Collimating lens

Collimating lenses

To convert divergent beams of light into a parallel beam, a collimating lens is needed. Avantes collimating lenses are optimized for the UV/VIS/NIR range (200-2500 nm) and have anodized aluminum housings.

The COL-UV/VIS and COL-90-UV/VIS have a 6 mm diameter lens with a confocal length of 8.7 mm. The COL-90-UV/VIS is used when a 90-degree exit angle is needed. The focal point for the COL-UV/VIS and COL-90-UV/VIS can be adjusted. The COL-UV/VIS can also be ordered with an FC/PC connector.

The COL-UV/VIS-25 is the big brother of the COL-UV/VIS. It has a lens diameter of 25 mm and a confocal length of 50 mm. This larger collimating lens is suitable for collection of light in free space.

COL-UV/VIS

COL-90-UV/VIS

Technical Data

	COL-UV/VIS	COL-90-UV/VIS	COL-UV/VIS-25
Lens Diameter	6 mm		25 mm
Lens confocal length	8.7 mm		50 mm
Lens Material	UV grade Fused Silica		
Wavelength range	200-2500 nm		
Fiber connection	SMA-905, UNS 1/4" (standard, FC/PC also possible)		
Mirror reflectivity	n.a.	>90% (200-1100 nm)	n.a.
Housing Material	Aluminum black anodized		
Thread	UNF 3/8"-24	n.a.	
Temperature range	-30ºC to 100ºC (-HT version 200ºC)		

Ordering Information

COL-UV/VIS	• Collimating lens for UV/VIS/NIR, incl. SMA adapter and adj. focus
COL-UV/VIS-FCPC	• Collimating lens for UV/VIS/NIR, incl. FC/PC adapter, adj. focus
COL-90-UV/VIS	• Collimating lens under 90 degrees for UV/VIS/NIR, incl. SMA adapter
COL-UV/VIS-25	• Collimating lens 25 mm for UV/VIS/NIR, incl. SMA adapter and adj. focus

A collimating lens can be used to collect more light into a fiber cable