

With increasing regulatory and liability pressures and the prevailing drive toward lean manufacturing, it is now more critical than ever to perform accurate incoming raw material identification. With the Thermo Scientific TruScan analyzer, a handheld Raman spectrometer, pharmaceutical manufacturers can obtain reliable material identity verification within seconds.

## Thermo Scientific TruScan

Handheld Raman for Pharmaceutical Raw Material Identification



The Thermo Scientific TruScan analyzer is a lightweight, handheld instrument for rapid raw material identification. Designed to meet the stringent requirements of pharmaceutical manufacturing operations, the TruScan® analyzer is proven and easily implemented into cGMP environments.

Offering incomparable ease-of-use, its non-destructive point-and-shoot operation enables material identification through sealed packaging to minimize risk of exposure and contamination. Using Raman spectroscopy, the TruScan analyzer determines within seconds if the contents of a container are chemically authentic.

### Key Benefits Include:

#### Ease-of-use

Its intuitive user interface and managed workflow minimize user error and ensure even novice users are quickly up and running.



#### Handheld

Weighing less than 4 pounds (1.8 kg), the analyzer can be used on the loading dock, in the warehouse, or wherever rapid material verification is required.

#### Results in seconds

The point-and-shoot operation offers a simple PASS/FAIL result in seconds.

#### Remain compliant

The TruScan analyzer is 21 CFR Part 11 compliant, and has UL and CE certification. It has built-in self-test diagnostics, including system checks at the start of every measurement, and system calibration to NIST and ASTM standards.

#### Applications Include:

- Incoming raw material identity verification
- Inspection of intermediate and final products
- Process troubleshooting
- Counterfeit identification



Once a measurement is complete, the analyzer provides a clear PASS/FAIL result within seconds.



The TruScan analyzer's point-and-shoot operation enables sampling through packaging such as double-bagged pharmaceutical ingredients in a drum or tablets in blister packaging.

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<b>Raman Spectrum Range</b>	250 $\text{cm}^{-1}$ to 2875 $\text{cm}^{-1}$
<b>Spectral Resolution</b>	7 to 10.5 $\text{cm}^{-1}$ (FWHM) across range
<b>Laser (excitation wavelength)</b>	785 nm +/- 0.5 nm, 2 $\text{cm}^{-1}$ linewidth
<b>Laser Output</b>	Auto-adjusted, 300 mW or lower
<b>Collection Optics</b>	NA = 0.33; 18 mm working distance; 0.2 mm to 2.5 mm spot size
<b>Exposure</b>	Automatic (100 ms minimum)
<b>Measurement Accessories</b>	Vial holder; universal tablet holder; FlexProbe (fiber-optic extension probe)
<b>Electronic Records and Signatures</b>	Designed for use in 21 CFR 11 compliant environments
<b>Battery</b>	Rechargeable 7.4 V Internal Lithium Ion Battery; >5 hours at 25 °C
<b>External Power Supply</b>	Wall plug transformer 100-240 V AC 50/60 Hz
<b>Weight</b>	< 4 lbs. (<1.8 kg)
<b>Size</b>	12" x 6" x 3" (30 cm x 15 cm x 7.6 cm)
<b>Operating Temperature</b>	-20 °C to +40 °C
<b>Barcode Supported Symbologies</b>	Most linear and 2D standards

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