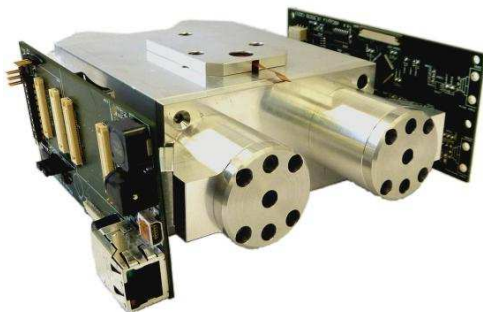


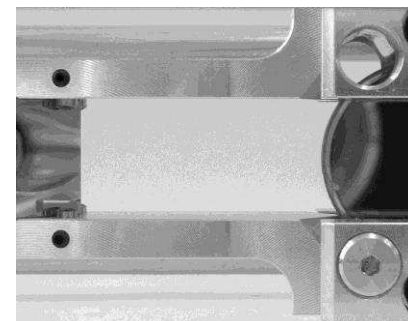
ARCspectro FTIR

AR@ptix
Switzerland

DATA SHEET



ARCspectro FTIR *OEM module*



The 3rd generation ARCSpectro FTIR module combines robustness with compact design. Thanks to its solid state reference laser and its sealed self compensated interferometer this new generation of FTIR requires minimal maintenance effort. High sensitivity of the spectrometer is guaranteed by the Peltier cooled MCT detector. These units have also an embedded microprocessor with built-in digital signal processor, running a stand-alone OS. Reliable computer interfacing is made via Ethernet using a TCP/IP protocol or USB.

The FTIR module can be integrated with the adequate measurement module such as ATR, transmission, reflection or white cell. A compact, robust and cost effective solution can be found for almost every application.

Typical characteristics of the FTIR series are :

- **Compact (world smallest FTIR)**
- **High resolution of 4 cm^{-1}**
- **Peltier-cooled MCT detector, $5000\text{--}830\text{cm}^{-1}$ (2 to $12\mu\text{m}$)**
- **Embedded DSP and Ethernet connectivity**
- **Cost-effective**

For additional information please contact:
info@taisl.com

FEATURES & BENEFITS

High performance interferometer

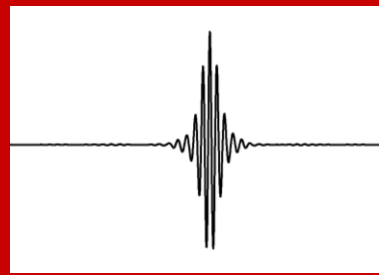
The ARCSpectro FTIR uses a compact yet high-performance, optically self-compensated interferometer.

Solid-state control laser

The use of a solid state reference laser allows our FTIR to be cost-effective, while maintaining excellent wavelength reproducibility.

Built-in DSP processor

the micro-processor with integrated DSP performs all required signal processing on-board (filtering, FT, averaging). Results can be transferred via Ethernet making the device compatible to any operating system.

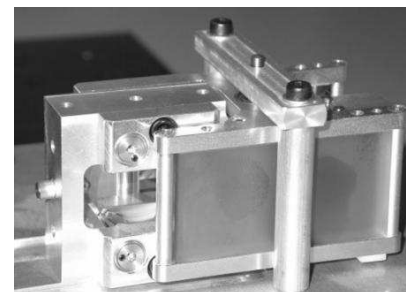


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Type of interferometer	Self-compensated multi-pass reciprocating interferometer
Spectral range	5000–830cm ⁻¹ (2–12 μm)
Detector	Photovoltaic MCT, 2TE
Resolution	4 cm ⁻¹
Single-scan peak SNR	>1000:1
Scan frequency	1 scans/s (interferogram averaging mode)
Control laser	Solid-state 850nm
Wave-number accuracy	<0.5cm ⁻¹ @ 2000cm ⁻¹ (25± 5 °C)
Operating temperature	10 - 40°C
IR source	Mini IR emitter 1150K
ADC resolution	24 bits
Power requirements	5 V / 3A
Communication interface	Ethernet, USB 2.0
Included software interfaces	Windows XP/Vista/7 software API for instrument control via TCP/IP
Weight	1200 g



OPTIONS

Temperature-stabilized control laser
for ultimate wave-number accuracy down to <0.1cm⁻¹

Integrated ATR module
an extremely compact attenuated total internal reflection module can be accommodated inside the FTIR module.

Advanced software
Software modules are available for:

- Library search module
- Infrared spectrum interpretation module
- Chemometrics module

Técnicas Asociadas de Instrumentación, S.L.
For more information about ARCOptix, visit www.taisl.com. Tel. +34 91 3555803

Specifications are subject to change without notice

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