



# 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

<b>Modes of Operation</b>	Handheld 1064 nm Raman See-through Container Analysis Mixture Analysis
<b>Laser Wavelength</b>	1064 nm $\pm$ 0.5 nm
<b>Laser Power</b>	450 mW $\pm$ 10% Class IIIB laser below 500 mW ANSI Z136.1 standard
<b>Laser Power Adjustment</b>	1% increments (1 - 100%)
<b>Spectral Range</b>	176 — 2,500 $\text{cm}^{-1}$
<b>Spectral Resolution</b>	< 11 $\text{cm}^{-1}$ (FWHM) across range
<b>Detector</b>	512 pixel TE Cooled InGaAs
<b>Collection Optics</b>	0-10 mm working distance 0.20 mm spot size
<b>Sampling Accessories</b>	Quick connect, no tools required Recognized by device On-screen guidance Active accessory interlock
<b>Library</b>	26,000+ entries, sublibraries
<b>Battery</b>	Swappable, rechargeable Li-ion
<b>Battery Life</b>	> 5 hours Standby 150 hours
<b>Integrated Camera</b>	13 MP
<b>Connectivity</b>	USB, Bluetooth, Wi-Fi
<b>Software &amp; Applications</b>	On-board, Hazmaster G3; Detectachem MobileConnect
<b>Results Display</b>	Pass/Fail, Sample Name, Color-coded, Information Fidelity, GHS
<b>Display</b>	Color 5" LED Touchscreen, Tactile Keys; Glove compatible
<b>Ruggedness Military Standards</b>	IP68; IEC 60529 Dust MIL-STD-810G 810H Method 514.6C-1, C-2, C-3 810H Method 516.6 Proc. IV, VI 810H Method 512.5 Proc. I
<b>Temperature</b>	-20 to +50 °C (operation) -20 to +70 °C (storage)
<b>Dimensions</b>	W 107 mm (4.3 in) x D 55 mm (2.2 in) x H 212 mm (8.4 in)
<b>Weight</b>	1.55 kg (3.42 lbs)



## ACCESSORIES

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