



BIOBATS

The Next Generation of –

Biological Threat Detection

INTRODUCTION



Airborne Biological Hazards: A GROWING GLOBAL CONCERN

In today's interconnected world, the threat of pandemics and the rapid spread of emerging infectious diseases remain one of the gravest public health and safety challenges we face. Newly emerging viruses, bacteria, and other biological agents can be dispersed through the air, posing risks in densely populated areas, transportation hubs, healthcare facilities, and beyond. Rapid and accurate detection is critical for containing outbreaks before widespread transmission occurs.



EBT Co., Ltd. -PIONEERING BIOAEROSOL MONITORING TECHNOLOGY

As a global leader in aerobiology and bioaerosol monitoring, EBT Co., Ltd. is committed to developing cutting-edge solutions that safeguard environments against airborne biological threats. Our BioBats offers unparalleled early warning and real-time detection capabilities, taking airborne pathogen identification to unprecedented levels of accuracy, sensitivity, and situational awareness.



CORE INNOVATIONS



Breakthrough Technologies Driving Superior Bioaerosol Detection

BioBats embodies a major leap forward in bioaerosol detection, harnessing our proprietary innovations:



classification as Virus or Bacteria

O Robust algorithms minimize false

positive rates

Calculated based on integrated
 PM, CO2, TVOC, temperature, and
 humidity sensors

SYSTEM CAPABILITIES



UNMATCHED PERFORMANCE IN BIOAEROSOL MONITORING

- Q Rapid real-time detection of airborne viruses and bacteria in <60 seconds</p>
- O Simultaneous particulate matter monitoring for comprehensive air quality assessment
- Automated aerosol sample collection for confirmatory analysis
- Flexible data connectivity via Ethernet, etc.
- Seamless integration with cloud platforms for remote monitoring



DESIGNED FOR THE REAL WORLD

- 0 10.1" touchscreen display with intuitive user interface
- O Ruggedized industrial design for indoor and outdoor operation
- O Continuous autonomous monitoring or discrete sampling modes
- Tool-free access to replaceable filter cassettes
- O Low maintenance requirements and exceptional reliability



SPECIFICATIONS ତ CRITICAL APPLICATIONS



SPECIFICATIONS

Feature	Value
Dimensions	
Width x Height x Depth	339 mm x 510 mm x 250 mm
Weight	12.5 kg
Enclosure & Protection	Aluminum / Lockable
Sampling	
Air collection	>10L aerosol/min
Collecting particle size	0.3-10µm (microns)
Particle concentration ratio	>10 times
Fluorescence Method Analysis	
Threats	Virus, Bacteria
Classification	Yes
Sensitivity	100 ACPLA
Light Source	405nm CW Laser 80mW
Sensor	Semiconductor-based Optical Sensor 10^6 A/W sensitivity
Measurement wavelength	450-650nm emission
Analysis time	<60 secs

SPECIFICATIONS Feature Value Light Scattering Method Analysis Detection PM 1.0, PM 2.5, PM10 0~6000µg/m3 Range Virus Index Analysis PM, CO2, TVOC. Sensor Temperature, Humidity System Interface Full display 10.1-inch touch screen LCD. Display On-board LED status indicators Audible buzzer, visual Alerts display notifications Password Yes Power 110/220 VAC, EU/UK easy-Power detach plug compatible, 24/7/365 operation BIT Yes Internal disinfection UVC Decontamination LED Tablet, C2 Remote Control



VIGILANCE ACROSS KEY SECTORS

- Healthcare & Biodefense
 Homeland security monitoring
- Public Spaces & Transportation
- Mass transit hubs (airports, rail stations, terminal etc.)
- Outbreak tracing and surveillance



€∋EBT

Protect what matters the most with BioBats

BioBats empowers you to take proactive measures against airborne biological threats, promoting a safer and healthier environment for all.

Contact EBT Co., Ltd. today to safeguard your spaces!





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