

# Technical Information

## BioFlash® Biological Identifier

### RAPID, BIOLOGICAL AEROSOL COLLECTION & IDENTIFICATION SYSTEM



#### Feature Highlights

- Proven technology
- Particle collection of 1-10 micron size particles
- Low operational and maintenance costs
- Compact and lightweight design
- Easy to use and decontaminate
- PCR levels of sensitivity and specificity
- Can be configured as a stand-alone device or an integrated component subsystem

The BioFlash® Biological Identifier is a bio-aerosol collection and identification system.

The BioFlash® provides rapid, sensitive and specific identification of biological threat agents and other pathogens including toxins. The portable and compact BioFlash® offers breakthrough capabilities in sampling performance, reliability and operational cost.

The BioFlash® uses proprietary aerosol collection technology and the platform CANARY™ technology to offer a complete, stand-alone solution for biological identification. CANARY™ technology was originally developed at MIT Lincoln Laboratory and has been tested at Pacific Northwest National Lab, Dugway Proving Ground and Edgewood Chemical Biological Center (ECBC). The technology has been used for over a decade in building security and mail screening applications.

The instrument has a range of market applications including networked air monitoring for building protection, mailroom screening for military and commercial security, and a biological identifier for reconnaissance vehicles and mobile labs.

## Technical Specifications:

Physical System Requirements	Power: External 110V-220V, 50-60Hz
	Power Consumption: .1 A (blower off) / 3.5 A (blower on)
	Weight: 15.9kg (35lbs)
	Operating Temp. Range: 10°C to 40°C (50°F to 104°F)
	Size (W x D x H): 30.48 x 40.64 x 31.75cm (12 x 16 x 12.5in)
	Flow Rate 480 LPM with integral flow regulation
Sampling Time	Variable to fit application. Recommended 1 minute for ambient air, 20 seconds for mail bin screening
Sample Size	Up to 24 hours of continuous air collection or 60 phased collection cycles per BioDisc™
Sensitivity	50 agent containing particles per liter of air (ACPLA)
Selectivity	Single test probability of false-alarm (PFA) < 0.05% and > 98% probability of Identification (PD) (at 50 ACPLA)
Response Time	3 minutes

## Product Features

Easy to use	Enlarged, sealed pushbuttons
	Expansive display screen
	Lightweight and portable
	Able to decontaminate while wearing Personal Protective Equipment
Assay Format	Proprietary 16-channel disc containing all necessary reagents and consumables
User Interface	Sealed touch-pad controls with large LCD display easily usable and viewable in personal protective equipment
External cleaning	BioFlash® has smooth surfaces and minimal hard-to-clean areas so external surfaces can be sprayed or rinsed with alcohol or bleach
Available Assays	Bacteria, Toxins, Viruses

## BioDisc Assay®

