

Cleanliness Testing Instruments

LUMELEY BROCHURE

FOCUSING ON SERVING MICROBIOLOGICAL
AND ENVIRONMENTAL TESTING



Airborne Particle Counter



Microbial Air Sampler



Air Flow Capture Hood



Sterility Testing Pump



Microbial Limit Tester

ABOUT US



Lumeley (Suzhou) Biotechnology Co.,Ltd.

Lumeley (Suzhou) Biotechnology Co., Ltd. is an innovative enterprise integrating R&D, production, sales, and service, dedicated to providing comprehensive solutions for microbiology laboratories in China.

Our products include microbiological and sterility testing instruments such as sterility testing pumps, microbial limit testers, homogenizers, disposable and reusable sterility testing canisters, as well as environmental monitoring equipment including particle counters, air capture hoods, air samplers, and differential pressure devices. Several products hold national patents and adopt advanced international technologies, ensuring leading performance and quality in the domestic market.

We have established a complete marketing and after-sales service system to provide timely and efficient support in consultation, design, production, installation, commissioning, training, and technical services. Our instruments are widely applied in pharmaceuticals, medical devices, biological products, disease prevention and control, environmental protection, and food and cosmetics testing.

Upholding the spirit of “Quality Relates to Life, Integrity Shapes the Future”, Lumeley follows a customer-first philosophy, continuously innovates, and expands brand recognition. Meeting the diverse needs of different industries and users is our constant pursuit and driving force. In a dynamic and competitive market, we move forward hand in hand with our partners to create a brighter future together.

2000⁺

Enterprise Clients

100⁺

Certifications & Credentials

10⁺

Established Years

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Airborne Particle Counter

Pro Series



Data Trends

Organize data by month, quarter, or year to provide accurate insights into cleanliness trends, enabling more precise maintenance of the cleanroom environment.



Malfunction Alarm

Provides malfunction alarms for flow, laser, battery, fan, and other components.



Four modes

Manual Sampling, Standard Mode, SOP Mode (Manual), SOP Mode (Automatic)



Barcode Scanner

Features horizontal barcode scanning to directly retrieve sampling information, enabling more efficient operation.



Map Points

Allows uploading of actual room layout maps to provide users with accurate sampling points for convenient real-time monitoring.



Data Security

Account and password management, data and audit trail export, equipped with electronic signatures, compliant with 21 CFR Part 11.



LM-G301

LM-G310

LM-G5100

LM-GS5200

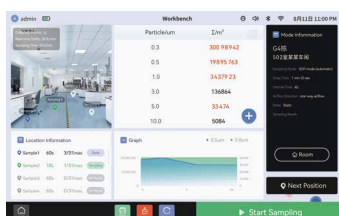
LM-G550

LM-G310Pro

LM-G5100Pro

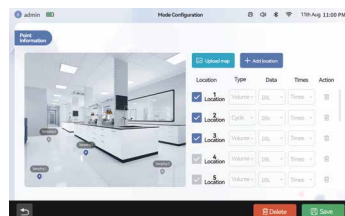
LM-G550Pro

User Interface



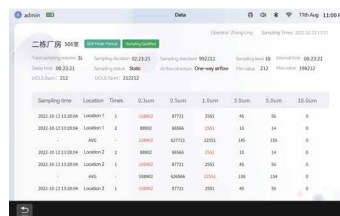
Sampling Plan

- Move the device according to the marked points on the map.
- Observe particle changes in curve graphs.
- Real-time display of sampling status at each point.



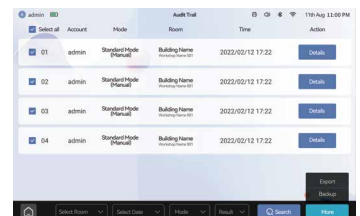
Plan Settings

- Supports both Chinese and English input.
- Upload real room layout maps.
- Add multiple points in bulk based on area.



Data

- Automatically calculate relevant data based on the sampling mode.
- Network-enabled printing of standard A4 reports.
- Search data by room name, time period, sampling mode, or results.



Audit Trail & Electronic Signature

- Record specific operation steps in real time.
- Handwritten electronic signatures ensure standardized reporting.

