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PORTABLE RAMAN SPECTROMETER - TORONRS™ P1064

Handheld Raman Spectrometer on series ToronRS™-P1064 engineered for high-accuracy pharmaceutical material identification. A distinctive feature of the Handheld Raman Spectrometer is its 1064nm laser, which delivers a broad detection range. This is particularly effective for analyzing raw materials that exhibit strong fluorescent signals, such as coenzymes, amino acids, and cellulose.

This portable raman spectometer supports 100% package-by-package inspection for both raw and packaging materials. By enabling quick identification in material preparation rooms, warehouses, and production workshops, these portable raman spectrometers significantly accelerate material release for pharmaceutical companies.

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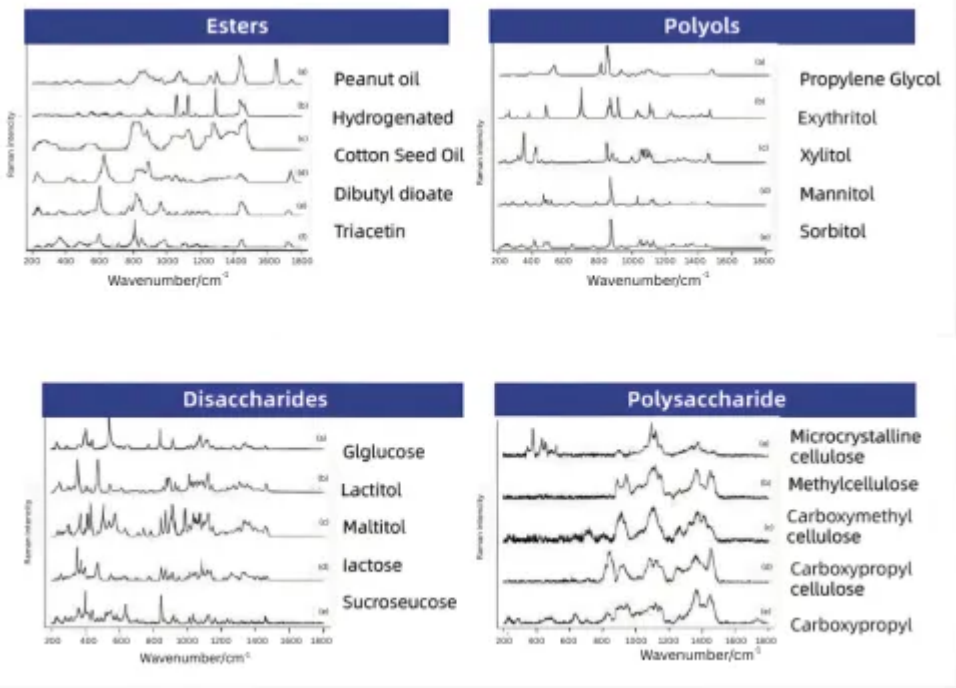
APPLICATIONS

Applications

The wide detection range covers various materials, including chemical, biochemical, and pigment excipients:

- Chemical Raw Materials: Aspirin, acetaminophen, folic acid, nicotinamide, and others.
- Biochemical Raw Materials: Amino acids and their derivatives, enzymes, coenzymes, proteins, and others.
- Pharmaceutical Excipients: Salts, alkalis, sugars, esters, alcohols, phenols,polymer excipients like gelatin, microcrystalline cellulose, and others.
- Pigment Excipients: Carmine, carotene, curcumin, chlorophyll, etc.
- Packaging Materials: Polyethylene, polypropylene, polycarbonate, and ethylene-vinyl acetate copolymer, and others.



The Portable Raman Spectrometer for Pharmaceutical is flexible, compact, and lightweight, making it suitable for a wide application area within pharmaceutical manufacturing:

- Warehouse Inspection: Rapid identification of raw materials and packaging upon receipt.
- Material Identification: Quickly identifying raw materials in the storehouse, material preparation room, and production workshop.
- Quality Control/Material Release: Performing 100% package-by-package inspection of materials for quick release.

FEATURES

Portable Raman Spectrometer - ToronRS™ P1064 (Advanced)Features/Advantages

The Handheld Raman Spectrometer for Pharmaceutical offers significant benefits for pharmaceutical quality assurance:

- Superior Detection Ability: Uses a unique 1064nm laser which offers stronger detection ability compared to ordinary 785nm Raman, especially for raw materials with strong fluorescent signals like amino acids and cellulose.
- Non-Destructive and Convenient: Allows direct detection through various packaging types, including glass, woven bags, plastic, and paper bags, avoiding sampling pollution.
- Rapid Response: Identification of materials can be completed within seconds.
- High Accuracy: An advanced machine learning algorithm is utilized to support accurate recognition.
- Portability: Compact and lightweight design allows flexible use in multiple environments.

TECHNICAL SPECIFICATIONS

Portable Raman Spectrometer - ToronRS™ P1064 (Advanced) Technical Specifications

Product Name	ToronRS™-P1064
Laser Wavelength	1064nm
Weight	730 gram (including battery)
Communication interface	USB/ Wi-Fi/ 4G/ Bluetooth
Power Supply	Rechargeable Li-battery
Dimension (L x W x H)	176 x 87 x 33 mm

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