

GE Security

Built to quickly and accurately identify threats in the field, GE'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.

StreetLab Mobile™

Identify chemical threats with a field-ready handheld instrument

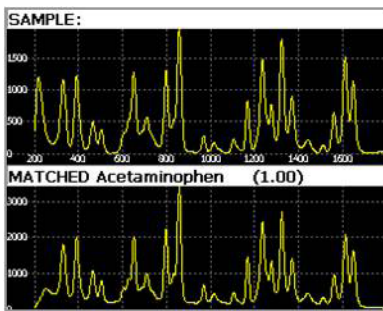
Potential Applications

- First responders
- Military facilities
- Customs/border interdiction
- High-security events
- Petrochemical facilities
- Law enforcement

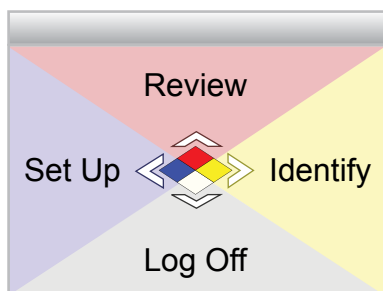


imagination at work

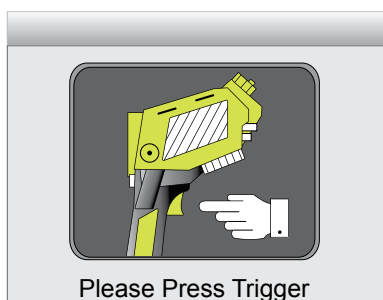
Sample Displays



Screen display uses spectral information to identify substances.



Simple on-board user interface.



Display indicates operational status to user.

At Home in the Field

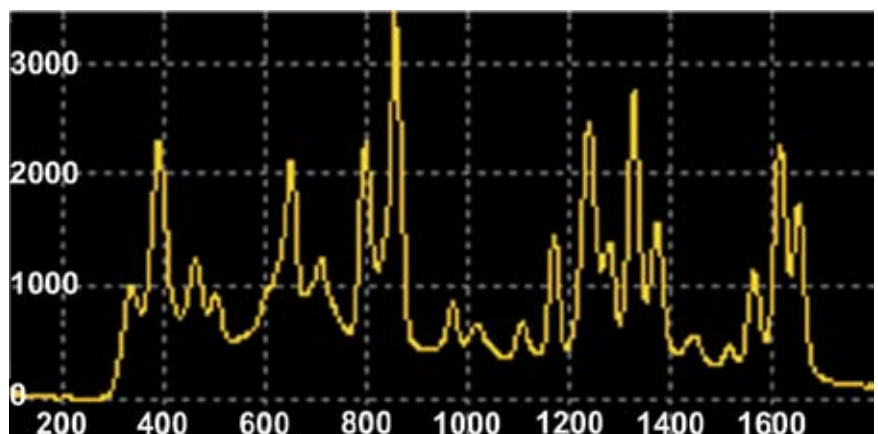
Designed with input from hazmat technicians, StreetLab Mobile is ergonomically optimized for ease-of-use in Level A gear, with large buttons, straightforward on-board LCD screen readouts, joystick function and “point-and-shoot” operation. Made of highly durable and fully decontaminable LEXAN[®], it's 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.

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 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.

Innovative Threat Identification Technology, Optimized for Field Use

Versatile	<ul style="list-style-type: none">• Identifies broad range of substances (i.e., toxic industrial chemicals, toxic industrial materials, explosives, and narcotics)• Samples through glass, plastic, transparent- and even translucent- materials• Analyzes pills, powders, liquids and solids
Rugged, Go-Anywhere Design	<ul style="list-style-type: none">• 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
Expandable Library & Accurate Mixture Analysis	<ul style="list-style-type: none">• Extensive and expandable relevant threat libraries allow for a range of identification needs• Quick analysis of chemicals and mixtures• Accurately identifies chemicals in mixtures at concentrations as low as 30%*
Easy to Operate	<ul style="list-style-type: none">• “Point-and-shoot” single-handed operation with joystick controls• Optimized balance allows for stable one handed or hands-free analysis• Rapid automated calibration to ensure operational accuracy• Simple software interface delivers on-board results• 24 x 7 technical support
Extended Wireless Capability	<ul style="list-style-type: none">• Remote operation to safely interrogate samples from a distance• Transmit results in < 2 sec• Maximized urban line-of-sight: ~500m• Wireless modem technology
Fast	<ul style="list-style-type: none">• No sample preparation required• Identifies substances from a single test• On-the-spot results (< 2 minute analysis for most compounds)
Accurate	<ul style="list-style-type: none">• Rapid automated calibration to ensure operational accuracy• Minimizes human error by minimizing sample preparation and test interpretation• Standardized libraries provide precise results
Sample/Process	<ul style="list-style-type: none">• Automatically saves test results, preventing intentional or unintentional modification or deletions• Integrated sample vial holder allows for added sampling flexibility• Non-destructive testing preserves samples for additional tests and/or as evidence
Portable	<ul style="list-style-type: none">• Lightweight: 6.5 lbs including battery• 5-hour battery life for field operation• Hard case for added protection during shipping and transportation
Safe	<ul style="list-style-type: none">• No sample preparation reduces potential exposure to additional hazardous chemicals• Environmentally friendly, no chemical disposal
Cost-Effective	<ul style="list-style-type: none">• Can require virtually no maintenance, potentially minimizing operational costs• Can help customers reduce capital investments by providing a single solution for field use

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

Worldwide Locations

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www.gesecurity.com

Specifications

Laser:

785 nm

Battery Life:

> 5 hrs

Warm up Time:

~30 sec

Average Scan:

Sample-dependant; most <2 minutes

Operation:

"Point-and-shoot", hands-free and vial

User Interface:

Joystick + 2 buttons + trigger

Library:

900 chemicals

Wireless:

Wireless modem technology
900 MHz and 2.4GHz available

Wireless Range:

Estimated urban line-of-sight: ~500m

I/O:

DC Input, 2 USB Master, USB Slave and Serial

Dimensions

Height	15 in (38.1 cm)
Width	5.5 in (14 cm)
Depth	8 in (20.3 cm)
Weight	6.5 lbs (3 kg) including battery



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