, then the instrument will turn off if you do it again;

Switch button  : be used to switch the function of the instrument, you can this button to record the sampling time or modify system time;

Pause/Run button  : be used to pause or run the


detection function

Operation instruction 【Display 1】

	Measuring
PM2.5:	58.6 $\mu\text{g}/\text{m}^3$
PM10:	86.5 $\mu\text{g}/\text{m}^3$
08:	30: 15

- You can measure the concentration of PM2.5 and PM10 in the measuring interface after the instrument start up.
- Press the "Pause/Run button" can suspend or run data acquisition function of the instrument.

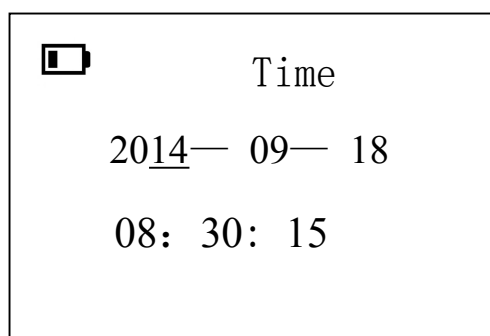
Operation instruction 【Display 2】

	Measuring
<hr/>	
1: 112.1	2: 13.6
PM2.5: 13.6	$\mu\text{g} / \text{m}^3$
<hr/>	
APR:	87.9 %

- If you want to measure the purification efficiency, you can press the "Switch" button to compare the air quality after and before.
- When you first press the "Pause/Run " button , it will record the measurements of state 1 and the instrument is in a suspended state; Press the "Pause/Run " button again , it will

record the measurements of state 2 ,at the same time, the instrument will calculate the purification efficiency automatically.Now you will re-enter state 1 by pressing the "Pause/Run " button .

Operation instruction 【Display 3】



- You can modify the time by pressing the “Switch” button twice.
- Users can modify time according to the concrete situation,here comes the modification method :

Long press "Switch " button to select items that need to be modified, such as year, month, day, hours, minutes, seconds;Short press the "Pause/Run " button to set the value .Each time you press the button the value will be added one.

Characteristics

- Accurate : Using the technology of laser detection it's responsive and accurate;

- Real-time monitoring: It will refresh the data automatically per second and monitor air quality all-weather ;
- Multi-purpose: display time, concentration of PM2.5 and PM10 and purification efficiency in real-time, it is convenient and practical;
- LCD display: digital LCD display, simple and intuitive;
- Simple operation: it is easy to use with three key operational;
- Quick response: with independent laser sensor and built-in fan it reads fast and is stable;
- Interface: it can draw dynamic curve of PM2.5 based on the data transmitted by USB;
- Silent: noise reduction technology, you can use it indoor or outdoor at ease;
- Low power consumption: long battery life, can be used for 12 hours continuously.
- Certification: products have passed CE/FCC/RoHS certification.
- Data storage: up to 144 hours of data can be stored.

Scope of application

Suitable for indoor air and car purifiers, fresh air system purification detection testing fields;

Home, office, club, classroom, hotel , hospital, car, laboratory and other places.

Working principle

Laser PM2.5 monitor SDL301 works according to the principle of laser detection :

A dedicated bunch of specific laser module when particles pass by, the signal will be detected by the super sensitive digital circuit, the particle counting and size is obtained from module, signal data by intelligent analysis and recognition, according to professional calibration technology the particle information is converted, and get value with the official unit.

Laser PM2.5 monitor SDL301 with the independent laser sensor and built-in fan is sensitive, responsive ,stable and continuously.

Technical Parameters

No	Item	Parameter	Note
1	Measurement parameters	PM2.5,PM10	
2	Range	PM2.5:0-2999.9 $\mu\text{g}/\text{m}^3$ PM10:0-5999.9 $\mu\text{g}/\text{m}^3$	
3	Power supply voltage	5V	

4	Battery capacity	3000mAh	
5	Charging current	1A	
6	Operating temperature	5-45°C	
7	The highest resolution	0.1 µg/m ³	
8	Relative error	Maximum of ± 20% and ±30µg/m ³	25°C, 50%RH
9	The minimum of particle diameter	0.3 µm	
10	Power	1 W	
11	Working time	12 h	
12	Certification	CE/FCC/RoHS	

