



# **Laser PM2.5 Monitor**

## **Specification**

Model: SDL607

Version: V1.0



**Nova Fitness Co., Ltd**

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## Catalogue

Overview .....	1
Working Models.....	2
Characteristics .....	3
Scope of application.....	4
Working principle .....	4
Technical Parameters .....	4
Product specifications .....	5
Note.....	5
Contact .....	5

## Overview



**Inlet port:** Collecting the tested air;

**Power:** Short press to open the instrument, long press to turn off the instrument, short press the button to switch the working modes when the instrument is working;

**Display:** Display the value of PM2.5 concentration, PM10 concentration, the battery , and the real-time particle curve;

**Vent port:** Release the air;

**Micro USB port:** USB charging and data communication interface, can be connected with PC to show the real-time curve.

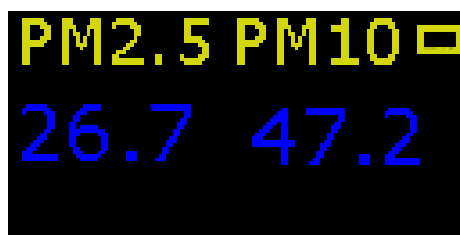
## Working Models

PM2.5 concentration in real time



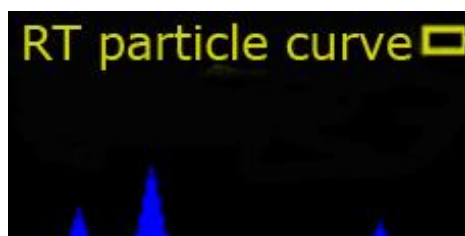
Detect the PM2.5 particle concentration in real-time in the model ,the data is updated per second.

PM2.5+PM10 concentration in real time



Detect the PM2.5 and PM10 concentration in real-time in the model, the data is updated per second.

Real-time curve





Display the dynamic curve of particle concentration in the air.

Air quality detection



Detect the PM2.5 concentration every 5 minutes. Collect the surrounding air in 60 seconds, then display the result which is the mean. The model is suitable for long time detection of particles in the environment, and the monitor can work more than 30 hours under this model.

## Characteristics

The latest technology: use laser PM2.5 detection technology, which is the most accurate and responsive;

The real-time monitoring: automatic refresh data per second, all-weather monitor the air quality;

Multiple working model: real-time display PM2.5 and PM10 concentration, particle concentration curve;

The liquid crystal display: LCD display, simple and intuitive;

Small and portable: small size, so it's easy to carry and simple to use;

Super responsive: the laser sensor and built-in fan make the product responsive;

Data storage : store the data of the last 24 hours;

Transmit data: data can be transmitted to the computer through the USB, you can



see the real-time curve of PM2.5 or PM10 on the display;

Low power consumption: the monitor can work about 30 hours;

Certification: products have passed CE/FCC/RoHS certification.

## Scope of application

It is applicable for Home, office, club, college classrooms, hotel rooms, hospital, car, laboratory and other places.

## Working principle

Laser light scattering:

A dedicated bunch of specific laser was produced by a 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.

## Technical Parameters

No	Item	Parameter	Note
1	Measurement parameters	PM2.5, PM10	
2	Range	0.0-999.9 $\mu\text{g}/\text{m}^3$	
3	Power supply voltage	5V	
4	Battery capacity	1500mAh	
5	Charging current	0.5A	
6	Operating temperature	5-45°C	
7	The highest resolution	0.1 $\mu\text{g}/\text{m}^3$	
8	Relative error	Maximum of $\pm 20\%$ and $\pm 30\mu\text{g}/\text{m}^3$	25°C, 50%RH
9	The minimum of particle diameter	0.3 $\mu\text{m}$	
10	Power	0.5W	
11	Working time	30h	



12	Certification	CE/FCC/RoHS	
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## Product specifications

1.Product size

L\*W\*H=73\*20\*73 mm

2.Weight

Total weight: 0.42 kg

Weight of product: 0.12 kg

## Note

- 1.Must keep the air inlet port unobstructed, and avoid glare into the port;
- 2.Shake will affect the data, please do not shake the monitor when you use it;
- 3.Don't use wet hand to touch the monitor, and don't use it in wet place;
- 4.If you won't use this product for a long time, please shut down and placed in a cool and dry place;
5. This product is not a sophisticated testing instrument ,the measurement results are for reference only, can't be notarial evidence.

## Contact

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