



FLIR **IBAC™** OEM Kit

Instantaneous Biological Analyzer and Collector

The FLIR IBAC OEM Kit is a fully automated biological agent detector that alarms in less than 60 seconds when an airborne bio-threat is present. It uses UV-Laser induced fluorescence to discriminate biological organisms from background particles, reliably detecting all four classes of bio-agents at concentrations below 100 ACPLA with low false alarm rates. The IBAC OEM system can operate integrated in an UAV or robotic system, or as part of a network configuration to form the "first tier" of a building/critical infrastructure protection system. Its four stages work together continually to monitor the environment for the presence of bio-threats, alarm upon detection, collect and preserve samples for confirmatory analysis, and transmit data to command and control centers. The IBAC OEM Kit offers a flexible, field-ready solution for bio-aerosol monitoring.



CUSTOM APPLICATIONS

- Building protection
- Force protection
- UAV and robotic integration
- Stealth missions
- Mass transit security
- Mobile labs
- Integrated CBRNE systems



FEATURES & BENEFITS

- Affordable, real-time warning capability for bio-aerosol threats
- Most mature and widely deployed bio-trigger device
- Detects spores, bacteria, virus, and toxins
- Autonomous 24/7 operation with no consumables
- Alarm automatically triggers sample collection
- Detection algorithms for indoor and outdoor use
- Compact, lightweight, and rugged
- Integrates with facility monitoring and control systems
- US Government validated

Specifications

IBAC OEM Kit	
Technology	UV Laser Induced Fluorescence (LIF)
Sampling & Analysis	
Sample Introduction	Airborne particles; triggered aerosol sample collector
Sample Phase	Aerosol; flow rate 4.0 L/min (0.14 ft ³ /min)
Threats	Spores, vegetative bacteria, viruses, and toxins; particle size: 0.7 – 10 microns
Sensitivity	<100 particles/L of air
Sampling & Analysis	Continuous sampling 24/7/365; indoor/outdoor alarm settings; analysis time configurable down to 1 second
Sample Collection	Integrated sample collector at 30 L/minute
System Interface	
Interface	RS-232; optional embedded wireless (900MHz or 2.4GHz)
Outputs	Service and alarm
Power	
Input Voltage	12.0 VDC + 0.70; - 0.10 VDC
Power Consumption	≤11 Watts
Environmental	
Operating Temp	-14 to 122 °F (-10 to 50 °C)
Operating Humidity	0% to 95%, non-condensing
Storage Temp	-40 to 160 °F (-40 to 70 °C)
Physical Features	
Dimensions (L x W x H)	6.0 x 4.0 x 5.0 in (15.3 x 10.2 x 12.8 cm)
Weight	5 lbs (2.7 kg)
Enclosure & Protection	Aluminum, IP66 weatherproof inlet
Mounting	Mounted within secondary enclosure



HEADQUARTERS

FLIR Systems, Inc.
27700 SW Parkway Ave
Wilsonville, OR 97070

DETECTION SALES, AMERICAS

FLIR Detection, Inc.
2800 Crystal Drive, #330
Arlington, VA 22202
Phone: +1-877-692-2120
detection@flir.com

DETECTION SALES, APAC

FLIR Detection, Inc.
3 Pickering Street #03-49
Nankin Row
Singapore - 048660
Phone: +65-6822-1596
detection@flir.com

DETECTION SALES, EMEA

FLIR Detection, Inc.
Luxemburgstraat 2
2321 Meer
Belgium
Phone: +32 (0) 3665 5106
detection@flir.com

www.flir.com
NASDAQ: FLIR

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