Product specifications

1.Product size

L*W*H=203.7*100*35.5 mm

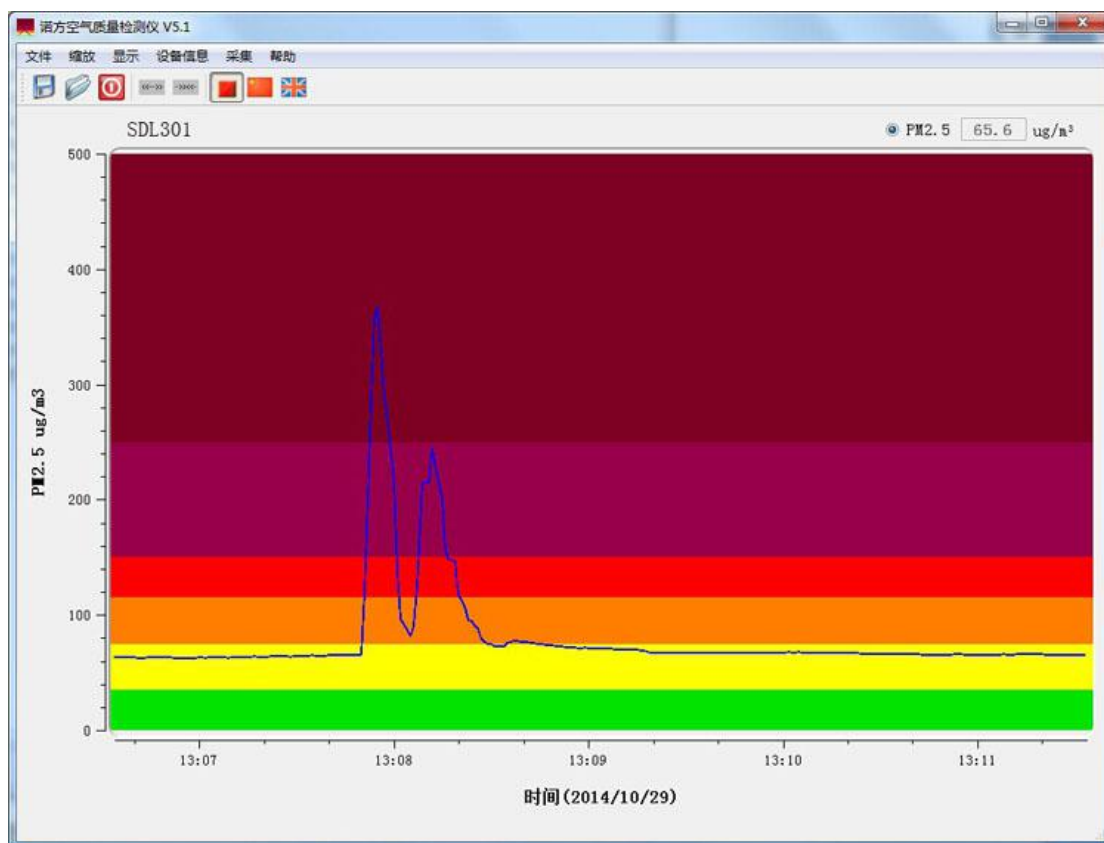
2.Weight

Total weight: 0.35 kg

Weight of product: 0.58 kg

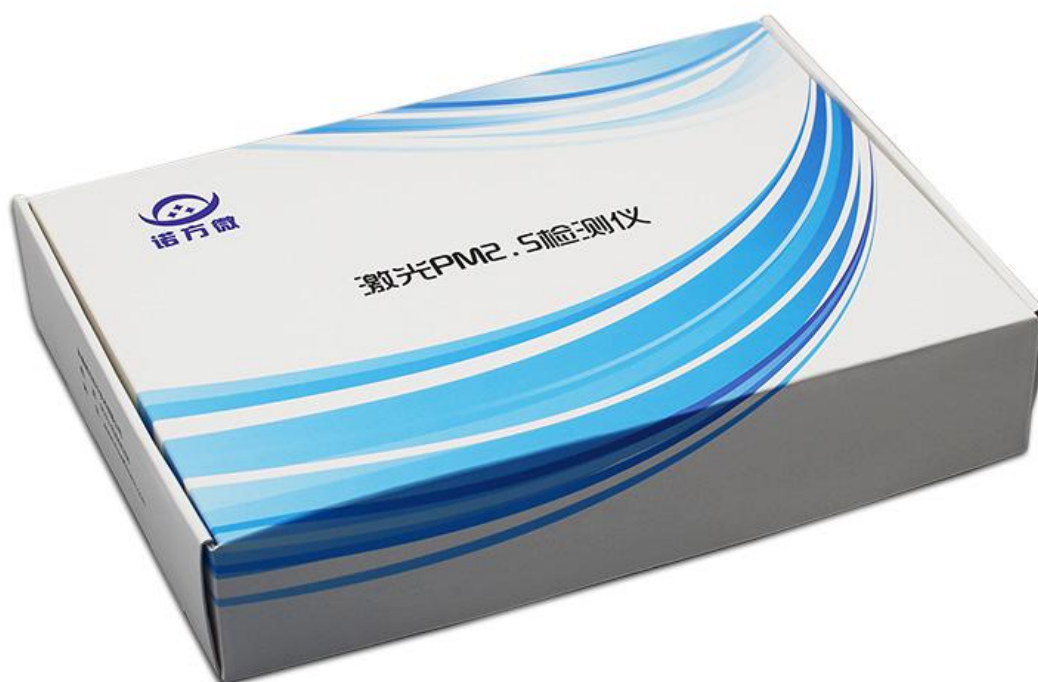
Download the software

PC software download:www.inovafitness.com;



PC dynamic curve

Package



Note

- 1.Keep the air inlet unobstructed and avoid glare into the pores;
- 2.Don't shake the instrument in case of wrong data;
- 3.Do not place and use the instrument in the damp places ;
- 4.Pay attention to protect the label on the back of the instrument;
- 5.Press the pause button to reduce the power consumption if you need a pause;if you stop using it for a long time, please turn it off and put in a cool and dry place ;
- 6.This product is not a sophisticated testing instrument ,the measurement results are for reference only, can ' t be notarial evidence.

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