

Photobiological safety

EN 62471 Measurements in the range of 230 ... 1000 nm



specbos 1211-UV-2 can be equipped with accessories for measurements of all photobiological measurements in the wavelength range of 230 ... 1000 nm, defined by EN 62471.

Highlights:

- Measurement of all 8 hazard categories
- Configuration for Radiance as well as Irradiance based quantities
- Special calculation window in software JETI LiVal for values, risk group classification and maximum exposure time
- NIST traceable calibration
- Included neutral density filters for extreme intensities

Examples for applications:

- Spotlights (LED and discharge lamp based)
- UV illumination of production facilities
- Illumination of machine vision and image processing
- Industries with high temperature processes (steel, glass)

Specifications

Measuring categories

Radiance based:	Blue light hazard
	Retinal thermal
Irradiance based:	Retinal thermal (weak visual stimulus)
	Blue light hazard (small source)
	Activic UV skin & eye
	Eye-UVA
	Eye-IR
	Skin thermal

Available accessories

Measuring mode	Hazard category	Accessory name	Part number
Radiance	Blue Light Hazard	Beam shaping optics for 100 mrad and for 11 mrad with internal attenuation and additional external OD1 and OD2 filters	ACC 024
		Beam shaping optics for 100 mrad with internal attenuation and additional external UVOD1.0 and UVOD2.0 filters	ACC 024/100
		Aperture tube for 1.7 mrad, measurements only in combination with ACC 026 and in a fixed distance of 200 mm	ACC 054
	Retina thermal	Beam shaping optics for 11 mrad with internal OD2 filter and additional external OD1 and OD2 filters	Included in ACC 024 or separately as ACC 024/11
	Blue Light Hazard, Retina thermal	Mechanical elements for turning/ tilting the device to find the maximum emission of the source	ACC 025
Irradiance	Eye UVA, Actinic UV, Eye IR, Skin thermal, Blue light small source	Diffusor for Irradiance measurement, spot size Ø8 mm	ACC 026
	Eye UVA, Actinic UV, Eye IR, Skin thermal	80° aperture for Diffusor ACC 026	ACC 027