



# Clean Room Environmental Testing Solution

Lumeley (Suzhou) Biotechnology Co.,Ltd.

Dust particle counter / Air volume hood / Floating bacteria sampler / Bacteria collector / Microbial limit meter

# 01

## Particle Counter Pro

LuMeley new generation of particle counter Pro is an independently developed brand-new particle counter meeting numerous domestic and overseas standards. It has overturned the traditional design philosophy of dust particle and adopted the SOP sampling mode to bring brand-new experience for users. Stainless steel drawing process is used on the appearance, which is nice-looking and durable to any form of disinfection by disinfectant. It is equipped with tempered glass panel and 10.1-inch touch screen. The large screen gives you a more intuitive feeling;

It has 28.3L/min, 50L/min and 100L/min sampling flows for selection. Its built-in flow sensor provides users with accurate flow control, the internal parts of the equipment are strictly controlled, ensuring stable operation of the equipment for more than 10 years. It is the best selection for clean room particle monitoring.



# 02

## Features of Particle Counter Pro

### Fault Alarm

- Flow communication fan current
- Voltage laser current voltage
- Printer buzzer communication
- Wide voltage with WIFI connection

### Mode and Standard

- Manual sampling
- Standard mode
- SOP mode (manual)
- SOP mode (manual)

### Data Trend

- Data range can be organized by month, quarter or year
- Provide accurate data for cleanliness change
- Maintain the environment for clean room more accurately

### Map

- Upload live map of the room
- Store map data for multiple rooms
- Provide users with accurate sampling point
- Convenient for real-time observation

### Barcode Scanner

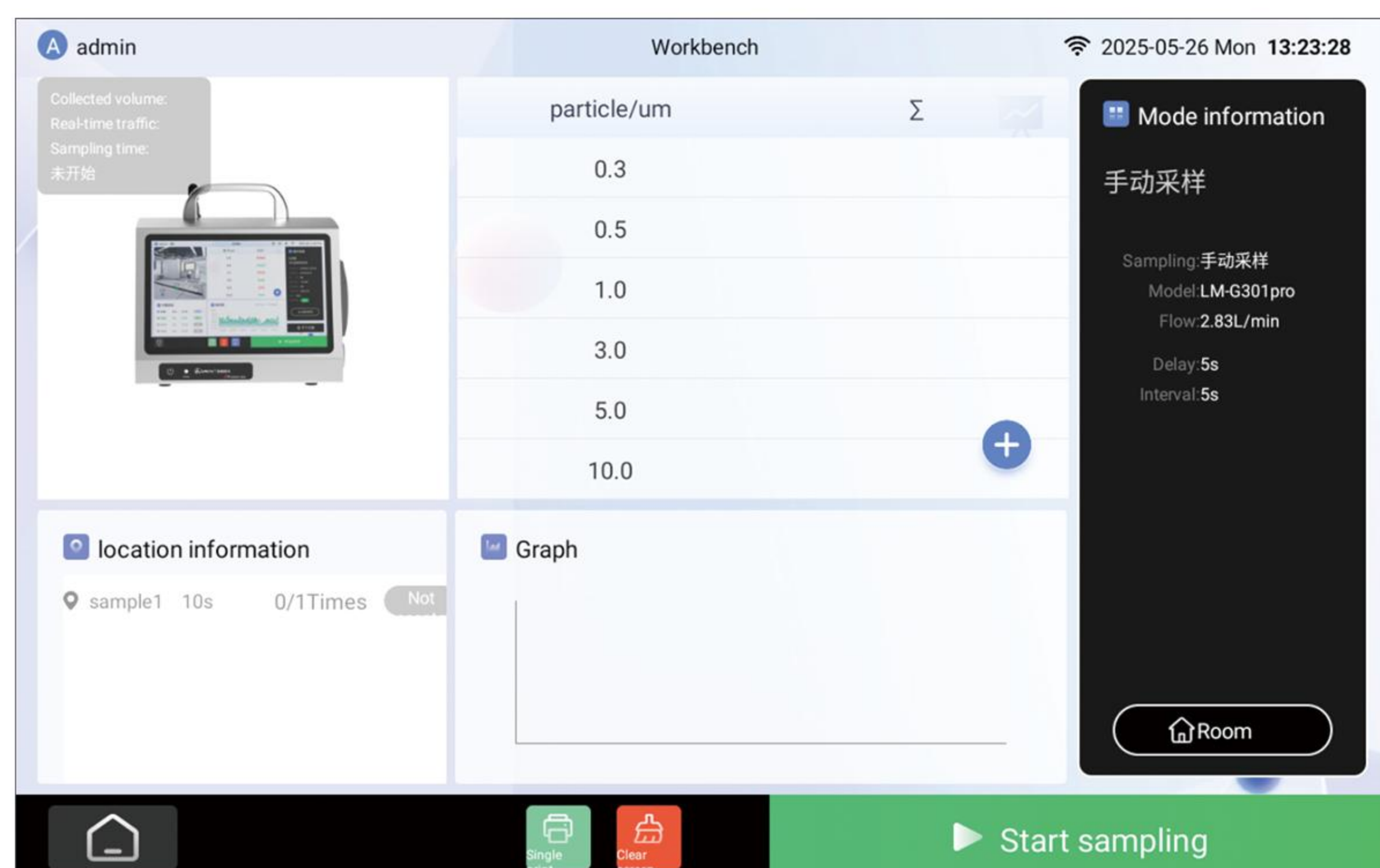
- Mode code scanning function
- Directly fetch sampling information
- Provide efficient operation mode
- Barcode Scanner

