



Metrohm TacticID-1064 ST

Technical Specifications

EFFICIENT, COMPREHENSIVE, ACCURATE RAMAN

The TacticID-1064 ST is an invaluable tool for identification of thousands of illicit and hazardous chemicals at the point of contact.

Safe Sampling

The TacticID-1064 ST uses "see through" technology, allowing users to identify the contents of containers without opening them. Hazardous material identification and quality control measurements can be made safely, efficiently, and accurately.

Comprehensive Detection Abilities

With 1064 nm excitation, the largest Raman libraries available, and intuitive on-board guides, TacticID-1064 ST ensures efficient and accurate testing of a wide variety of samples.

Rapid Results

Advanced optical design and data-processing algorithms significantly reduce the time required for substance identification. Users may obtain reliable data in seconds, enhancing the decision-making process and streamlining workflows.

Maximize Efficiency

TacticID-1064 ST's compact size and ergonomic design ensure that users can handle the device with ease and comfort during extended use. Quickly and efficiently carry out tasks in-situ, from field operations to laboratory work.

Unmatched Identification Power

TacticID-1064 ST makes the identification of unknown substances quick and easy. Users can select targeted classes of chemicals for unparalleled identification.

Swappable Battery

Reduce downtime and ensure uninterrupted operation! Exchanging batteries without changing the instrument status boosts productivity.

OPERATING SPECIFICATIONS

Modes of Operation	Handheld 1064 nm Raman See-through Container Analysis Mixture Analysis
Laser Wavelength	1064 nm $\pm$ 0.2 nm, 1.0×10^{-6} cm ⁻¹
Laser Power	Maximum 495 mW Class IIIB laser below 500 mW ANSI Z136.1 standard
Laser Power Adjustment	1% increments (1 - 100%)
Spectral Range	176 — 2,500 cm ⁻¹
Spectral Resolution	< 11 cm ⁻¹ (FWHM) across range
Detector	512 pixel TE Cooled InGaAs
Collection Optics	0-10 mm working distance 0.20 mm spot size
Sampling Accessories	Quick connect, no tools required Recognized by device On-screen guidance Active accessory interlock
Library	29,100 entries, sublibraries
Battery	Replaceable, rechargeable Li-ion
Battery Life	> 5 hours Standby 150 hours
Integrated Camera	13 MP
Connectivity	USB, Bluetooth, Wi-Fi
Software & Applications	On-board, Hazmaster G3; Detectachem MobileConnect
Results Display	Pass/Fail, Sample Name, Color-coded, NFPA704, GHS
Display	Color 5" LED Touchscreen, Tactile Keys; Glove compatible
Ruggedness Military Standards	IP68; IEC 60529 Dust/immersion MIL-STD-810H 810H Method 514.8 CAT 4 Carrier/CAT 4 2-wheeled trailer/ CAT 4 wheeled vehicle 810H Method 516.8 Proc. II, IV, VI, 810H Method 501.7 Proc. I, II 810H Method 502.7 Proc. I, II
Temperature	-20 to +50 °C (operation) -20 to +70 °C (storage)
Dimensions	W 107 mm (4.3 in) x D 55 mm (2.2 in) x H 212 mm (8.4 in)
Weight	1.55 kg (3.42 lbs)



ACCESSORIES

See-Through (ST) Attachment	Test through paper, colored barriers, manufacturer packaging, and multiple layers of mixed media.
Right-Angle Attachment	Lay system down for full contact, hands free analysis.
Vial Holder	Identify powders or liquids in a vial.
General Attachment	Smart attachment with 6mm working distance.
SWD Attachment	Short (< 0.5 mm) Working Distance Attachment
Polystyrene Attachment	Validation with integrated ASTM standard
Immersion Probe	Identify unknowns in hard to reach places by contact or immersion.
LWD Attachment	Long (10 mm) Working Distance Attachment
Raman Libraries	Polymers Fragrances & Flavors Inorganics Organics Dyes, Pigments, & Stains Illicit & General Chemicals Explosives CWA User-created / Custom Regular updates and expansions