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COLLIMATOR ACCESSORY

- Designed for 2.0 - 5.0 µm Bandwidth
- Collimation Lens Material CaF_2
- Collimated Beam Size up to 11 mm
- SMA-905 Fiber Connector

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THE TECHNOLOGY

ACCESSORY | COLLIMATOR

The COLLIMATOR is a simple, cost-effective, and efficient tool for coupling collimated light into a fiber.

It features a 20 mm CaF_2 lens, optimized for operation in the 2.0 – 5.0 µm wavelength range.

Additionally, the COLLIMATOR can be used in reverse to collimate light emitted from a fiber, making it a versatile optical component for various mid-infrared applications ■

DETAILS

COLLIMATOR Accessory for coupling mid-infrared light into a fiber efficiently.

Two COLLIMATOR Accessories facing each other with a sample between them.

COLLIMATOR Accessory	
Optical Bandwidth	2.0 – 5.0 µm
Collimation Lens Material	CaF_2
Collimated Beam Size[1]	up to 11 mm
Optical Connector	SMA-905 Fiber Connector
Maximum NA Supported	0.3
Measurements (L × W × H)	30 mm × 25 mm × 25 mm
Weight	46 g

[1] Depends on fiber NA

Looking to collect light from a point instead of collimated light? Have a look at the NLIR **SAMPLER Accessory.**

SEE SAMPLER ACCESSORY

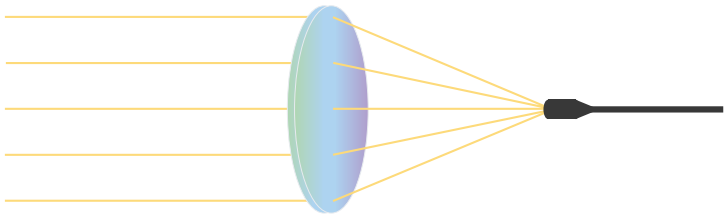
WORKING PRINCIPLE AND TECH DRAWINGS

COLLIMATER VS. SAMPLER

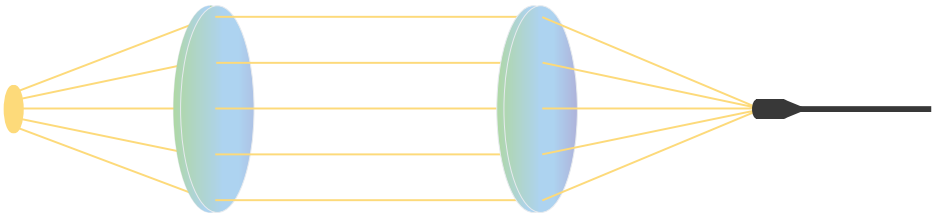
NLIR's COLLIMATOR Accessory is designed to couple collimated light in the 2.0 – 5.0 µm mid-infrared range into a fiber. Meantime, NLIR's SAMPLER Accessory is designed for efficient light collection from a point into a fiber in the 2.0 – 5.0 µm mid-infrared range.

The COLLIMATOR uses a single CaF_2 lens to focus incoming light into a fiber or, equivalently, collimate light emitted from a fiber.

The figure shows the difference in working mechanism between the COLLIMATOR and the SAMPLER.



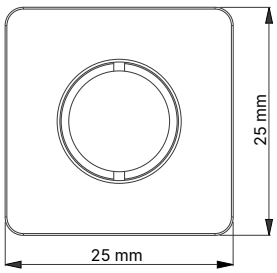
Working principle of the COLLIMATOR Accessory.



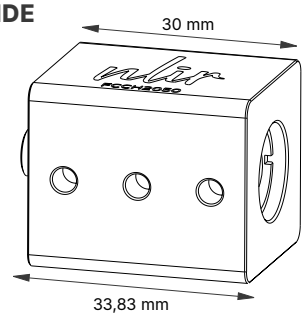
Working principle of the SAMPLER Accessory.

TECH DRAWINGS

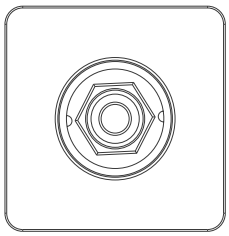
FRONT



SIDE



BACK



DESCRIPTION

The drawings provide detailed dimensions and an overwiev of NLIR's COLLIMATOR Accessory design.

NLIR's COLLIMATOR Accessory is designed for easy mounting with threaded M3 holes on one side.

Note that all measurements are in mm ■