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ARCOPTIX ARCSPHERE-MIR

The ARCoptix ARCSPHERE-MIR is an integrating sphere featuring an internal SiC globar for diffuse reflection measurements in the MIR. Light emitted by the source is prevented from illuminating the sample directly by the presence of a deflector (baffler). The highly reflective gold coated sphere has a diameter of 50mm and a sample port of 10mm with a BaF_2 window. The output of the sphere is directly injected in one of our FTIR, such as the **FTMIR-L1-120-4TE**, maximizing throughput. The internal volume of the sphere is cleaned by a desiccant capsule allowing to reduce significantly the contribution from water vapor and CO_2 on the measurement.

Specifications

Product code	ARCSPHERE-MIR
Sphere internal diameter [mm]	50
Sample port diameter [mm]	10
Sample port window material	BaF_2
Output port diameter [mm]	12.7
Light emitting element	SiC globar
Source temperature [K]	~1’550
Rated life-time [hours]	10’000
Power consumption (7-12 VDC) [W]	30
External dimensions [mm]	93x93x130
Weight [g]	1300

SPECIFICATIONS ARE SUBJECT TO CHANGES WITHOUT NOTICE
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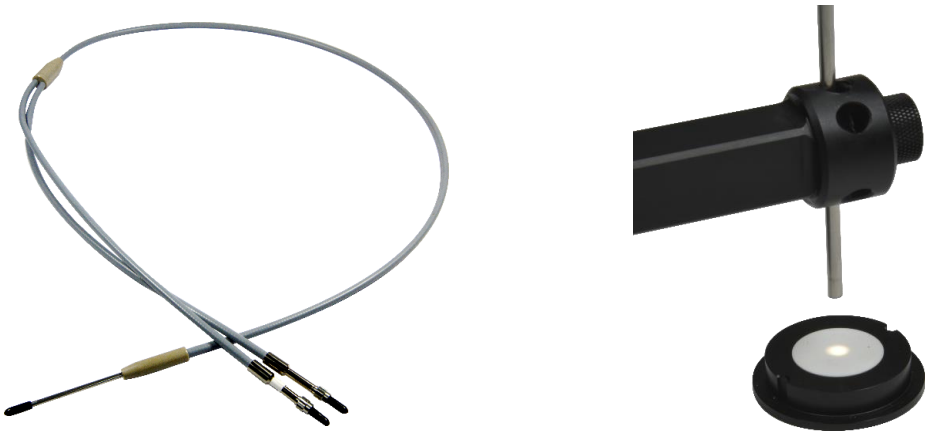
FIBERED REFLECTION PROBES



Fibered reflection probes are common accessories to measure specular or diffuse reflection in FT-IR systems. They are especially well suited for applications requiring a lot of flexibility. We offer fibered probes of three different kinds, depending on the fiber constituting glass, each targeting a specific spectral range. Light is brought to the sample via a peripheral fiber bundle which helps in achieving homogeneous illumination, and is collected by single, central fiber.

Specifications

Product code	R7-NIR-600-200F	R2-IFG-500-150F	R7-PIR-900-150F
Spectral range [µm]	0.4-2.5	2-5.5	4-16
Spectra range [cm^{-1}]	4'000-25'000	1'800-5'000	650-2'500
Illuminating fiber bundle	6x low-OH, 600 µm core diameter silica fibers	2x 500 µm core diameter IFG fibers	7x 400 µm core diameter PIR fibers
Reading fiber	low-OH, 600 µm core diameter silica fiber	500 µm core diameter IFG fiber	900 µm core diameter PIR fiber
Probe ferrule	Stainless steel ferrule ø⅛''(3.175mm x 74mm)	Stainless steel ferrule ø¼''(6.35mm x 74mm)	Stainless steel ferrule ø¼''(6.35mm x 74mm)
Length [m]	2	1.5	
Fiber connectors	SMA905		
Recommended Instrument	FTNIR-L1-025-2TE	FTMIR-L1-060-4TE	FTMIR-L1-160-LN2

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