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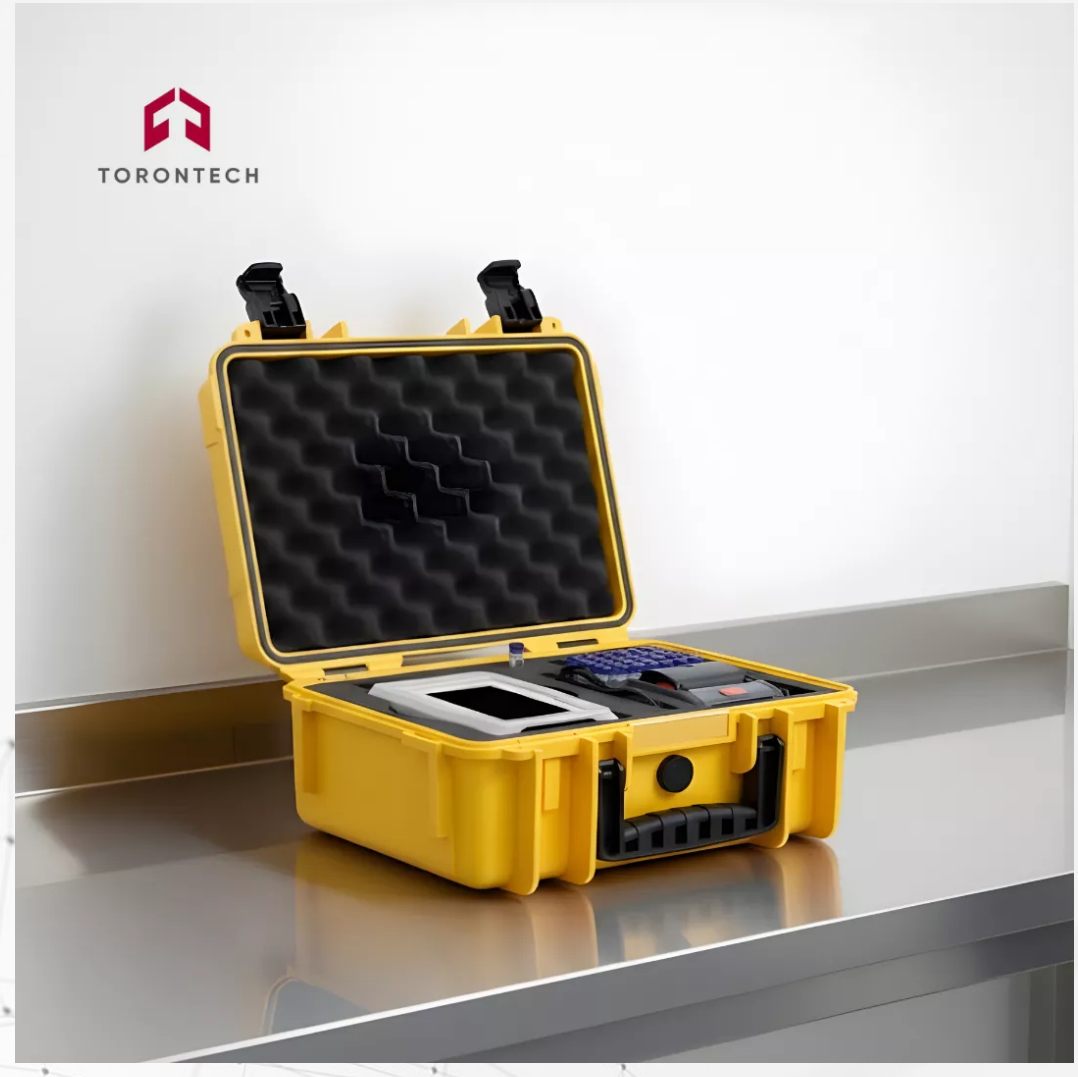

HANDHELD RAMAN SPECTROMETER

“Smartphone” in Raman

The Handheld Raman Spectrometer features spatially linked optics, electronic design, and stoichiometry algorithm seamlessly integrated for simple operation and outstanding performance.

Handheld Raman Spectrometer finds extensive application in healthcare, oil and gas, chemical manufacturing, and environmental conservation, as well as in food processing, materials analysis, law enforcement, marine operations, defense, and other sectors.

APPLICATIONS

Handheld Raman Spectrometer - Pharmaceutical field

Pharmaceutical field

Identification of raw materials
Rapid drug inspection and anti-counterfeiting
Detection of western medicine

Handheld Raman Spectrometer - Petrochemical industry

Petrochemical industry

Oil analysis
Testing of chemical raw materials, intermediate products and finished products

Handheld Raman Spectrometer - Jewelry archaeology

Jewelry archaeology

Staining identification
Crack filling material identification
Authenticity identification, etc

Handheld Raman Spectrometer - Materials Science

Materials Science

Quality identification
Structure identification
Polymer testing and identification

Handheld Raman Spectrometer - Security inspection and criminal investigation

Security inspection and criminal investigation

Rapid detection of drugs or contraband
Explosives detection
Identification of physical evidence, etc

Handheld Raman Spectrometer - Food safety

Food safety

Illegal add detection
Adulteration and identification of authenticity

Handheld Raman Spectrometer - Biomedical Science

Biomedical Science

Nondestructive testing
Bacterial test, etc

Handheld Raman Spectrometer - Other applications

Other

Scientific research
Environmental detection
Optical and semiconductor components testing, etc

FEATURES

User management

You can oversee existing accounts on the Handheld Raman Spectrometer and include new users as needed.

No sample handling required

The Handheld Raman Spectrometer enables swift identification of unknown solids and liquids, including aqueous and other solutions, through glass, plastic bags, and various transparent or translucent containers. No sample preparation is required, making Handheld Raman Spectrometer easy to operate.

Easy customization

With its embedded color touch screen, the device offers a straightforward and intuitive operation interface. Users can effortlessly construct databases and manage the instrument according to their specific requirements.

Multiform data output

A portable Bluetooth printer is included in Handheld Raman Spectrometer, allowing for data output in both EXCEL and PDF formats. Users have the ability to generate customized reports to suit their needs.

Database service

An extensive and customizable control list database is provided, featuring comprehensive libraries of controlled substances, thinners, and precursors. This aids users in swiftly and accurately screening samples.

Results the identification

The Handheld Raman Spectrometer automatically provides clear judgment results, greatly streamlining daily sample confirmation tasks.

TECHNICAL SPECIFICATIONS

Operating system (OS)	Android
The wavelength of the laser was determined by the wavelength of the laser	785 ± 0.5nm
The laser power is higher than that of the laser	0-500mW,Can be change
Raman shift range	200 - 3000cm^{-1}
The resolution	8-12cm^{-1}
Touch screen	5 inch, 1920×1080, Multi-Touch
Size	175 x 106 x 60mm（ L×W×H）
Weight	1.1KG
Communication interface	4G, WIFI, USB, Bluetooth
The database	Database of up to 20,000 substances
The power supply	Rechargeable lithium battery, working time ≥6 hours
Charging way	USB
Operating temperature	-20 – 50℃
Working environment humidity	0%—90%RH

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