Technical Parameters

Mode	LM-G310pro	LM-G550pro	LM-G5100pro
Sampling Flow Rate	28.3L/min	50L/min	100L/min
Flow Rate Error	(28.3L±2.5%)/min	(50L±2.5%)/min	(100L±2.5%)/min
Maximum Concentration	150,0000/ft³	90,0000/ft³	70,0000/ft³
Battery Life	7h	6.5h	5h
Particle Size Channels	0.3µm 0.5µm 1.0µm 3.0µm 5.0µm 10.0µm	0.5µm 1.0µm 2.0µm 3.0µm 5.0µm 10.0µm	
Sampling Mode	Manual Sampling, Standard Mode, SOP Mode (Manual), SOP Mode (Automatic), Cumulative ΣStandard Accessories Sampling Mode / Differential Δ or Concentration		
Zero Adjustment	<1count/5min		
Exhaust	Built-in HEPA Filter (>99.997% @ 0.3 µm)		
Data Reliability	Compliant with FDA 21 CFR Part 11		
Reporting Method	Reports Compliant with ISO / EU GMP / Chinese GMP / Fed Std Standards		
Data Memory Capacity	1,000,000 measurement records, searchable by desired time periods.		
Interface	Ethernet, 2 standard USB ports, USB Type-B port, DC power input; Battery: 10.8V, 9000 mAh each (standard 2 units), removable rechargeable lithium batteries		
Laser Light Source	Long-life laser diode with an average fault-free service life of 10 years.		
Map	Allows uploading of actual room layout maps, with sampling point icons directly corresponding to real sampling locations.		
Printing Method	Built-in thermal printer for reports and data trends, with LAN printer connectivity.		
Room Settings	3,0000rooms		
Weight	6.1Kg (with battery) 、 5.1Kg (without battery)		
Standard Accessories	Isokinetic Sampling Head, Self-Cleaning Filter, Tripod, Printer Paper, Portable Protective Case, Charging Adapter, USB Drive, User Manual, Certificate of Conformity		

Handheld Particle Counter



4.3 inches
Touch Screen

50,000
Storage

Replaceable Battery
Extended Battery Life

Technical Parameters

Mode	LM-G301		
Flow Rate	2.83L/min(0.1ft3)	Battery Life	6h
Data Storage	50000	Self-clean Time	≤10min
Counting Mode	Cumulative Value, Differential Value, Concentration Value	Sampling Time	10~9999s
Sampling Concentration	35,000 particles/L (particle size ≥ 0.5 µm), with no corrosive gases such as acids or alkalis present in the sampled air.		
Particle Size Channels	0.3um\0.5um\1.0um\3.0um\5.0um\10.0um Simultaneous Counting of Six Particle Sizes		
Built-in Standards	Compliant with ISO 14644, EU GMP 2020, and GB/T 16292 standards		

Airborne Particle Counter

G Series

Flow Compensation and Calibration

Built-in imported gas mass flow meter, with flow compensation and calibration functions

Permission Management

4-Level Permission Management: Administrator, Auditor, Advanced User, Operator

Data Storage

Capable of storing a minimum of 100,000 rooms and 500,000 points, with data storage exceeding 10 million entries

Pattern Measurement

Manual Sampling;
Normal Mode;
Confidence Mode(Manual);
Confidence Mode (Automatic)

Intuitive Operation

Equipped with an 8-inch color LCD touchscreen, the large visual interface makes operation more simple and intuitive

High Accuracy

Sampling data and volume accuracy are high, ensuring more authentic and reliable results



Technical Parameters

Model	LM-G310	LM-G550	LM-G5100	LM-GS5200
Sampling Flow Rate	(28.3L±5%)/min	(50L±5%)/min	(100L±5%)/min	(28.3&100L±5%)/min Dual-flow switching
Particle Size Channels	0.3μm 0.5μm 1.0μm 3.0μm 5.0μm 10.0μm		0.5μm 1.0μm 2.0μm 3.0μm 5.0μm 10.0μm	
Sampling Concentration	150,000/ft ³	90,000/ft ³	70,000/ft ³	28.3L/min: 150,000/ft ³ 100L/min: 70,000/ft ³
High Accuracy	Compliant with FDA 21 CFR PART 11			
Laser Light Source	Long-life laser diode, with an average trouble-free service life of 10 years			
Exhaust Method	Built-in HEPA filter (>99.997%@0.3μm)			
Dimensions	243*312*197mm (L*W*H)			

Microbial Air Sampler

Key Features



Malfunction Alarm

Provides alarms for flow, battery, fan, and other faults



Map Points

Can upload actual room maps, providing users with accurate sampling points for convenient real-time monitoring



3 Sampling Modes

Manual Sampling, SOP Mode (Manual), SOP Mode (Automatic)



Barcode Scanner

Features horizontal barcode scanning to directly retrieve sampling information, enabling more efficient operation.