### Data Integrity

- Account and password management
- Data and audit trail export
- Electronic signature
- In line with 21 CFR PART 11

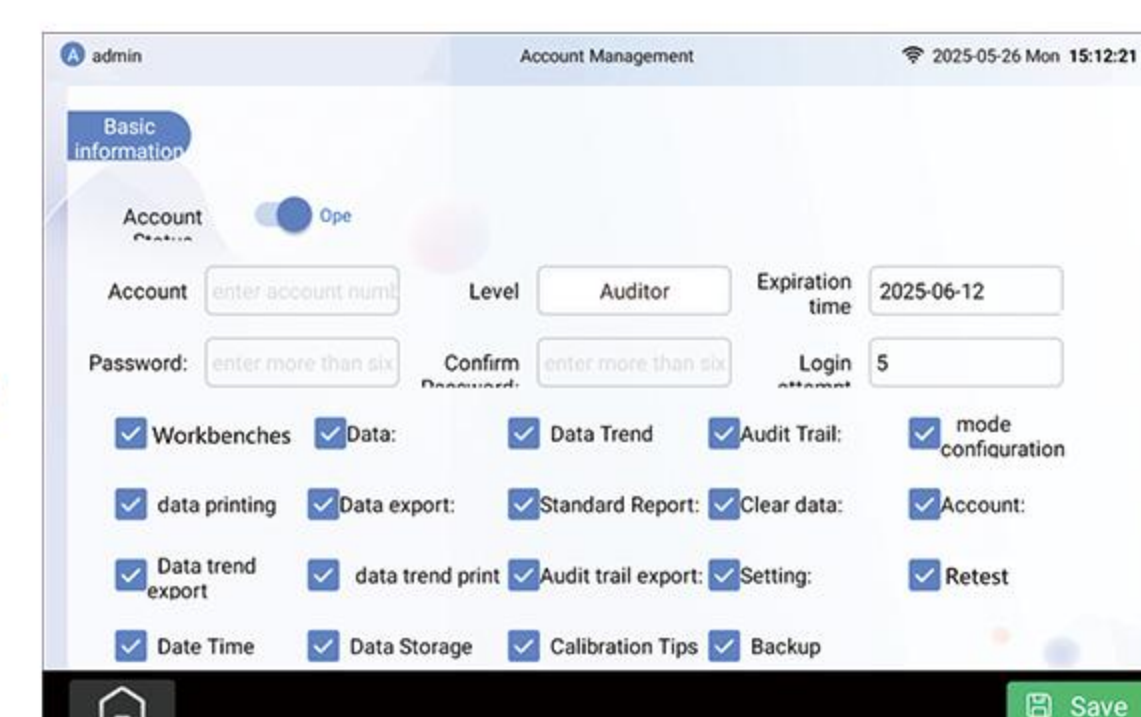
# 03

## Interface Functional Diagram of Particle Counter Pro



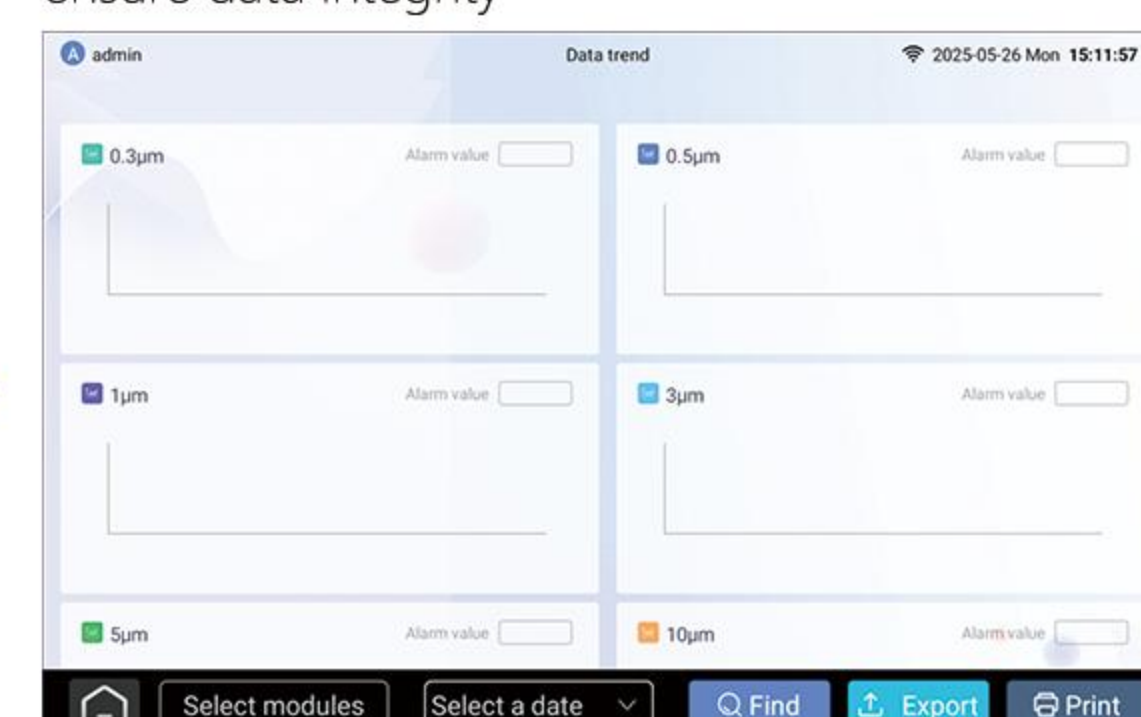
Workbench interface

Account Authority



Multi-level authority management function  
The admin may make authority management for operator to ensure data integrity

Data Trend



Trend change of particle concentration in time period in the room  
Better understand the use conditions of high-efficiency filter

