Online PAT	IR1000-pro

Features

- Spectral Range:11500 - 4000 cm-1(800 - 2500nm)
- Spectral Resolution ≤ 2 cm-1
- High sensitivity InGaAs 2-stage TE-cooled Detector
- Ethernet or USB2.0
- SMA 905 connector
- Easy to connect fiber coupling 8 multiplexer
- One button easy to operate for buiding modeling at site
- Online monitor multi compoennts

Application

- Chemical industry
- Petrochemical industry
- Feed industry
- Textile industry

Description

IR1000-Pro is a FT-NIR process spectrometer for reaction monitoring and control, specifically designed for industrial online application. The spectrometer, touch-screen industry computer, and PLC module for connecting to DCS are integrated in an integrated to cabinet to an online analysis system. The system offers convenience for industrial online control analysis by independently completing spectral data gathering, model prediction, and data uploading.

The integrated cabinet can be placed on the desktop, or fixed by a rail frame, and hung on the wall or any other convenient location.

Parameter

Items	Parameters
Spectral Resolution	≤ 2 cm^{-1}
Spectral Range	12500 - 4000 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$_2$
Wavenumber Precision	≤ 0.02 cm^{-1}
Interferometer	High stability Cube corner interferometer
Software interface	Window 7/10
Operating temperature / humidity	5 to 35oC / non condensing
Storage temperature	-10 to 60oC
Communication interface	Ethernet or adaptor to USB2.0
Optical fiber input	SMA 905 connector