

## Integrating Sphere

## IR1000-S

### Features

- Spectral Range: 12500 - 4000  $\text{cm}^{-1}$  (800 - 2500nm)
- Spectral Resolution  $\leq 2 \text{ cm}^{-1}$
- High sensitivity InGaAs 2-stage TE-cooled Detector
- Inner gold-plated integrating sphere integrated for reliable measurements
- Auto rotated sample cups available in big and small size for uneven particles
- OEM and customized products and accessories are available

### Application

Analysis of solid products such as feed, dairy, food and textile

### Description

IR1000-S is a reliable solid diffuse reflection measurements with integrating sphere high with a full wavelength range. It is suitable for the analysis of solid products such as feed, dairy, food and textile and equipped with a Gold-plate integrating sphere.

It is specially designed to meet the needs of laboratories for measuring various forms of solid samples. The integrated structure makes installation and measurement very simple. The integrating sphere has a built-in gold-plated background, which can automatically subtract the background during measurement.



## Parameter

Items	Parameters
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	CaF <sub>2</sub>
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
Rotating sample cups	Sapphire