Ultra-large memory

This device is equipped with 10 million ultra-large memory capacity, facilitating users to store data efficiently.



Data Security

Account and password management, data and audit trail export, equipped with electronic signatures, compliant with 21 CFR Part 11.

Technical Parameters

Model	LM-AC100	LM-AC200	LM-AC210
Sampling Flow Rate	100L/min± 2.5%	200L/min± 2.5%	100L/min± 2.5% 200L/min± 2.5%
Battery Life	8h	5h	5h
Display Screen	5-inch color touchscreen, operable with gloves		
Flow Meter	Built-in flow meter, providing real-time flow feedback		
Map	Equipped with map upload functionality		
Sampling Type	Cycle or Volume		
Sampling Mode	Manual Sampling, SOP Mode (Manual), SOP Mode (Automatic)		
Standard Report	Provides standardized reports, exportable as PDF files with signature support		
Data Reliability	compliant with 21 CFR Part 11		
Permission Management	Administrator, Auditor, Advanced User, Operator		
Electronic Signature	Equipped with secure confirmation and handwritten signature functionality		
Printer	Bluetooth Printer (Optional)		
Barcode Scanner	Specific Mode QR Code Scanning Function		
Interface	Ethernet, USB, Data Calibration Port, Power Interface		
Battery	7.2V, 6600mAh, Rechargeable Lithium Battery		
External Charging	Equipped with an external charger (optional single or dual bay charger available for purchase)		
Environment	Storage Environment: Temperature -10~50°C, Relative Humidity ≤98% RH; Operating Environment: Temperature 0~40°C, Relative Humidity ≤95% RH		
Dimensions	125*132*210mm (L*W*H)		

Microbial Air Sampler



FKCI-IV



4-level
Permission Management



120
Pre-set Account



50000
Data Storage



FKCI-IV



1.8kg
Weight



8h
Battery Life



10000
Data Storage

Technical Parameters

Model	FKCI-IV
Sampling Flow Rate	100L/min±5%
Flow Meter	Built-in Flow Meter
Battery Life	10h
High-Pressure Dispenser	Compatible
Control Method	4.3-inch color touchscreen; Remote start and stop of the device via remote control are available.
Room	150 rooms Presettable; 500 samples configurable
Account	120 accounts presettable
Sampling Delay Interval Time	0-9999s (Adjustable)
Sampling Volume	0-9999L (Adjustable)
Permission Management	Administrator, Auditor, Advanced User, Operator
Data Storage	Data limit: 50,000 entries; Audit trail limit: 100,000 entries
Data Reliability	compliant with 21 CFR Part 11
Basic info	230*115*200mm-Anodized Aluminum - 2.2kg

Technical Parameters

Model	FKCI-IV
Control Method	4.3-inch color touchscreen, operable with gloves
Points	Can preset 100 sets of points
Sampling Flow Rate	100L/min±5%
Sampling Delay Time	0-99s (Adjustable)
Sampling Interval Time	0-99s (Adjustable)
Sampling Flow Speed	0.38m/s (Isokinetic Sampling)
Impact Velocity	10.8m/s (Principle of Andersen Impactor Stage 5)
Sampling Volume	1-9999L (Adjustable)
Body and Sampling Head Material	Anodized Aluminum
Data Storage	10000
Battery Life	8h
Weight	1.8kg
Dimensions	147*115*190mm (L*W*H)

Other Accessories for Microbial Air Sampler



High-pressure Dispenser
LM-F300



High-pressure Dispenser
LM-Y300



Single-compartment
LM-BC 100



Double-compartment
LM-BC 200

Air Flow Capture Hood



Key Features



Real-Time Printing

Standard configuration allows manual search and pairing with external Bluetooth printers, enabling real-time recording of experimental results



