Electro Optical Components, Inc.

5460 Skylane Boulevard, Santa Rosa, CA 95403
Toll Free: 855-EOC-6300
www.eoc-inc.com | info@eoc-inc.com

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DATASHEET
EOC-SI-R6600Pro
Fast 1064 nm Handheld Raman Spectrometer
(4th generation)

Features:

- The speed of ultra-fast recognition is four times higher than that of the third generation.
- 1064nm stimulates light and reduces fluorescence interference;
- Loss-free, rapid detection and identification, one-click operation;
- Precision algorithm for detecting mixtures;
- HD 5.5-inch capacitive touch screen with superior sense of control;
- 1,300 HD cameras；
- Support barcode, QR code scanning；
- Accurate GPS positioning;
- support 4G, GSM, GPRS, Bluetooth, WI-FI and other communication methods；
- Support users to build their own genealogical library；
- The test results can generate reports and export them
- Endurance time of built-in lithium batteries: 4-6 hours
- super light weight (950 g) is easy to carry.
- IP-67 dustproof and waterproof industry protection

Description:

EOC-SI-R6600Pro is an era-wide new product based on 20 years of experience in Raman spectral development. It is based on the ultra-high fluorescence inhibition effect of 1064nm excitation light itself, which is especially suitable for the detection of high-fluorescence samples. EOC-SI-R6600Pro adopts a new design. High-throughput optical circuit structure and signal processing technology have increased signal sensitivity fourfold and detection speed fourfold.
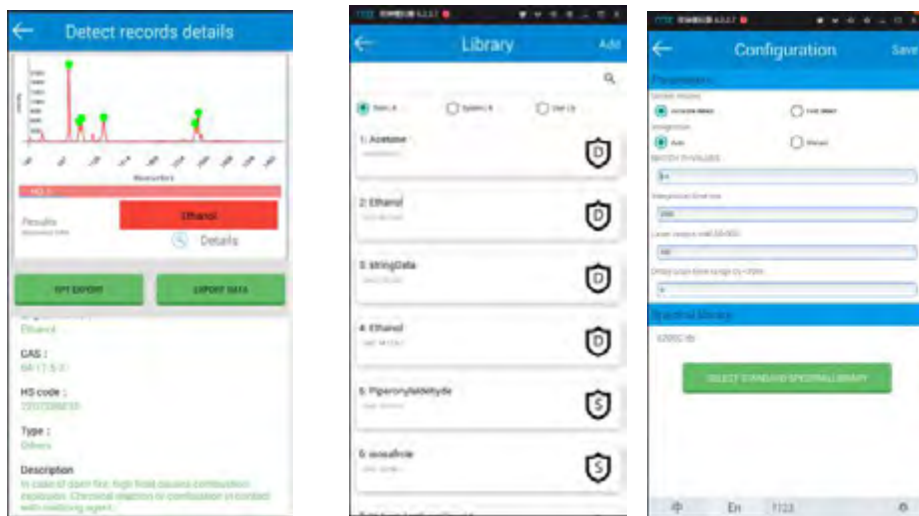
At the same time, it is very small, less than 900 g, and it is very convenient to carry. It can be used for rapid identification of drugs, precursor chemicals, explosives, jewelry jade, raw materials and other articles at the customs, public security, laboratories, workshops, warehouses, wharves, etc. And it can be used to quickly detect and identify additives, pesticide residues, veterinary drug residues in food.

EOC-SI-R6600Pro has an excellent built-in Raman spectroscopy recognition algorithm, which can detect substances indiscriminately, easily identify substances, and add users' own spectral data. It uses an Android system with a simple and clear interface, a 5.5-inch HD screen, and a high-definition camera of 13 million, which can record and detect the scene at any time, with built-in WIFI, Bluetooth, GPS and other modules, which are simple and intelligent.

Comprehensive technical support and services, such as spectral library establishment, method and verification, IQ/OP/PQ certification support, etc., are available.

Public safety, food safety, pharmaceutical safety, rapid non-destructive testing, everything is in your control!

EOC-SI-R6600Pro System Parameters			
Features	Super fluorescence suppression effect		
Operating system	Android		
Laser wavelength	1064 ± 0.5 nm		
Laser power	0-600 mW (Software adjustable)		
Wave number range	200-2500 cm^{-1}		
Resolution	8-15 cm^{-1}		
Optical path	Full free space optical path, no fiber insertion loss		
Touch screen	5.5 inches, 1920×1080, multi-touch		
Detector	TE cooled InGaAs		
Size	199×99.8×39.5 mm		
Weight	<950 g		
Interface	WIFI、USB Type-C、Bluetooth、GSM		
Instrument series and Application field	Model	Spectrum library	Application
	EOC-SI-R6600 Pro	User-built database	Research field

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	EOC-SI-R6600 Pro-DH	• Drugs: heroin, methamphetamine, cocaine, powder, fentanyl, alprazolam, etc. • Easy to poison: ephedrine, trichloromethane, ether, etc. • Explosives: TNT, RDX, TATP、ammonium nitrate, black solkin, Octojin, etc.Dangerous chemicals: Alcohol, sulfuric acid, gasoline, nitric acid, toluene, potassium dichromate, etc. • Food safety: illegal food additives, pesticide residues, etc.	Public security, customs, subway, court, prison, public places,Security check
	EOC-SI-R6600 Pro-PH	Identification of raw ingredients for the production of drugs, etc.	pharmaceutical factories,
	EOC-SI-R6600 Pro-GM	Jewelry jade:diamonds,onyx, emeralds, etc.	jewelry identification,
	EOC-SI-R6600 Pro-IN	Chemicals,plastics,rubber,polymers, synthetics, etc.	industrial applications
	EOC-SI-R6600 Pro-FTN	REMIFENTANIL、Brifentanil、Lofentanil、Trefentanil、Ocfentanil、Carfentanil、alfentanil、Mirfentanil、 FENTANYL-D5、ALFENTANIL HYDROCHLORIDE、SUFENTANIL CITRATE、Fentanyl citrate more than 40 kinds	
Report output	support the export of multi-information detection reports (detection results,spectral information, photographic evidence),txt,pdf,etc.		
Length of work	4-6 h		
charging method	USB Type-C		
Operating temperature	-20 – 50 ℃		

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