

# Defender TSR™



*Raising the Standard*

## Hand-Held Biological Identification For IAQ Monitoring

Alexeter Technologies' introduced the first reliable, field-portable biological detection and identification capabilities for first responders, security agencies and military units in July, 2000. Since then, the Guardian Reader System has become the standard in the United States and over 40 nations around the world.

We are now introducing this technology to the Indoor Air Quality market, for the detection and identification of molds which cause discomfort and disease. Following EPA guidelines, the Aspergillus/Penicillium IAQ-Pro™ test targets the Group 1 fungi in the Environmental Relative Moldiness Index (ERMI).

- Major (Group 1) molds detected (Asp/Pen)
- Proven lateral-flow immunoassay technology
- Embedded RFID tags automatically provide chain of custody.

**Alexeter**  
Technologies LLC

*Commercial Biological Defense Systems*

# Features and specifications

Combined, the Defender TSR (Test Strip Reader) and Alexeter's BioTest assays offer maximum portability, sensitivity and well as the most complete set of biological tests currently available. Field-ready, this 1.5 lb unit offers improved performance and the flexibility of industry-standard software. Step-by-step on-screen instructions guide you through the simple testing process. Our legendary 24/7 Technical Assistance Support Line is always standing by if you need more help.

## BIOLOGICAL ANTIGENS DETECTED

Anthrax, Ricin, Botulinum Toxin (A and B), Staphylococcal Enterotoxin B, Plague, Tularemia, Brucella, Orthopox, Penicillium/Aspergillus, and Stachybotrys\*

## FIELD USE DATA

**Setup Time:** 30 seconds

**Calibration:** Automatic, no user input required

**Test Modes:** Manual and Automatic

**Test Time:**

- First test: 18 minutes
- 8 tests run in parallel: 24 min.
- Throughput: 60 tests/hour

## User interface:

High-resolution color screen, audible and visual user prompts, on-screen countdown for automatic mode test

## Training:

Integrated user tutorial on instrument

## Transport:

Rugged design and custom case enclosure for transport and storage

## Battery Life:

6 hours, 8 hours with optional battery pack, continuous with 120-240 V AC

## HARDWARE

**Weight:** 1.5 pounds ( 0.7 kg)

**Size:** Ergonomic handheld design for gloved operation

**Platform:** Fully enclosed and integrated HP IPAQ™ Pocket PC

**Operating system:** Windows Mobile™ (CE 4.2)

**Screen:** 4-inch VGA day-viewable, high resolution TFT color display touch-screen

**Input:** Mousepad navigation or stylus entry methods

**Security:** Password-protected access

**Memory:** 128 MB, expandable to 1 GB

## CONNECTIVITY

- WiFi (encrypted 802.11x) and Bluetooth® for wireless connection to your network
- USB Port for wired connectivity with PC's

## OPTIONS

- GPS add-on capability
- 1 GB memory upgrade
- HAZMAT Database and Aerial Dispersion software available
- IrDA (wireless infrared) printer
- Extended internal battery module
- Rugged soft rubber sleeve for additional protection

\* In development



Field ready, the entire system weighs 7 lbs.

