



FLIR BioCapture™

Handheld Bio-Threat Collection

The FLIR BioCapture is a handheld, battery-powered air sampler that collects aerosolized biological threats like anthrax, plague, smallpox, and tularemia into a concentrated liquid sample for eventual analysis. The sampler combines rugged design with laboratory-grade capability for simple and efficient biological sampling preparedness. Integrated BioCapture technology combines a rotating impactor, fluid chamber, fluid lines, and sample vial into one pre-assembled, disposable cartridge that eliminates the possibility of cross-contamination. When sampling operations are complete, users simply install a new snap-in cartridge and the BioCapture is ready for the next mission. Designed for first responders working in unfamiliar, challenging, and dangerous environments, the BioCapture provides large single-button operation that enables responders to quickly execute the sampling mission and proceed to other objectives. Whether the user is operating in a hot zone dressed in Level A or MOPP-IV gear or performing intermittent air sampling in a mail room, operating the BioCapture is effortless and extremely cost effective.

CUSTOM APPLICATIONS

- Mission-based incident response
- Force protection

FEATURES & BENEFITS

- Single-button operation in hot zone
- Easy to operate by user in fully dressed Level A or MOPP-IV gear
- Deployment ready for emergency use
- Collects biological aerosols
- Disposable collector cartridge prevents cross contamination
- 100% decontamination ability

Specifications

BioCapture	
Technology	Rotating impactor collector
Sampling & Analysis	
Sample Introduction	Aerosol sample collection cartridge
Sample Phase	Aerosol
Flow Rate	200 L/min
Sample Volume	2-7 mL
Threats	Collects biological threat samples (no detection) with particle size approx. 0.5-10 microns
Sampling & Analysis	5, 15, 30, and 60 minute sampling times
Sample Identification	Cartridge compatible with lab analysis, PCR, and immuno assays
System Interface	
Display & Alerts	LCD and LED displays
Training Requirements	No training or special skills required
Power	
Input Voltage	12 VDC
Battery Specs	Li-ion; up to 2 hrs runtime
Cold Start Time	<2 mins (includes self-calibration & diagnostics)
Environmental	
Operating Temp	35 to 110 °F (2 to 43 °C)
Operating Humidity	5 to 95%, non-condensing
Operating Angle	0 to 20° (horizontal)
Operating Altitude	Up to 15,000 feet (4572 meters)
Rain Water-Tight	1.8 in (4.6 cm)/hour in 20 mph (32.2 km/h) wind for 30 minutes
Storage Temp	Unit: -51 to 140 °F (-46 to 60 °C); remove battery before storing Battery: 32 to 96 °F (0 to 35 °C) for longest shelf life
Physical Features	
Dimensions (L x W x H)	14.5 x 6.0 x 5.3 in (37.0 x 15.2 x 13.3 cm) - with battery and cartridge
Weight	7.5 lbs (3.4 kg) - with battery and cartridge



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