

Huijue 116 Spectrometer



AI Overview

The Huijue 116 Spectrometer is a high-performance analytical instrument designed for precise molecular and material analysis, commonly used in Raman and hyperspectral applications.

Overview The Huijue 116 Spectrometer is part of Huijue Group's line of advanced spectroscopic instruments, which focus on Raman spectroscopy, NIR, and hyperspectral imaging for laboratory and industrial applications. It is engineered to provide high sensitivity, broad spectral coverage, and accurate detection of chemical and material compositions, making it suitable for research, quality control, and process monitoring.

Key Features

- Spectral Range:** Typically covers UV to NIR regions, depending on configuration, allowing detection of a wide variety of molecular vibrations and electronic transitions.
- High Sensitivity:** Equipped with back-illuminated CMOS or sCMOS sensors for low-light detection and high quantum efficiency, enabling detection of trace components.
- Multichannel Capability:** Supports simultaneous measurement of multiple fiber channels, which is useful for high-throughput or multi-sample analysis.
- Optional Nitrogen Purge:** Enhances UV performance and reduces interference from atmospheric gases.
- Software Integration:** Compatible with spectroscopy software such as SpectraGryph for data acquisition, spectral processing, and quantitative analysis.

Applications

- Pharmaceutical Quality Control:** Non-destructive testing of APIs and excipients, with potential integration into process analytical technology (PAT) workflows.
- Material Science:** Characterization of polymers, nanomaterials, and composites using Raman or hyperspectral imaging.
- Environmental and Food Analysis:** Detection of contaminants, adulterants, or trace chemicals in complex matrices.
- Industrial Process Monitoring:** Inline or at-line monitoring of chemical processes, leveraging modular SERS arrays or fiber-coupled configurations.

Advantages High Throughput and Accuracy: Multichannel design allows simultaneo...

Article Content

PoliSpectra M116 provides simultaneous acquisition

The PoliSpectra M116 MultiTrack Fiber Spectrometer features a concentric optical design with UV extended spectral range (below 185 nm with optional N2 purge)

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PoliSpectra® H116 features broad UV-NIR coverage in one acquisition (185-1050 nm) combined with the highest spectral resolution (<1 nm). The elegant all-concentric design combines high spatial and

PoliSpectra M116 provides up to 32 channels in UV-NIR

The PoliSpectra ® M116 MultiTrack Fiber Spectrometer features a concentric optical design with UV extended spectral range (below 185 nm with

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185nm-1050nm, 1nm Spectrometer from Horiba

HORIBA has developed a high performance rugged hyperspectral imaging spectrometer with an integrated 2D scientific CMOS camera. The elegant all

PoliSpectra® M116 Provides Simultaneous Acquisition Breakthrough

The PoliSpectra® M116 MultiTrack Fiber Spectrometer features a concentric optical design with UV extended spectral range (below 185 nm with optional N2 purge) and a customized

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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Huijue Spectrometer Manufacturer

Huijue Spectrometer Manufacturer Huijue Group, founded in 2002, is a leading technology innovation company in the field of energy storage systems.

PoliSpectra Spectrometers

Excellent imaging, high spectral resolution and as low as 0.1% crosstalk. In sequential mode, PoliSpectra spectrometers can be configured with up to 96 channels. Do you have any questions or

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PoliSpectra M116 MultiTrack Spectrometer

Overview HORIBA designs and manufactures a large range of custom OEM fiber-coupled, multi-spectra spectrometers capable of simultaneous measurement of up to 32 fiber channels and sequential

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PoliSpectra

Utilizing a concentric imaging spectrometer with a broadband spectral range and a customized fiber bundle, the HORIBA OEM multifiber spectrometers provide excellent imaging quality with minimum

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Bruker Optics is part of Bruker Corporation (NASDAQ:BRKR) and is one of the world's leading providers of Fourier Transform Infrared, Near Infrared, and Raman spectrometers.

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PoliSpectra H116 P

PoliSpectra® H116 Spectrometers Imaging Spectrometer for Hyperspectral Applications

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LLA Instruments GmbH & Co. KG (LLA) has been developing and producing analytical measurement technology for imaging evaluation in processes for over 25 years. LLA's NIR spectrometers are used...

Hyperspectral imaging | Spectral imaging | Hyperspectral camera ...

Hyperspectral Imaging Spectrometer Applications HORIBA has developed a unique hyperspectral imaging spectrometer with an integrated scientific CMOS camera (12-16 bit) featuring HDR (95dB

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