## 04

## Technical Parameters of Particle Counter Pro

PARAMETER & MODEL	LM-G310pro	LM-G550pro	LM-G5100pro
Flow	28.3L/min± 3%	50L/min± 3%	100L/min± 3%
Sampling time (1m³)	35.3min	20min	10min
Particle size channel	0.3 μm, 0.5 μm, 1.0 μm, 3.0 μm, 5.0 μm, 10.0 μm	0.5 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm, 10.0 μm	0.5 μm, 1.0 μm, 2.0 μm, 3.0 μm, 5.0 μm, 10.0 μm
Light source	Long-life laser diode can be served for 10 years in average if it is fault-free		
Upper limit of concentration	1500000pcs/ft³	900000pcs/ft³	700000pcs/ft³
Built-in standard	Custom standards, FS 209E、ISO 14644-1:1999、ISO 14644-1:2015, CHINESE GMP: 2015 EU GMP: 2015, CHINESE GMP: 2020, EU GMP: 2020, GBT 25915.1: 2021 standards		
Report	Custom standards available: FS 209E、ISO 14644-1:1999、ISO 14644-1:2015, CHINESE GMP: 2015 EU GMP: 2015, CHINESE GMP: 2020, EU GMP: 2020, GBT 25915.1: 2021 normative reports		
Map	SOP map function, providing specific sample location		
Port	Ethernet; 2 USB standard ports, USB D-shaped port, DIN-403T port		
Battery	10.8V, 9220mAh/pc (2 pieces in standard configuration), detachable rechargeable lithium battery		
Cruising ability	7h	6.5h	5h
Size	26.6*22*20cm		
Weight	5.1kg (without battery) 6.1kg (with battery)		

## 05

## Handheld dust particle counter



LM-G301

## Characteristic

- Touch Screen Control
- Manual,UCL,AVG,100 4 sampling modes
- 6-speed particle size channel
- The battery can be plugged and unplugged for charging



## Power supply

Rechargeable lithium-ion battery, 7.4V, 3400mAh



## Bluetooth Connection

Manually search for matching external Bluetooth printing device



## Design of Tempered Glass Touch Screen

Design of tempered glass touch screen, simple, elegant and durable



## Data Storage

Can store 50000 sets of data

PARAMETER & MODEL	LM-G301
Sampling flow error	(2.83L ± 5%)/min
Particle size channels	0.3μm, 0.5μm, 1μm, 3μm, 5μm, 10μm
Repetitive relative error	≤±10%
Built in standards	ISO 14644; EUGMP 2020; GB/T 16292
Particle size distribution error	≤± 25% (detection results at 0.5um and 5um)
Maximum sampling concentration	35000 particles/L
Sampling mode	manual,UCL,AVG,100
Counting mode	cumulative value, difference value, concentration value
Sampling units	Σ, Σ/ m3、Σ/ft
Working hours	Continuous testing time of about 6 hours
Data storage	capable of storing 50000 sets of data
Data communication interface	USB interface, system upgrade port, power charging port
Weight (including battery)	0.84kg
Dimensions(L*W*H)(excluding sampling head)	255*130*70mm

Floating Bacteria Sampler



- 5-inch color touch screen
- 300 hole aluminum sampling head  
(Optional SUS316L stainless steel)
- 16GB large capacity memory
- Can be equipped with an external charger  
(Optional)
- Level 4 permission management
- Remote sampling module  
(Optional)
- Electronic Signature and Audit Tracking
- Self diagnosis of faults

MODEL	LM-AC 100	LM-AC 200	LM-AC 210
Sample flow	100L/min± 2.5%	200L/min± 2.5%	100L/min± 2.5%, 200L/min± 2.5%
Sampling volume setting	1~10000L		
Sampling frequency	1~9999 times		
Delay and Interval Time	1-99999s		
Data Storage Capacity	16GB storage, no less than 10 million records		
Sampling mode	Manual sampling, SOP mode (manual), SOP mode (automatic)		
Standard report	Provide standardized reports and export PDF signed files		
Data reliability	Compliant with 21 CFR Part 11		
Printer	Bluetooth printer (optional)		
Interface	Ethernet, USB, Data calibration port, power interface		
Fault alarm content	Self diagnose flow, communication, fan power supply voltage, faults, etc		
External charger	Equipped with an external charger (optional purchase of single/double compartment charger)		
Endurance capability	8h		
External dimensions	125x132x210mm (Length x Width x Height)		
Weight	2.4kg		



