OPTOSKY Spectroscopy Solutions

Datasheet

Transmission Module | IR1000-M

Features

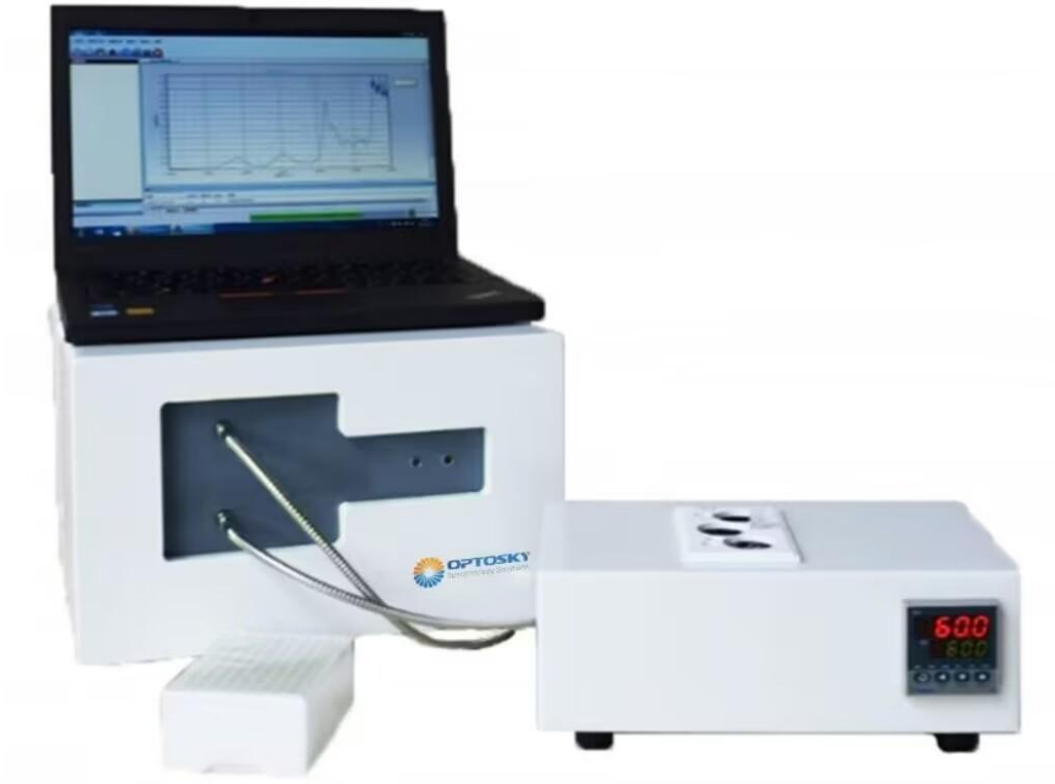
- Spectral Range:12500 - 4000 cm-1(800 - 2500nm)
- Spectral Resolution≤ 2 cm-1
- Detector:High sensitivity InGaAs 2-stage TE-cooled
- Optical fiber terfac:SMA 905 connector
- The heating module mix liquid sample well
- One button & fast scan within 1 minute
- Qualitative & Quantitative measure several built modeling components percentage at the same time

Application

hydroxyl value, saponification value, acid value, iodine value

Description

IR1000-M is a Liquid transmission measurement with the external temperature module heating up to 150 ° C, specially designed for routine liquid transmission analysis in laboratories. With S-Seq software, it can quickly analyze and detect liquid samples. The host also includes an external transmission temperature control module M-Cube, which is used for heating, temperature control and sampling of liquid samples. Liquid samples are added directly to the sample tube or cuvettes with different optical path lengths using a dropper. Samples that need to be heated and melted can also use the heating function of M-Cube. After the sample becomes a uniform liquid sample, the spectrum is collected.



1503 Bld. A04, 3rd Software Park, Jimei, Xiamen, 361005, China
Tel: +86-592-6102588

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 35°C / non condensing
Storage temperature	-10 to 60°C

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