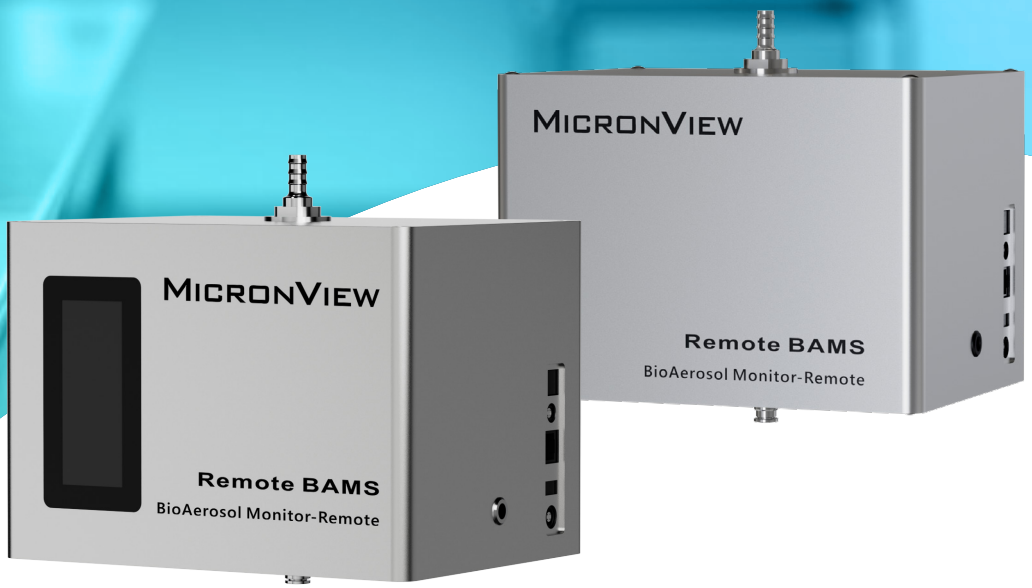
MicronView

BioAerosol Monitor-Remote

Remote BAMS

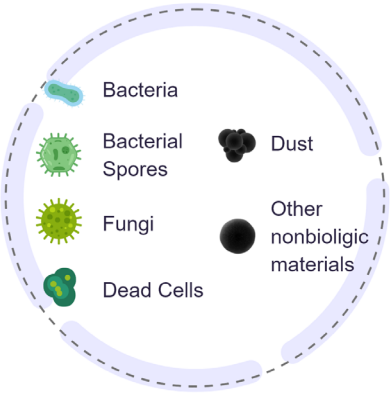


- Simultaneously detects airborne particle size and microbial fluorescence
- Provides instant counting and real-time microbial data without the need for traditional culture media and incubation

Product Features

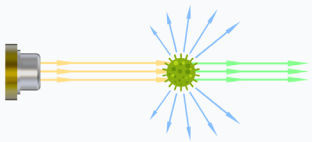
Continuous Real-time Monitoring of Biologic and Inert Airborne Particles.

- Cleanroom air can contain both **biologic** and **inert** particles



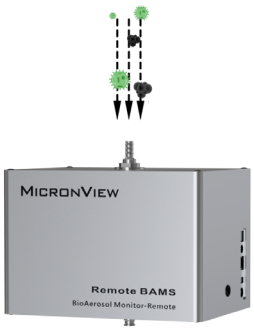
BAMS can be used to detect these particles in real-time.

Biologic particles emit fluorescence in addition to scattered light.

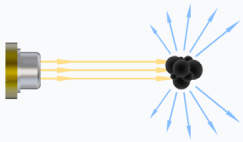


This signal is detected via photomultipler tube.

- Particles are pulled into the BAMS and scanned individually with a 405nm laser.
- Biologic particles emit fluorescence, allowing the BAMS to differentiate them from inert particles instantly.



Inert particles scatter light, most do not emit fluorescence.

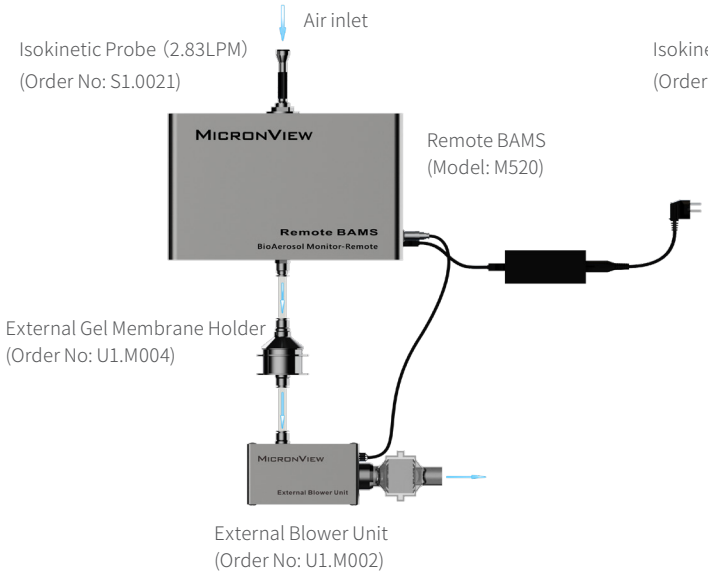


This signal is detected via photodiode.

