

Thermo Scientific microPHAZIR RX

Handheld NIR for Pharmaceutical
Raw Material Identification

Raw material identification is a critical step in the quality control process that has tremendous impact on customer safety as well as speed — and cost — of production. With the Thermo Scientific microPHAZIR RX analyzer, a handheld NIR spectrometer, pharmaceutical manufacturers can obtain reliable material identity verification within seconds.



The Thermo Scientific microPHAZIR RX analyzer is a handheld Near-Infrared (NIR) instrument designed for rapid on-site pharmaceutical material identification and analysis. The 2.75 lb (1.25kg) analyzer is battery powered and completely self-contained for truly portable analysis.

The microPHAZIR™ RX analyzer provides pharmaceutical manufacturers with a portable tool to meet increasing regulatory requirements, improve product quality, and reduce manufacturing costs. The analyzer takes the power of NIR out of the laboratory and into the warehouse to cut costs, ensure product quality through increased testing frequency, while also reducing supply chain risk.

Key Benefits Include:

Save time and increase inspection

Handheld design allows operators to perform analysis right in the warehouse.

Eliminate operator and material exposure

Measures directly through plastic drum liners and glass containers.

100% container inspection

Convenient, non-invasive, sampling approach permits 100% container inspection without the proportional costs.

Improved supply chain risk management

Enables manufacturers to meet global GMP requirements, improve inventory management and reduce raw material supply risks.

Applications Include:

- Incoming raw material identification
- Quality control and assurance
- Counterfeit product screening
- At-Line Process Analytical Technology (PAT)
- Process troubleshooting
- Quantitative analysis





The analyzer can measure directly through plastic drum liners and glass containers permitting analysis without opening the packaging.



The microPHAZIR RX analyzer has a ready-to-use PharmaID library containing hundreds of pharmaceutical ingredients, including both APIs and excipients.

Thermo Scientific microPHAZIR RX

Principle of Operation	Non-destructive chemical analysis via Near Infrared Spectroscopy
Samples Mode	Diffuse reflectance, optional adapters for liquids
Weight	2.75 lb (1.25kg)
Light Source	Tungsten light bulb, safe for operators and sample integrity
Measurement Time	Less than 3 seconds
Data Download	Data and Applications synchronization via PC USB connection
Security	Multiple security levels
Batteries	Interchangeable, rechargeable 5+ hours lithium-ion battery pack. AC battery charger included. Battery pack recharge time <2 hours. System includes 2 batteries
Housing	High-strength, dust proof/splash proof plastic housing
Calibration	Factory tested to rigorous standards and USP 1119 protocol using traceable wavelength and photometric standards, includes certificate of compliance
Compliance	IQ/OQ/PQ Manual

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