With increasing regulatory pressures and the drive toward lean manufacturing, it is now more critical than ever to implement efficient ways to perform accurate incoming raw material identification.

With the Thermo Scientific TruScan RM analyzer, our next generation handheld Raman spectrometer, pharmaceutical manufacturers can obtain reliable material identity verification within seconds.

Thermo Scientific TruScan RM

Next Generation Handheld Raman for
Raw Material Identification

The Thermo Scientific TruScan RM analyzer is the next generation handheld Raman spectrometer for raw material identification and finished product inspection.

Our lightest, fastest and most portable analyzer is highly specific and performs rapid material identification at the point-of-need to decrease sampling costs and increase inventory turns. Designed for intuitive operation, its non-destructive point-and-shoot sampling principle facilitates rapid verification of a broad range of chemical compounds through sealed packaging to minimize the risk of contamination and exposure.

The TruScan® RM analyzer builds on the proven capability of the flagship TruScan analyzer, which is now used in hundreds of pharmaceutical manufacturing sites globally, to deliver a state-of-the-art optical platform paired with a revolutionary embedded analysis package. The analyzer also offers enhanced compliance features, as well as software and data management functions, designed to facilitate workflow and optimize efficiency in tightly regulated environments.

Key Benefits Include:

Fast
Overall performance enhancements provide faster PASS/FAIL results, and enable quicker method development and data synchronization.

Compliant
Enhanced 21 CFR Part 11 compliance security features, such as biometric log-in and optional password aging and complexity, allow users to customize the analyzer's security settings to exceed regulatory requirements.

Broad Material Coverage
State-of-the-art optics allow measurement of materials for which Raman analysis was traditionally considered too slow.

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Key Benefits (cont)

Smart
Built-in smart features, such as assisted signature acquisition and device qualification warnings, ensure successful material identification and prevent user error.

Easy to use
Enhanced user interface and improved functionality, such as consolidated batch reporting and intuitive workflow, make the analyzer consistent with current manufacturing processes.

Lightweight
Weighing less than 2 pounds (0.9kg), the analyzer is ergonomically designed to increase comfort and productivity during inspections.

Applications Include:
- Incoming raw material identity verification
- Counterfeit identification

The analyzer performs identification through sealed packaging to minimize the risk of contamination and exposure.
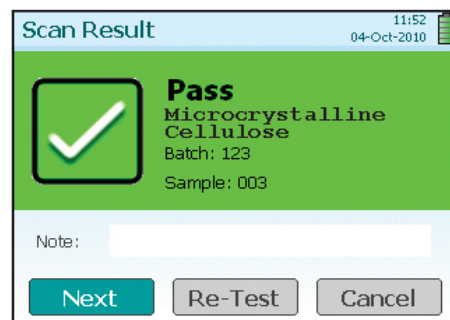
Once a measurement is complete, the analyzer provides a clear PASS/FAIL result within seconds.

Thermo Scientific TruScan RM

Raman Spectrum Range	250 to 2875 cm^{-1}
Spectral Resolution	8 to 10.5 cm^{-1} (FWHM) across range
Laser (excitation wavelength)	785 nm +/- 0.5 nm, 2 cm^{-1} line width, stability <0.1 cm^{-1}
Laser Output Power	250 mW +/-25 mW
Collection Optics	NA = 0.33, 18 mm working distance; 0.2 to 2.5 mm spot size
Exposure	Automatic modes (12 ms minimum)
Battery	Rechargeable internal lithium ion battery > 3 hours operation
External Power Supply	DC Wall Adapter, 100-240 V AC 50/60 Hz
Weight	2 lb (0.9 kg)
Size	8.2 in x 4.2 in x 1.7 in (20.8 cm x 10.7 cm x 4.3 cm)
Operating Temperature	-20 °C to +40 °C (continuous)
Barcode Supported Symbologies	Most linear and 2D standards
Biometrics	Fingerprint reader for easy login
Measurement Accessories	Vial holder, universal tablet holder
Compliance	FDA 1040, 21 CFR part 11, CE certification