Memory Function

Memory Function: Retains detection data for up to 4 hours after power loss



Magnetic Dial Head

After measurement, the dial head can be easily detached for convenient data observation



Touchscreen

5-inch capacitive color LCD, featuring a user-friendly interface that is simple, intuitive, and easy to operate



Lightweight

Can be easily handheld or moved, allowing prolonged use without causing arm fatigue, thereby improving work efficiency



Reminder Function

Historical Data Deletion Reminder Function to Prevent Accidental Operations

Technical Parameters

Model	FLY-1		
Airflow Measurement Range	150~4000m ³ /h	Power Supply Method	DC8.4V+battery
Airflow Measurement Accuracy	±5%FS	Power	3W
Airflow Resolution	1m ³ /h	Standard Hood Size	570*570mm&830*830mm
Pressure Measurement	-5~+125Pa	Height of Mobile Tripod Stand	3.11 meters (including the air capture hood) (optional)
Range Pressure Measurement	±1.5% Full Scale	Weight	3.8kg
Accuracy Pressure Resolution	0.01Pa	Dimensions	Main Unit Outer Diameter 490 mm, Height with Hood 850 mm

Application Scenario

Widely used for direct measurement of airflow at air outlets and ducts in HVAC and purification technology industries



HVAC Industry



Purification Technology Industry



CDC & Epidemic Prevention



Food & Chemical Industry

Sterility Testing Pump



Anti-Pinch Design

5-Inch Touch Screen

Safe Drive

Work Monitoring

LM-P50



Knob Control

Quick Operation

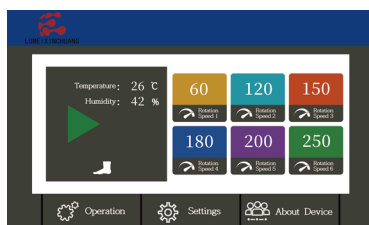
Stepless Speed Regulation

DW-P20

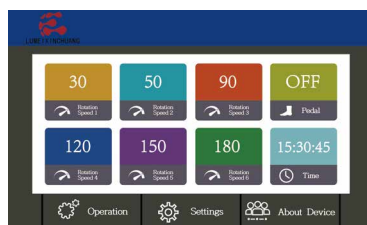
Technical Parameters

Mode	LM-P50	DW-P20
Control Method	5-inch Touch screen	Knob Control
Power	200W	90W
Rotational Speed	(50~300) rpm	(50~250) rpm
Number of Holes in Canister Base	3	3
Preset Speed Channels	6	—
Real-Time Temperature and Humidity Display	Include	—
Electronic Clock	Include	—
Basic info	210*310*180mm (L*W*H) -SUS 304-12kg	210*290*180mm (L*W*H) -SUS 304-10kg
Total Suspension Height	440mm	
Power	AC 220V 50Hz	

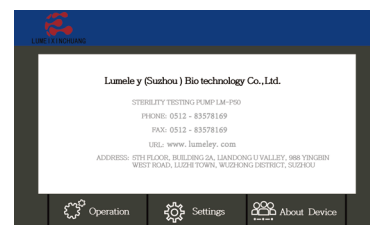
User Interface (LM-P50)



Running



Setting



About This Machine

Sterility Testing Canisters



Disposable Fully Enclosed Sterility Testing Canister



Culture Medium Bottle

Usage comparison

Model		Applicable Sample Types
PY220	PY330	Large-Volume Injectable Vials
KSY220	KSY330	Antibiotic Solution
BF220	BF330	Powder in Glass Vials
KBF220	KBF330	Antibiotic Powder in Vials
RSD220	RSD330	Liquid Medication in Soft Plastic Bags
KSD220	KSD330	Antibiotic Solution in Soft Plastic Bags
APY220	APY330	Liquid Medication in Ampoules
KAY220	KAY330	Soluble Medication in Ampoules
YLQ220	YLQ330	Medical Devices Applicab (Infusion Sets, Blood Transfusion Sets, Dialysis Tubing, Intravenous Catheters, etc.)
KAPY220	KAPY330	Antibiotic Solution in Ampoules
NRF220	NRF330	Vials of Highly Antimicrobial and Poorly Soluble Powder
YRJ220	YRJ330	Emulsion in Vials (Oily Test Samples)
SWY220	SWY330	Viscous Liquid Medication (Biological Products)
SWF220	SWF330	Lyophilized Powder Injection (Biological Products)

