

# Portable Raman Analyzer with Fiber Probe



## FI-FO

## Series

## Finder Insight<sup>®</sup> Family

FI-FO Portable Raman Analyzer is a high performance Raman Spectrometer suitable for portable transportation. It can be applied to on-site rapid inspection and laboratory research. The whole machine adopts strong protective packaging design, which is convenient and practical.

FI-FO series with multiple wavelengths like 785, 830 & 1064nm as options. FI-FO with extensive applications such as food and drug safety, drug testing, dangerous chemicals testing, pharmaceutical engineering, pharmaceutical process (PAT), etc. Drug raw materials and accessories detection, jewelry identification, cultural relics identification, material evidence identification and many other applications.

### Features & Benefits

- Portable products with laboratory instrument performance
- Integrative design of the whole machine without additional accessories
- Flexible Raman Fiber Probe, Convenient and Practical
  - 10" Large Capacitance Touch Screen
  - Interactive human-computer interface, easy to operate
  - Build-in library to achieve fast comparison
  - Windows & Android versions are optional
  - Battery lifetime is more than 4 hours for portable application



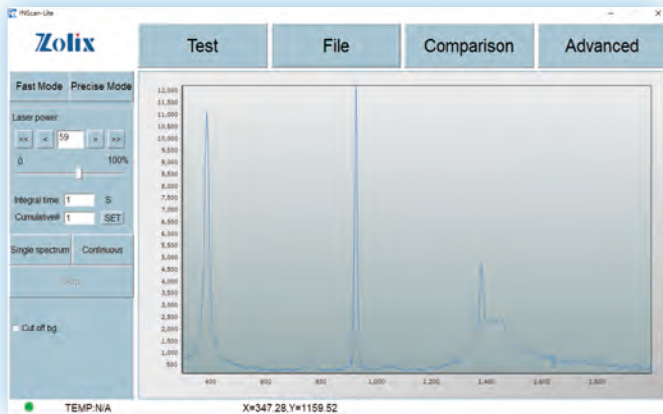
### Applications

- SERS (Surface Enhanced Raman Spectroscopy)
- Food & Pharmaceutical Fast Inspection
- Pharmaceutical-Raw Material Detection
- Identification of Art and Jewellery
- Anti-Counterfeiting
- Mineral Composition Detection
- Forensics
- Agriculture & Environmental Science
- Chemistry and Materials Science
- Custom & OEM Applications

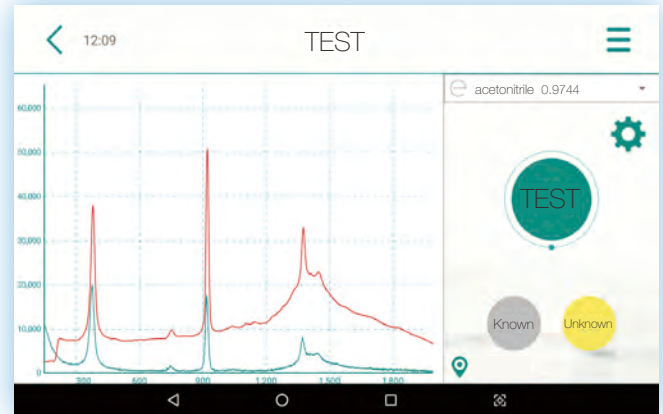
## Specifications

Part Number	FI-FO785-A FI-FO785-W	FI-FO785E-A FI-FO785E-W	FI-FO830-A FI-FO830-W	FI-FO830E-A FI-FO830E-W	FI-FO1064E-A FI-FO1064E-W
Laser Wavelength	785nm		830nm		1064nm
Laser Power	0-500mW				
Laser Linewidth	<0.1nm				
Spectral Range	200-2750cm <sup>-1</sup>	200-2750cm <sup>-1</sup>	200-2500cm <sup>-1</sup>	200-2500cm <sup>-1</sup>	200-2000cm <sup>-1</sup>
Optical Resolution	8-10cm <sup>-1</sup>	8-10cm <sup>-1</sup>	10-12cm <sup>-1</sup>	10-12cm <sup>-1</sup>	20-30cm <sup>-1</sup>
Detector Type	Back Illuminated CCD	Cooling CCD	Back Illuminated CCD	Cooling CCD	Cooling IGA PDA
Operation System	A: Android 7.1 W: Windows 10				
Software	Android/ Windows: Raman Spectrum Software app				
External Power	DC: 12V@4.17A AC: 100-240V, 50/60A, 1.7A				
Built-in Battery	10200mAh, 75Wh				
Dimensions	430*130*120mm				

### Windows Raman Spectrum Software

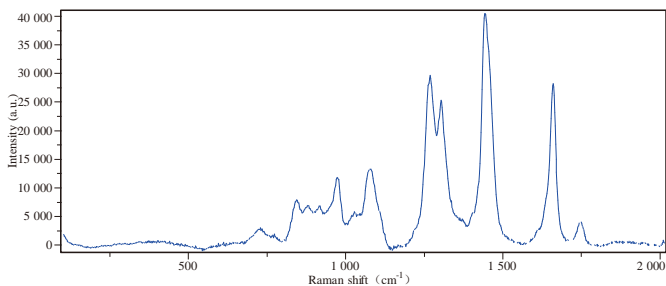


### Android Raman Spectrum Software

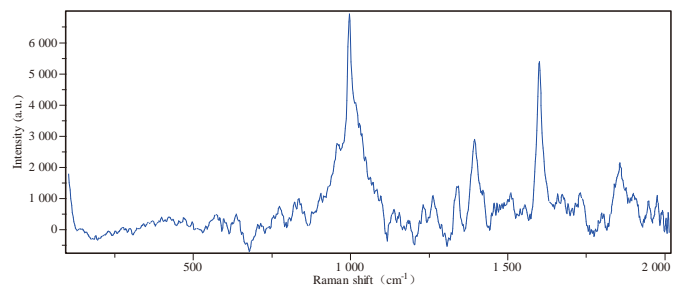


## Test Cases

### Pharmaceutical: Evening primrose oil



### Food Field: Acid orange



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