

ClearPoint™

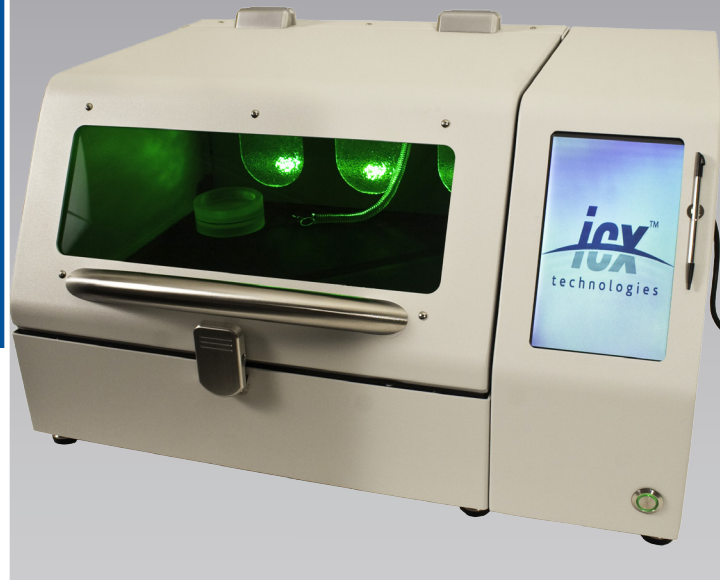
BOTTLED LIQUID SCREENER

ClearPoint™ is a desktop implementation of the GSA-listed Fido Verdict™ ruggedized, palm-sized Raman spectroscopy scanner for rapidly identifying suspicious liquids, solids and powdered materials.

By incorporating a radically different sampling approach and user software written from the ground up to support bottled liquid screening, ClearPoint significantly improves operator efficiency and reduces the possibility of operator error. Additionally, proprietary signal analysis algorithms minimize the impact of fluorescence and noise in acquired Raman spectra to reduce false alarm rates below the level obtainable by standard correlation analysis.

The Fido Verdict handheld was designed to enable security, military and law enforcement officers to easily screen suspicious items at any location. With a sample analysis time of 10 to 30 seconds, it is able to identify common powders, narcotics, explosives, toxic industrial chemicals (TICs) and chemical warfare agents (CWAs). As a desktop bottled liquid scanner, ClearPoint provides similar convenience and speed for screening bottled liquids while providing enhanced matching algorithms, application-specific libraries, a checkpoint-optimized sampling approach and a tailored user interface. In addition, the ClearPoint design eliminates the need for personal protective equipment.

Placing bottles in the system is facilitated by an optical geometry and open bottle support plate that automatically accepts a wide variety of bottle sizes, shapes and labeling challenges; it accommodates round, square and oddly shaped bottles placed upright or on their sides, in a wide range of sizes without user adjustment. Building on the Fido pedigree of highly sensitive detection systems, ClearPoint uses the well-established technique of Raman spectroscopy to identify unknown materials directly through sealed containers. This identification method minimizes sample handling and eliminates consumables.



BENEFITS

- Accommodates a wide variety of bottle shapes and sizes
- Eliminates the need for personal protective equipment
- Rapid sampling times
- Prompt, accurate substance identification
- Easy to use interface via a touch screen
- Fast throughput

SPECIFICATIONS

Power	115 V / 8A AC or 230 V / 4 A AC, 50/60 Hz Autoselecting
Dimensions	22 in x 15.5 in x 13 in
Weight	38.5 lbs (17 kg)
Technology	Raman spectroscopy
Connectivity	Ethernet, USB

LASER

Laser Wavelength	785 nm
Laser Power	100 mW max. (70 mW typical)
Laser Class	Class I

LIQUID SAMPLING

Containers	Clear or colored plastic or glass
Liquid Volume	1 mL to 2000 mL
Analysis Time	15 sec
Identifies	Flammables, acids, bases, explosives, solvents

ENVIRONMENT

Altitude	-300 to 5000 ft
Temperature	32°F to 105°F (0°C to 41°C)
Humidity	0 to 95%, non-condensing



FEATURES

- Uses well-established Raman spectroscopy technology
- Scans powders and through sealed containers
- Minimum sampling handling
- No consumables required
- Provides convenient checkpoint scanning capabilities



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