

COSINE CORRECTOR

FIBER OPTICS

Operation and Installation Manual



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1. Cosine Corrector Operating Manual

1.1 Parts included

1. Cosine Corrector CC-UV/VIS, CC-VIS/NIR, CC-UV/VIS/NIR-5.0 or CC-UV/VIS/NIR-8MM
2. The Cosine corrector Operating manual

The cosine correctors are spectro radiometric sampling optics, designed to collect radiation (light) over 180°, thus eliminating optical interface problems associated with the light collection sampling geometry inherent to other sampling devices.

The CC-UV/VIS cosine corrector has teflon diffusing material and is optimized for applications from 200-800 nm. For the UV/VIS/NIR range (200-2500nm) a Radin material is available in the CC-VIS/NIR. Both cosine correctors screws onto the end of any SMA-terminated optical fiber. When coupled to a miniature fiber optic spectrometer, these cosine correctors can be used to measure UV-A and UV-B solar radiation, environmental light, lamps and other emission sources.

The Cosine Correctors have a 6.5 mm O.D. barrel with a smooth yet rugged black oxyde finish. The diffusing material is a thin disk that fits at the end of the barrel. The cosine corrector has an SMA 905 connector for convenient coupling to optical fibers.

1.2 Technical specifications

	CC-UV/VIS	CC-VIS/NIR
Diffusing material	Teflon (200-800nm), ca 1 mm thick	Radin Quartz (350-2500 nm), ca. 1.5mm thick
Barrel dimension	6. 5 mm O.D.	
Sampling geometry	accepts light at/from 180° FOV	
Connector	SMA 905	

Drawing CC-UV/VIS