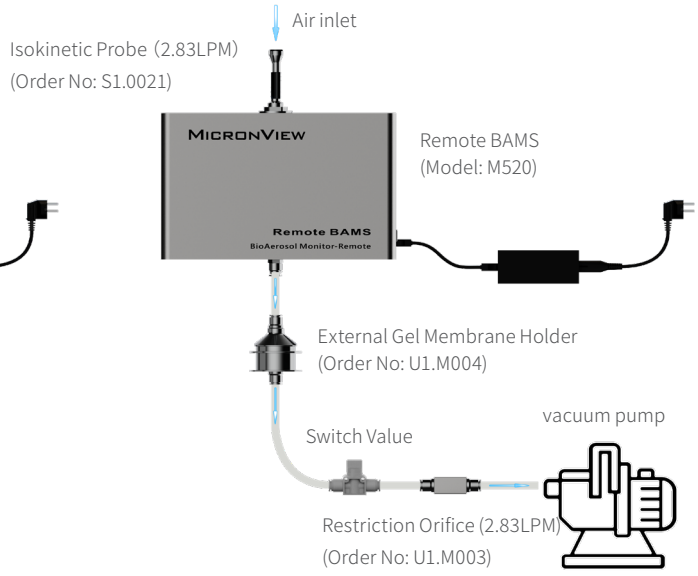
Application

- Features an external gel membrane for airborne bacteria collection.
- Can connect to a central pump for sampling and monitoring, or operate with the MicronView independent external blower unit for easy deployment.

- Application 1 External Blower Unit Solution

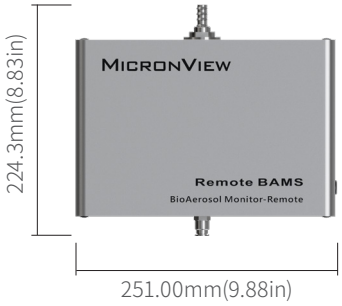


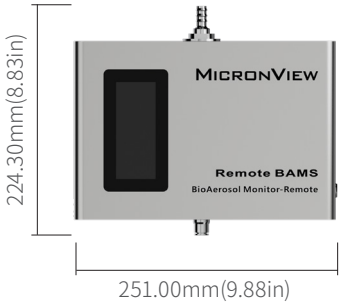
- Application 2 Central Pump Solution



- The external gel membrane microbial collector allows for real-time sample collection, enabling verifcation against traditional culture methods.

Product Dimensions





Specifications and Order Information

Specification	Remote BAMS Models	
	M520S	M520
Flow Rate	2.83LPM ± 3%	
Size Range	0.5μm to 25μm	
Size Channel	0.5μm, 1.0μm, 2.0μm,3.0μm,5.0μm,10.0μm	
Size Resolution	<15% @ 0.5μm (ISO 21501-4)	
Count Efficiency	0.5μm: 50% ±20%，>0.75μm: 100% ±10% (ISO 21501-4, JIS B9921)	

Specification	Remote BAMS Models	
	M520S	M520
Concentration Limit	4,000,000 particles/ft^3 at 10% coincidence loss	
Zero Count	<1count/5min	
Flow Rate Control	MicronView External Blower Unit, closed-loop auto control; or flow restriction orifice plate connect with vacuum pump.	
Exhaust	External HEPA filter (>99.999%@0.3μm)	
Laser Source	Long-life laser	
Communication	RJ45, USB, SENSER-HU, WIFI (optional)	
Alarm	Built-in alarm	
Display	4.0"LCD capacitive touch screen	N/A
Language	Chinese, English	N/A
Calibration Frequency	Recommended once a year	
Dimensions (H×W×D)	224.30×251.00×188.50mm/ 8.83×9.88×7.42 in	224.30×251.00×188.50mm/ 8.83×9.88×7.42 in
Weight	3.6 kg/ 7.94 lbs	3.4 kg/ 7.50 lbs
Enclosure	Anodized aluminum	
Power	100-240V, 50Hz/60Hz AC to 24V DC input, plug compatible with standard interface types	
Max Power Consumption	AC 10 W	AC 9W
Operating Conditions	Operating temperature: 5°C-35°C (41°F-95°F), Relative humidity: 5%-90%, non-condensing	
Storage Conditions	Storage temperature: 0°C-40°C (32°F-104°F) Relative humidity: 5%-95%, non-condensing	
Safety	EN 61010-1:2010, EN 61326-1:2013, EN IEC 61326-1:2021	
Warranty	12 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first).	

Specification	External Gel Membrane Holder
Gel Membrane Specification	Φ37mm
Dimensions	Whole Diameter: 56mm/2.20 in Height: 81.4mm/3.20 in
Sample Tubing	OD: 8mm/0.32 in
Weight	0.31Kg/0.68lbs
Enclosure	316L Stainless Steel

Specification	External Blower Unit
Dimensions（H×W×D）	71×135×104 mm；2.80×5.32×4.09 in
Weight	0.74 kg/ 1.63 lbs
Enclosure	Aluminium alloy
Operating Conditions	Operating temperature: 5-35°C (41°F-95°F); Relative humidity: 5-90% non-condensing
Storage Condition	Storage temperature: 0-40°C (32°F-104°F); Relative humidity: 5-95% non-condensing
Warranty	12 months (calculated from the date of product activation or six months after the date of manufacture, whichever comes first).

Name	Model	Order No.
BioAerosol Monitor-Remote | Remote BAMS	M520S	MACHM520S
BioAerosol Monitor-Remote | Remote BAMS	M520	MACHM520
External Blower Unit	N/A	U1.M002
Restriction Orifice (2.83LPM)	N/A	U1.M003
External Gel Membrane Holder	N/A	U1.M004
Isokinetic Probe（2.83LPM）	N/A	S1.0021

MicronView

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