

## Handheld probe for solids

## IR1000-F

### Features

- Spectral Range: 11500 - 4000  $\text{cm}^{-1}$  (800 - 2500nm)
- Spectral Resolution  $\leq 2 \text{ cm}^{-1}$
- Detector: High sensitivity InGaAs 2-stage TE-cooled
- Communication interface: Ethernet or adaptor to USB2.0
- Optical fiber terfac: SMA 905 connector

### Application

- pharmaceutical industry for the direct measurement of tablet/powder raw materials
- carry out spectral analysis of various solid samples through the packaging bag/glass bottle or direct hand contact

### Description

IR1000-F is a Reflection measurement for solid samples with Handheld reflection probe , equipped with a handheld solids probe and bracket, Spectral sampling of solid samples can be easily completed, and it is convenient to take and place. The probe is composed of hundreds of 200um fiber bundles, which are connected to the spectrometer through connector. Button on the probe is used for sampling control. This set configuration can be used in the pharmaceutical industry for the direct measurement of tablets/powder raw materials, spectra can be performed through packaging bags/glass bottles, etc. It can also be directly hand-held contact with a variety of solid samples for reflection measurement.



## Parameter

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Spectral Resolution	$\leq 2 \text{ cm}^{-1}$
Spectral Range	12500 - 4000 $\text{cm}^{-1}$ (800 - 2500nm)
Light Source	High Performance NIR light source
Detector	High sensitivity InGaAs 2-stage TE-cooled
Laser	Solid laser 10 year warranty
Beamsplitter	Exclusive NIR Beamsplitter
Wavenumber Precision	$\leq 0.02 \text{ cm}^{-1}$
Interferometer	High stability Cube corner interferometer
Software interface	Window 7/10
Operating temperature / humidity	5 to 35°C / non condensing
Storage temperature	-10 to 60°C
Communication interface	Ethernet or adaptor to USB2.0
Optical fiber input	SMA 905 connector