








We offer a range of entrance optics to measure the spectral irradiance. Optics with near perfect match to the cosine response error for isotropic radiation (DIN 5032) and high throughput are available for use with fibre bundles and SMA adaptor.

## Weatherproof optics

OrderNb.	Name	Description	Dimension	
100201 100214 100227	J1002 J1002-SMA J1002-SMA-SHUT	Weatherproof global entrance optic UV-NIR (200–1700nm). Cosine error <2 % (UV-VIS) for incidence angles between 0° and 70°. Version for thick fibre bundle (QASUME,...) Versions with SMA connector and internal shutter, which allows blocking the light.	D=58/L=87 D=58/L=58	
102605 102610	J1026-50-WP J1026-50-WP-SHUT	Weatherproof entrance optic for use in UV-IR Wavelength range (200 nm -2500 nm). Integrating sphere with sintered PTFE coating and baffled output. SMA light guide may be directly connected.	D=68/L=68	
101501	UV-J1015	Entrance optic for Brewer spectrophotometer. The cosine error is less than 6 % for incidence angles between 0° and 80°. Systematic uncertainties of global solar irradiance measurements with this optic are considerably reduced compared with measurements with the traditional diffuser.	D=32/ L=110	
100401 100103 100104	J1004 J1004-SMA J1004-SMA-SHUT	Entrance optic to study the direct radiation of the sun or radiance of the sky in the UV-IR Wavelength range (200 nm -2500 nm). For use with a light guide. FOV~ 2°.	D=38/44 L=215	

## Laboratory grade optics

OrderNb.	Name	Description	Dimension	
100234	D3-SMA-SQ	The D3 diffusers are in line devices, for use over the spectral range 200 nm -1100nm. Poor cosine response.	D=6/L=20	
100230	J1002-SMA-LAB	The diffuser are in line devices, for use over the spectral range 200-1700nm. The cosine response error is typically less than 3 %.	D=34/L=47	
102604 102609	J1026-50 J1026-50-SHUT	Integrating sphere for radiometric measurements. Sintered PTFE coating. Wavelength range from 200 nm-2500 nm. Output baffled.	D=68/L=58	
	-SMA ... SMA connector -SHUT ... Shutter with electronic control -H ... Horizontal alignment -SQ ... Synthetic quartz		Dimension in [mm], otherwise stated	