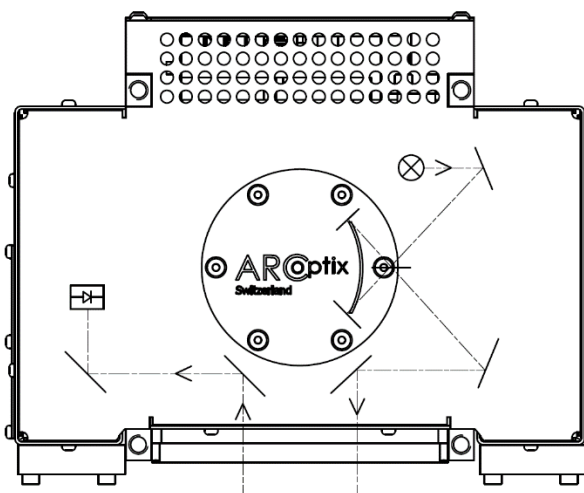


ARCOPTIX OEM010



The ARCOptix OEM010 is our most compact FT-IR complete system. It features a built-in SiC globar heated to 1550 °K and regulated in temperature to ensure stable illumination. The light that is being output by the instrument is first modulated by our permanently aligned interferometer, making it robust against stray light that might eventually reach the detector. The OEM010 rugged casing also holds a highly sensitive TE-MCT detector which maximizes the response of the system.



Optical routing in the ARCOPTIX OEM010

Features

- Internal light source
- Compact, rugged unit
- Custom I/O coupling modules on request
- Robust to ambient light perturbation
- Dynamically adjustable resolution:
 - 8cm^{-1}
 - 4cm^{-1}
 - 2cm^{-1}
 - 0.5cm^{-1} (on request)
- Wear free moving parts for extended lifetime
- No purging of the interferometer required
- Temperature controlled reference laser
- Ethernet interface with embedded processing available

Specifications

Product code	FTIR-OEM010-060-4TE	FTIR-OEM010-085-4TE	FTIR-OEM010-120-4TE	FTIR-OEM010-160-LN2
Beam-splitter material	CaF ₂		ZnSe	
Spectral Range [cm ⁻¹]	5'000-1'660	6'600-1'200	5'000-830	5'000-650
Spectral Range [μm]	2-6	1.5-8.5	2-12	2-16
Detector Type	MCT (4-TEC)			MCT (LN2)
Detector Peak D* [cm Hz ^{1/2} W ⁻¹]	>1x10 ¹¹	>8x10 ⁹	>4x10 ⁹	>5x10 ¹⁰
Signal-to-noise ratio	> 80'000:1 ⁱ	>40'000:1 ⁱ		>70'000:1 ⁱ
Output beam	Ø 12.7mm collimated (max ~30mrad half angle)			
Interferometer type	Permanently aligned, double retro-reflector design			
Resolution (unapodized) [cm ⁻¹]	0.5 ⁱⁱ , 2, 4, 8 (user selectable)			
Wavenumber repeatability	<10 PPM			
Scan frequency	>4 Hz @ 4cm ⁻¹			
Reference laser wavelength [nm]	850			
A/D Converter	24 bit			
Operating T [°C]	10 to 40			
Storage T [°C]	-20 to 60			
Built-in light source	SiC globar (1550°K)			
Power requirement	12V / 40W			
Communication Interface	USB 2.0 / Ethernet with embedded processing			
Software Interface	Windows 10/11, Linux API for controlling the instrument via our DLL Single board computer available on request			
Dimensions [mm]	165x145x82 (without dewar)			
Weight [g]	2100 (without dewar)			

ⁱInput to output direct light routing, 60s measurement, around peak sensitivity wavelength, 4cm⁻¹, Norton-Beer weak apodization.

ⁱⁱ Available on request only, please contact us at info@arcoptix.com for details
SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE.

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