FK-IV

Characteristic

- Preset 100 sets of points
- 4.3-inch color touch screen
- Adapt to high-pressure dispersers
- Whole machine anodized aluminum material



**Memory Function**  
Three-six kinds of sample volume prediction with sample volume setting memory function



**Reminder Function**  
Historical data deletion reminder function



**Real-time Printing Data**  
Optional Bluetooth printer, real-time printing, test data saved



**High Core Quality**  
Export fan with high precision and long service life



**Data Export**  
U disk can be used to export historical test data



**Intuitive Operation**  
Colored screen design with concise appearance and clear operation interface

PARAMETER & MODEL	FKC-IV
Control mode	Touch control
Preset sampling points	100 sets
Sampling flow	100L/min±5%(error)
Sampling volume	1~9999L (adjustable)
Sampling velocity	0.38m/s (isokinetic sampling)
Size suitable for culture dish	Φ90mm
Impact velocity	10.8m/s(Anderson impact scale 5 principle)
Overall dimension	174x115x190mm



Floating bacteria transfer nozzle



High pressure disperser

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## Microbiological Limit Meter



### 5-inch colored touch screen

Simple and elegant appearance, clear operation interface



### Sterilization in any form

When disposable filter cup is selected, the pump head can be assembled or disassembled in plug type or thread type. Sterilization can be carried out in any form



### Continuous experimental operation

When disposable filter cup is selected, the pump head can be quickly sterilized with flame gun head, convenient for continuous experimental operation



### New anti-reflux technology

Built-in micro high performance diaphragm pump with low noise is selected. Suction flask is not required. Make direct drainage



LM-G308



LM-G608



DW-S301P

PARAMETER & MODEL	LM-G308	LM-G608	DW-S301P
Number of filter heads	3	6	3
Number of built-in pumps	3	6	3
Diameter of disposable filter cup	47mm		
Diameter of reused filter cup	50mm		
Diameter of applicable filter membrane	47mm (disposable) 50mm (reused)		
Overall dimension	360x210x170mm	660x230x170mm	350x190x160mm
Weight	6kg	10.5kg	4kg
Flow of single filter head (no load)	1500ml/min	500ml/min	
Flow of single filter head (full load)	600ml/min	375ml/min	
Control mode	5-inch touch screen	Knob control	
Power	150W	200W	30W

08

## Intelligent Bacteria Collector



### Six-Gear Speed Presetting

Six-gear speed presetting with speed memory function, convenient for rapid speed setting



### Real-time Speed Display

Real-time speed display, real-time display of temperature and humidity and electronic clock, providing intuitive work process monitoring for users



### Protection Function of Pump Head

The pump head has the safety protection function, avoiding injury to personnel during misoperation



### Integral Waterproof Design

Toughened glass panel with waterproof design, easy to touch and clean



### More Secure and Accurate

Driven by permanent magnet brushless DC motor with high accuracy, long service life and no electrical contact spark



### 5-inch Colored Touch Screen

5-inch capacitive color LCD screen design, simple, intuitive and easy to operate



LM-P50



LM-P20

PARAMETER & MODEL	LM-P50	DW-P20
Speed	(50~300)rpm	(50~200)rpm
Total height of suspension	44cm	
Number of base holes on incubator	3	
Number of preset speed channels	6	/
Control mode	5-inch touch screen	Stepless speed regulation
Weight	12kg	10kg
Overall dimension	210x310x180mm	210x290x180mm
Flow of single filter head	1500ml/min(no load) 600ml/min(full load)	

09

## Microbial detection instrument supporting consumables



### Disposable filter cup

Disposable filter cups with independent sterile packaging, ready to use upon disassembly. Three specifications, single sterile filter cup (LM-YC200), with built-in filter membrane and base version and built-in gasket (LM-YC200B), filter membrane and base version (LM-YC200D). Compatible with LM-5C(47mm) disposable sterile filter membrane.

