One Fast, Rugged Tool

Built to quickly and accurately identify threats in the field, Morpho Detection’s StreetLab Mobile is a go-anywhere, user-friendly handheld unit that can identify chemical substances using Raman Spectroscopy for data capture and analysis. Rugged, yet ergonomic and lightweight, StreetLab Mobile can reliably identify liquids, powders, and solids in a single step without sample consumption or subjective interpretation.

At Home in the Field

Designed with input from hazmat technicians, StreetLab Mobile is ergonomically optimized for ease-of-use in Level A gear, with large buttons, straightforward on-board LCD screen readouts, joystick function and “point-and-shoot” operation. Made of highly durable and fully decontaminable LEXAN®, it’s ready to perform in many environments—even the hot zone.

StreetLab Mobile uses extended-range wireless technology to quickly deliver results right from the hot zone via one-hand or remote operation, allowing incident command to make tactical decisions faster and more effectively while minimizing the team’s exposure to threats.

Benefits

- Broad identification capabilities—TICs/TIMs, explosives, narcotics and CWAs
- Rapid, comprehensive identification of mixtures and single substances
- Flexible sampling options
- Remote, wireless control from “cold zone” for operator safety
Reliable Analysis Using Raman Technology

Utilizing Raman spectroscopy, StreetLab Mobile identifies substances based on their molecular structure. Raman spectroscopy permits samples to be analyzed nondestructively and can be used to identify a wide range of substances including toxic industrial chemicals, explosives, and narcotics. Unlike chemical tests, results are clear, repeatable and completed in a single operation.

Equipped with a near-infrared laser, StreetLab Mobile analyzes frequency shifts in the light scattered off a sample to recognize the “spectral fingerprint” of a substance, even those dissolved in water or other liquids.

Each substance has a characteristic fingerprint with multiple peaks.

Sample Displays

Screen display uses spectral information to identify substances.

Simple on-board user interface.

Display indicates operational status to user.
Innovative Threat Identification Technology, Optimized for Field Use

Versatile
- Identifies broad range of substances, i.e., toxic industrial chemicals (TICs), toxic industrial materials (TIMs), explosives, chemical warfare agents (CWAs), household chemicals, precursors and narcotics
- Advanced, patented search and mixture analysis algorithms
- Samples through glass, plastic, transparent– and even some translucent–materials
- Analyzes pills, powders, liquids and solids

Rugged, Go-Anywhere Design
- Ergonomically-optimized with large buttons, trigger activation and joystick for operation in Level A gear
- LEXAN EXL fabrication with rubber molding for strength and durability
- Submersible for full post-use decontamination, IP67 compliant

Expandable Library & Advanced Mixture Analysis
- Extensive and expandable threat libraries drawn from Environmental Protection Agency (EPA) and hazardous materials lists
- Quick analysis of chemicals and mixtures
- User customizable library for specific threats or substances
- Accurately identifies chemicals in mixtures at concentrations as low as 10-20%*

Easy to Operate
- “Point-and-shoot” one-hand operation with joystick controls
- Optimized balance allows for stable one-hand or hands-free analysis
- Rapid automated calibration to ensure operational accuracy
- Simple software interface delivers on-board results
- Environmentally friendly, no chemical disposal
- Can require virtually no maintenance, minimizing operational costs
- 24 x 7 technical support

Extended Wireless Capability
- Remote control operation to safely interrogate samples from a distance
- Maximized urban line-of-sight: ~1,500 ft (500 m)
- Wireless modem technology

Fast
- No sample preparation required for chemical identification
- Identifies substances from a single test
- On-the-spot results (30 seconds analysis for most compounds)

Sample/Process
- Automatically saves test results, preventing intentional or accidental modification or deletions
- Integrated vial holder allows for added sampling flexibility
- Non-destructive testing preserves samples for additional test and/or for use as evidence

Portable
- Lightweight unit: 6.5 lb (3.0 kg) including battery
- 5 hour battery life for field operation
- Hard case for added protection during shipping and transportation

*Dependent on mixture's specific chemical(s) and substances.
**Worldwide Contacts**

- **7151 Gateway Boulevard**
  Newark, CA 94560 USA
  Tel: +1 510 739 2400
  Fax: +1 510 739 6400

- **Wilmington, MA USA**
  Tel: +1 800 433 5346
  Fax: +1 866 249 9105
  Outside the U.S.: +1 978 658 3767

- **Reston, VA USA**
  Tel: +1 571 346 3400
  Fax: +1 571 346 3401

- **Cambridge, UK**
  Tel: +44 (0) 1223 728888
  Fax: +44 (0) 1223 728889
  sales.mduk@morphodetection.com

- **Diegem, Belgium**
  Tel: +32 (0)2 403 17 60
  Fax: +32 (0)2 403 12 12

- **Hamburg, Germany**
  Tel: +49 (0) 40 82315 555
  Fax: +49 (0) 40 82315 170

- **Bangalore, India**
  Tel: +91 80 4060 0815
  Fax: +91 80 4060 0700

- **Shanghai, China**
  Tel: +86 21 3877 7888
  Fax: +86 21 3877 7502

- **Lane Cove, Australia**
  Tel: +61 2 9424 3500
  Fax: +61 2 9424 3540

- [www.morphodetection.com](http://www.morphodetection.com)

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**Specifications**

- **Laser:**
  785 nm

- **Battery Life:**
  > 5 hrs

- **Warm Up:**
  30 sec

- **Average Scan:**
  Sample-dependant; 30 seconds analysis for most compounds

- **Operation:**
  “Point-and-shoot”, hands-free, vial

- **User Interface:**
  Joystick + 2 buttons + trigger

- **Library:**
  8000 substances

- **Wireless:**
  Wireless modem technology; 900MHz and 2.4GHz available

- **Wireless Range:**
  Estimated urban line-of-sight: ~1,500 ft (500 m)

- **I/O:**
  DC Input, USB

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**Dimensions**

- **Height:** 15 in (38.1 cm)
- **Width:** 5.5 in (14 cm)
- **Depth:** 8 in (20.3 cm)
- **Weight:** 6.5 lb (3 kg)
  (including battery)