Photobiological safety measurements according to the IEC 62471 standard with JETI specbos 2501-UV and hazard accessories

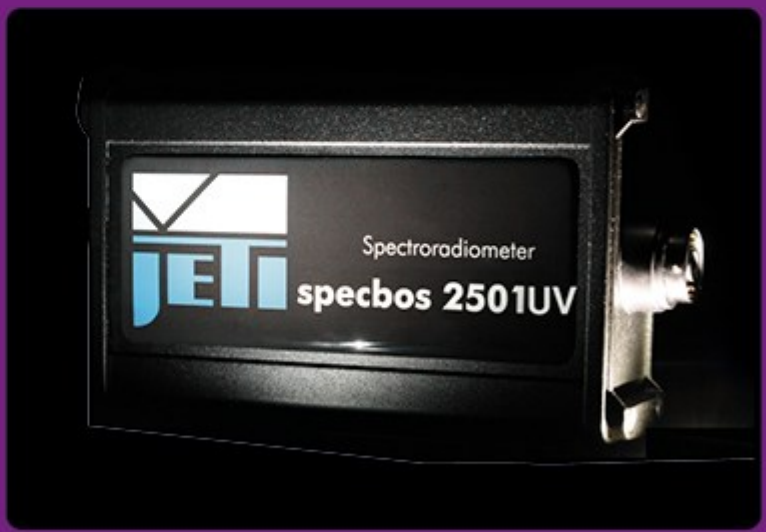



Fields of applications




JETI
specbos 2501-UV

200 ... 1050 nm

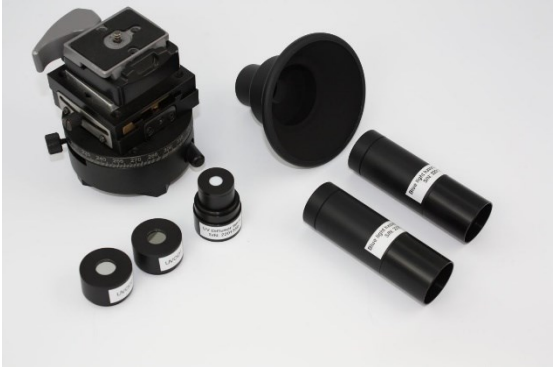


Made for professionals

www.jeti.com
or ask your local dealer

Accessories for the different hazard categories

The JETI spectroradiometer specbos 2501-UV can be equipped with accessories for measurements of all photobiological measurements in the wavelength range from 200 nm to 1050 nm, defined by IEC 62471. These accessories have been completely developed according to IEC 62471. All 8 categories of hazardous effects defined in EN 62 471 and ANSI/ IESNA RP-27 can be measured with the system, the only restriction is the measuring range of 200 nm to 1050 nm.



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 UVOD1.0 and UVOD2.0 filters	ACC 080
Radiance	Blue Light Hazard	Beam shaping optics for 100 mrad with internal attenuation and additional external UVOD1.0 and UVOD2.0 filters	ACC 080/100
Radiance	Blue Light Hazard	Aperture tube for 1.7 mrad, measurements only in combination with ACC 081 and in a fixed distance of 200 mm	ACC 054
Radiance	Retina thermal	Beam shaping optics for 11 mrad with internal OD2 filter and additional external OD1 and OD2 filters	ACC 080/11
Radiance	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 081
Irradiance	Eye UVA, Actinic UV, Eye IR, Skin thermal	80° aperture for Diffusor ACC 081	ACC 027
		Additional filter cap for ACC 080, OD or bandpass type	ACC 029UV ODx.x
		Adapter UG11	ACC 082 UG11

Please note:
It is recommended in the IEC 62471 standard to proceed photobiological measurements with a double monochromator based system. A spectroradiometer with an array spectrometer as specbos 2501-UV can be used only if its applicability is proved! Due to the specifics of photobiological measurements it is recommended to discuss the application with JETI to find the best solution.