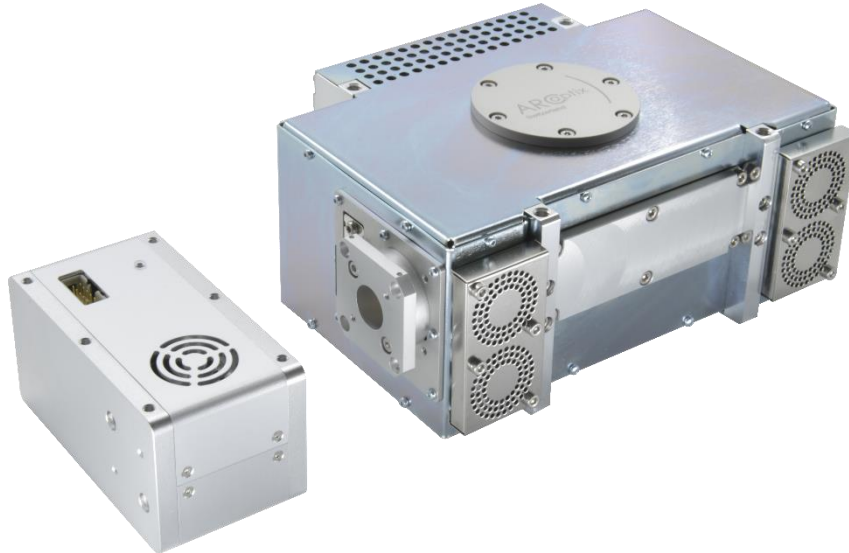
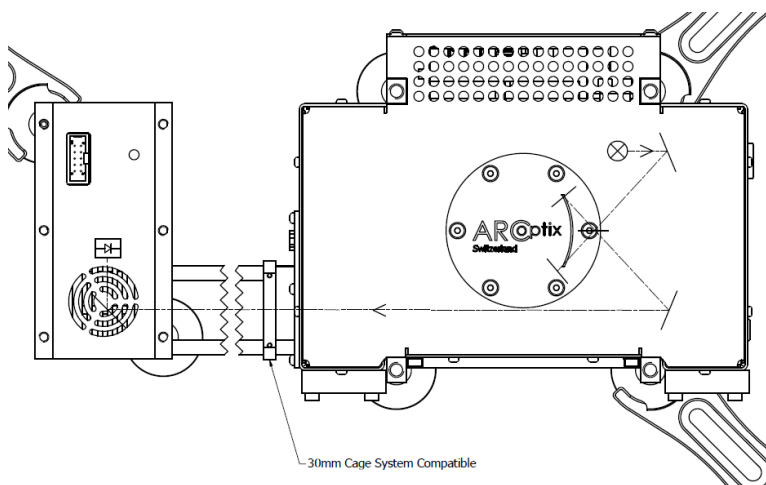


## ARCOPTIX OEM011



The ARCOptix OEM011 is a flexible alternative to our OEM010 series. The main module features a built-in light source (SiC globar) regulated in temperature as well as our permanently aligned interferometer system. The TE-MCT detector has been moved to an external module which is ideal for configurations requiring a sampling system (short path gas cell, purged volume, etc.). Both modules are easily fixed on optical breadboards and can accommodate 30 mm cage system rods for rapid prototyping.



*Optical routing in the ARCOPTIX OEM011*

### Features

- Internal light source
- Compact, rugged unit
- External detector module
- Robust to ambient light perturbation
- Dynamically adjustable resolution:
  - $16\text{cm}^{-1}$
  - $8\text{cm}^{-1}$
  - $4\text{cm}^{-1}$
  - $2\text{cm}^{-1}$
  - $0.5\text{cm}^{-1}$  (on request)
- Wear free moving parts for extended lifetime
- Compatible with 30 mm cage system rods
- Temperature controlled reference laser

## Specifications

Product code	FTIR-OEM011-060-4TE	FTIR-OEM011-085-4TE	FTIR-OEM011-120-4TE	FTIR-OEM011-160-LN2
Beam-splitter material	CaF <sub>2</sub>		ZnSe	
Spectral Range [cm <sup>-1</sup> ]	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 <sup>1/2</sup> W <sup>-1</sup> ]	>1x10 <sup>11</sup>	>8x10 <sup>9</sup>	>4x10 <sup>9</sup>	>5x10 <sup>10</sup>
Signal-to-noise ratio	> 80'000:1 <sup>i</sup>	>40'000:1 <sup>i</sup>		>70'000:1 <sup>i</sup>
Output beam	Ø 12.7mm collimated (max ~30mrad half angle)			
Interferometer type	Permanently aligned, double retro-reflector design			
Resolution (unapodized) [cm <sup>-1</sup> ]	0.5 <sup>ii</sup> , 2, 4, 8 (user selectable)			
Wavenumber repeatability	<10 PPM			
Scan frequency	>4 Hz @ 4cm <sup>-1</sup>			
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 / 30W (interferometer), 12V / 10W (detector module)			
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 (interferometer), 93x75x66 (detector module, without dewar)			
Weight [g]	2100 (interferometer), 400 (detector module, without dewar)			

<sup>i</sup> Input to output direct light routing, 60s measurement, around peak sensitivity wavelength, 4cm<sup>-1</sup>, Norton-Beer weak apodization.

<sup>ii</sup> Available on request only, please contact us at [info@arcoptix.com](mailto:info@arcoptix.com) for details

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE.

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