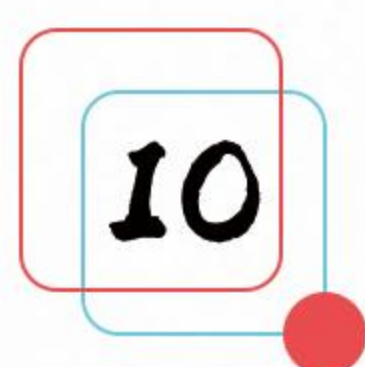


### Disposable fully enclosed bacterial culture apparatus

The high elasticity pump tube is manufactured using ultrasonic welding technology and special material composite manufacturing. It adopts advanced ethylene oxide sterilization technology and is independently packaged in a sterile manner. The packaging bag is made of imported medical grade dialysis paper.

PARAMETER & MODEL	LM-YC200D
Cup body material	PP
Filter cup capacity	100ml
Filter membrane material	Mixed cellulose ester
Filter cup height	75x70mm (with base)
Filter cup height	75x55mm (without base)
Filter membrane specifications	47mm
Filter membrane pore size	0.45μm

MODEL	APPLICABLE INSPECTION TYPE
LM-PY220/PY330	Bottled large capacity injection
LM-KAPY220/KAPY330	Ampoule containing antibiotic solution
LM-KSY220/KSY330	Antibiotic solution
LM-BF220/BF330	Glass bottle powder
LM-KBF220/KBF330	Bottled antibiotic powder
LM-APY220/APY330	Ampoule filled medicinal solution
LM-KAY220/KAY330	Ampoule containing soluble pharmaceuticals



## Air Volume Hood



FLY-1

### Characteristic

- Adapt to Bluetooth printer
- Save data for 4 hours after power outage
- Real time printing of test data is possible
- Export test data from USB drive



#### Reminder Function

Historical data deletion reminder function prevents misoperation



#### Design of Tempered Glass Touch Screen

Design of tempered glass touch screen, simple, elegant and durable



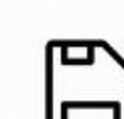
#### Excellent Man-Machine Interaction

5-inch capacitive color LCD screen design, friendly man-machine interface, simple and easy to operate



#### Bluetooth Connection

Manually search for matching external Bluetooth printing device



#### Data Storage

Test data within 4 hours after the data is saved after power failure



#### Built-in Battery

Built-in battery can work continuously for 5 hours

PARAMETER & MODEL		FLY-1
Measuring range of air volume		150~4000m <sup>3</sup> /h
Real-time U disk export vertical test data		±5%F.S
Real-time U disk export vertical test data		1m <sup>3</sup> /h
Number of data stored		10000pcs
Size of standard fabric shade		570x570mm & 830x830mm
Height of movable triangle support (optional)		3.1m
Weight		3.8kg
Header material and shape	ABS engineering plastic injection molding integrated molding	
Pressure measuring range		-5 ~ +125Pa
Accuracy of pressure measurement		± 1.5% full scale
Pressure measurement resolution		0.01Pa
Power supply mode		DC8.4V battery

## Specialized In Microbiological and Environmental Testing

### SERVICE COMMITMENT

**Purpose and Concept** - "Pay equal attention to development and quality, reputation and service first". We will realize mutual benefit and progress with our customers with high quality products, reasonable prices and intimate services.

**Team Services** - We have a persistent, enterprising and innovative team for our cause, and we have achieved continuous development! Warmly welcome new and old customers from all industries and fields to guide and negotiate business!

\* See the product manual for details

\* LuMeley is specialized in microbial and environmental testing. The specific product specifications and parameters are subject to the product manual.

\* Specific instrument appearance is subject to the real object.



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