OPTOSKY
Spectroscopy Solutions

Datasheet

Portable Raman Analyzer

Drugs, Explosives & Chemicals

Floor 22th, Creative Bld., 1300 Jimei Ave, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

Drugs,Explosives & Chemicals Portable Raman Analyzer

ATR3000DH

Feature

- WIFI connect；
- GPS accurate positioning
- Linear CCD Sensor；
- Super Reliability；
- Intelligent & Visual Operation Software, Easy-To-Operate by specialist and non-specialist
- 11.6 Inch Capacitive Touch-screen
- Android 4.4 Operation System；
- Built-in Li-battery span life > 5hrs
- Lightweight: 8.5kg easy-to-take to field test
- IP-67

Application

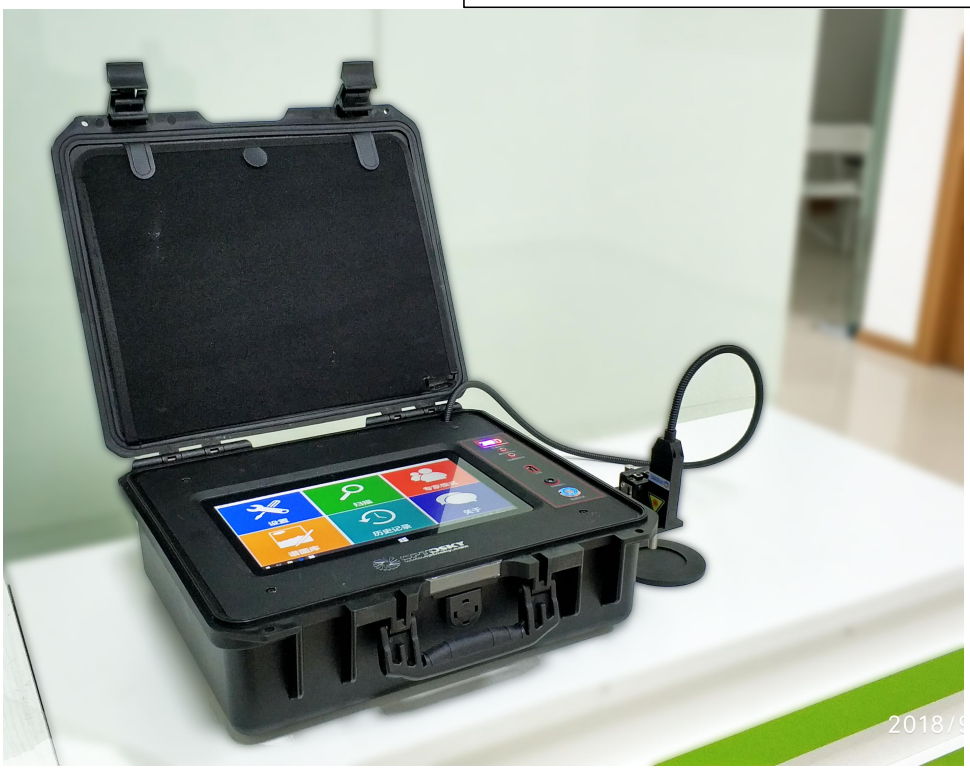
- Police,Customs,Border
- Metro, Airport, Event Scene

Description:

ATR3000DH portable Ram Analyzer has been newly launched to detect unknown drugs, explosives & chemicals ID in a fast & accurate way. Compact Raman is durable to detect accurate result in just few seconds.

It fits to various safety and crime scene personnel, including law enforcement personnel, hazardous materials technicians, crime scene investigators, and non-contact scan samples in the field.

Raman spectra indicates“finger print”of material , the unique spectra is perfect instrument to perform qualitative and quantitative analysis. Accurate, fast and non-destructive detect becomes a new trend.



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SPECIFICATION:

ATR3000DH	
Interface	USB 2.0 or WIFI
Operative System	Android 6.0
Screen	11.6-inch capacitive touch screen, multi-touch control;
Screen Resolution	1920X1080
Battery life span	>5 h
Integration Time	4ms - 120s
Power Voltage	DC 19V(+/-5%)
Operating Temp.	-10~40 ℃
Operating Humidity	< 95%
Dimension(L*W*H)	40×30×18 cm^3
Weight	7.5 Kg
Reliability	
Spectral Stability	σ/μ < 0.5% (COT 8 hours)
Temp. Stability	Spectral Shift ≤ 1 cm^{-1} (10-40 ℃)
Spectral Intensity shift (in 5 ~ 40 ℃)	<±5%
Optical Prameters	
Spectral Range (cm^{-1})	200-2600
Resolution (cm^{-1})	10
SNR	>3000:1
Detector	
Type	High-sensitivity 512pixels InGaAs CCD
Cooled down to	-20 ℃
Detect range	900-1700 nm
Effective pixels	512
Dynamic Range	50000: 1
Pixel size	25 ×500 μm
Exitation Laser	
Central Wavelength	1064 nm (+/-0.5nm)
Semi-peak width	0.1 nm
Max. Output	≥500 mW
Power Stability	σ/μ <±0.2%
Raman Probe	

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Operating Distance	6 mm
Blocking of filters	OD>8
Numerical aperture	0.3
Aperture	7mm

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