

# Cosine Receptors for SpectroRadiometry



- **CR2** is a 1/4" diameter UV-NIR cosine receptor using a polymer diffuser for 200-1700nm & 180° FOV.
- **CR2-AP** is a 10% aperture for the CR2 that extends the system dynamic range by an order of magnitude, thus enabling spectral measurements of sources that are 10 times brighter without the need for re-calibration using a brighter calibration lamp.
- **CR2-RA** is a 90° right-angle Cosine Receptor cube.
- **CR2-TP** miniature tripods for the CR2.
- **CR-LENS** is a cosine receptor lens assembly that reduces the field of view from 180 degrees to a small spot. Adjustable focus allows variable distance from target surface such as OLED displays.

- **Cosine Receptors** collect light with an 180° field of view using demountable diffusers with ~10% loss. A perfect cosine response provides accurate absolute intensity when multiple lights are measured at the same time.
- **Fiber-Less** adapter eliminates the need for fiber optics by enabling cosine receptors to be connected directly to the spectrometer using the SMA-Coupler.
- **Irradiance Calibrations** are performed using NIST traceable light sources for over the selectable 200-1700nm range.
- **Applications** include laser & light source characterization and varieties of UV light emission, LED color and spectral intensity, solar irradiance measurements, and a variety of light measurements in the field, including underwater applications



## SpectroRadiometry Accessories

Item	Description	Price
CR2	Cosine Receptor, UV-Vis-NIR	\$180
CR2-AP	Aperture for CR2, screw on attachment	\$165
CR2-RA	Cosine Receptor at 90° right angle	\$375
CR-LENS	Focus measurement to small spots on displays	\$250
CR2-TP	Tripod for CR2	\$65

Specifications		
	CR2	CR2-RA
Wavelength	200-1700 nm	300-1700nm
Diameter	1/4"	1/4"
Field of View	180°	180°