Technical Parameters

Model	LM-PY01/02/03	LM-KK01	LM-FL01
Dimensions	88*192mm (with lid) 88*188mm (without lid)	33*430mm	30*9mm
Volume	500/250/1000ml	—	—
Material	High Borosilicate Glass	Polypropylene	Chlorinated Butyl Rubber
Quantity	12/Box	100/Case	100/Case



Sterility Testing Canisters Stand

Technical Parameters

Mode	LM4-5	LM2-5
Number of Holes	20	10
Dimensions	340*250*28mm(L*W*H)	340*125*28mm(L*W*H)

Microbial Limit Tester

New Anti-Backflow Technology

New Anti-Backflow Technology



LM-G308



LM-G608



DW-S301P

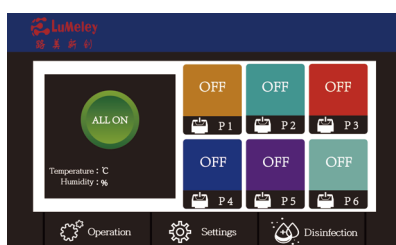


LM-S601P

Technical Parameters

Mode	LM-G308	LM-G608	LM-S601P	DW-S301P
Power	150W	200W	100W	30W
Filter Head	3	6	6	3
Built-in Pump	3	6	2	1
Weight	6kg	10.5kg	8kg	4kg
Dimensions	360*210*170mm	660*230*170mm	620*190*170mm	350*190*150mm
Material	SUS 304	SUS 304	SUS 304	SUS 304
Compatible Filter Cups	LM-YC200 (Standard) LM-YC200B/LM-YC200D/LM-3B (Optional)		Ø47mm, Ø50mm	Ø47mm, Ø50mm
Compatible Membranes	Ø47mm, Ø50mm		Ø47mm, Ø50mm	Ø47mm, Ø50mm
Filter Cup & Base Connection Method	Plug-in Type (Standard), Threaded Connection (Optional)		Threaded Connection	
Timer Range	0~9999s			
Working type	continuous			

User Interface (LM-G308 LM-G608)



● Running



● Setting



● One-click disinfection

Automatic Membrane Extractor



Compact Size



Multiple Membrane Collection Methods



Indicator Light



Easy to Use



Fully Automatic Operation



Highly Compatible

Technical Parameters

Model	LM-AMR 400
Distribution Speed	0.5S
Distribution Delay	3S
Material	ABS Engineering Plastic Housing
Power	DC 12V 3A
Weight	2.8kg (Without Lithium Battery)
Dimensions	175*200*212.5mm (L*H*W)
Lithium Battery (Optional)	7.2V/6600mAh 47.52Wh, Maximum Charging Current 2A, Designed Charging Time 200 Minutes

