

Compact FT-NIR Spectrometer

IR1600-DF

Features

- Spectral Range 12500 - 4000 cm^{-1} (800 - 2500nm)
- Spectral Resolution $\leq 2 \text{ cm}^{-1}$
- High sensitivity InGaAs Detector
- Compact and mobile size with online probe at site
- Patent software for online monitoring

Application

- Chemical industry;
- Petrochemical industry;
- Pharmaceutical industry;
- Feed industry;
- Food industry;
- Textile industry

Description

IR1600-DF is a Compact FT-NIR spectrometer suitable for industrial use.

The spectrometer transmits and receives spectral signals through the SMA905 interface, and can be connected to up to two sets of various flow cells and probes and other sampling accessories to adapt to different application scenarios.

IR1600-DF has a wide range of uses and can be used with accessories such as online software and online probes for online inspection in processes in various industries.



Parameter

tems	Parameters
Spectral Resolution	$\leq 2 \text{ cm}^{-1}$
Spectral Range	12500 - 4000 cm^{-1} (800 - 2500nm)
Light Source	High Performance NIR light source
Transmission Precision	$< 0.1\%T$
Detector	High sensitivity InGaAs 2-stage TE-cooled
Laser	Solid laser 10 year warranty
Beamsplitter	Exclusive NIR Beamsplitter
Wavenumber Precision	$\leq 0.02 \text{ cm}^{-1}$
Signal to Noise	$\geq 40,000:1$
Photometric Accuracy	$\leq 0.1\%T$
Interferometer	High stability Cube corner interferometer
Software interface	Window 7/10
Operating temperature / humidity	5 to 35oC / non condensing
Storage temperature	-10 to 60oC
Power	220V $\pm 10\%$, 50-60Hz
Communication interface	Ethernet or adaptor to USB2.0
Optical fiber input	SMA 905 connector
Dimension	320X230X180mm