Product Detail Display



● Top View



● Front View

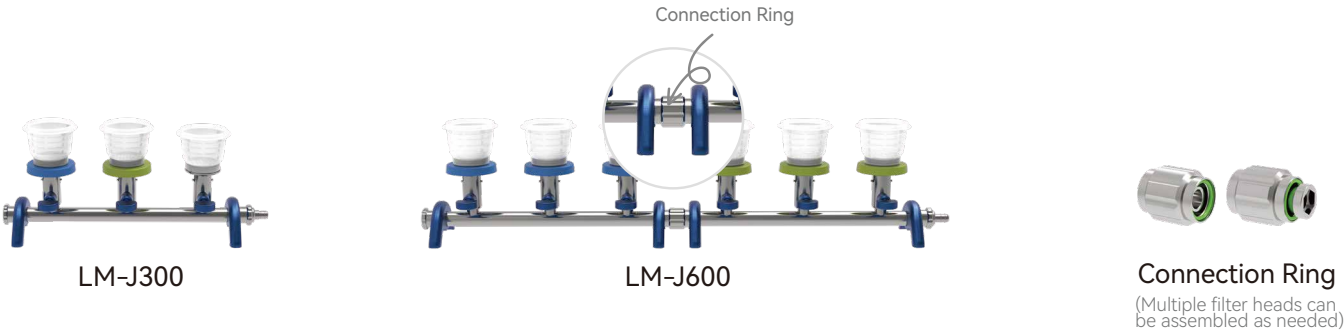


● Rear View



● Bottom View

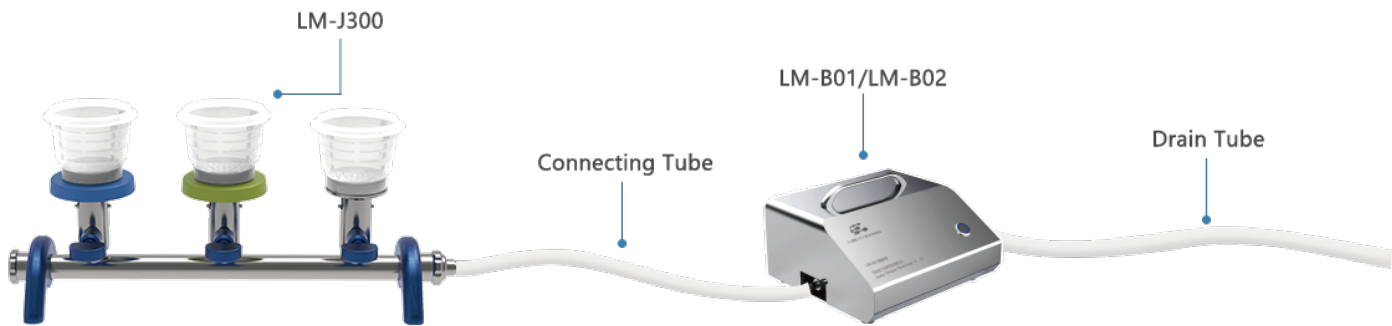
Microbial Limit Tester Filtration Stand



Technical Parameters

Model	LM-J300	LM-J600	Model	Connection Ring
Filter Head	3	6	Diameter	30mm
Weight	2kg	4kg	Dimensions	35mm
Dimensions(LWH)	388*120*110	750*120*110	Material	316L

Working Principle



● Schematic Diagram of Working Principle for Microbial Limit Tester LM-J Series

Model	LM-B01	LM-B02
Compatible Stand	LM-Z300、LM-J300、LM-J100、LM-J400	LM-Z600
Power	30W	60W
Built-in Pump	1	2
Compatible Products LM	LM-Z300 LM-J300	LM-Z600 LM-J600
Filtration Speed	1500ml/min ((No Load) , 600ml/min (Full Load)	

Microbial Limit Tester Consumables

Technical Parameters

Model	LM-YC200	LM-YC200B	LM-YC200D
Cup Material	PP		
Cup Volume	100ml		
Package Quantity	1/Pac	1set/Pac, 48pac/Box	1set/Pac, 48pac/Box
Color	Colorless and Transparent	Colorless Transparent Filter Cup; White Grid Membrane	Colorless Transparent Filter Cup; White Grid Membrane; Green Base.
Dimensions	75*55mm	75*70mm (with base)	75*70mm (with base)
Others	Sterile Packaging	Sterile Packaging Comes with Membrane	Sterile Packaging Comes with Membrane and Gasket



Disposable Filter Cup

Technical Parameters

Model	LM-5C
Pore Size	0.45μm
Package Quantity	100piece/case
Material	Mixed Cellulose Ester (Aqueous)
Diameter	47mm
Validity Period	3 years
Sterilization method	Irradiation Sterilization



Disposable Sterile Membrane

Accessories for Automatic Membrane Extractor

Technical Parameters

Model	LM-6C		
Diameter	47mm	Pore Size	0.45μm
Validity Period	3 years	Sterilization Method	Irradiation Sterilization
Package Quantity	150piece/case	Material	Mixed Cellulose Ester(Aqueous)
Others	Can be used with the membrane sampler, pre-sterilized, with grid for easy counting, improving testing efficiency.		



LM-6C



Cleanroom Testing Instruments? **Trust Lumeley**

 5TH FLOOR, BUILDING 2A, LIANDONG U VALLEY, 988 YINGBIN WEST ROAD, LUZHI TOWN, WUZHONG DISTRICT, SUZHOU

 +86 18862385571 0512-8357 8169

 pzl_four@163.com

 www.lumeley.com



Official Website



WeChat Official Account