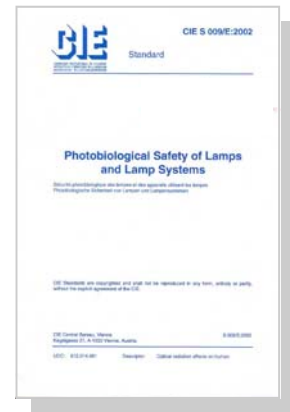
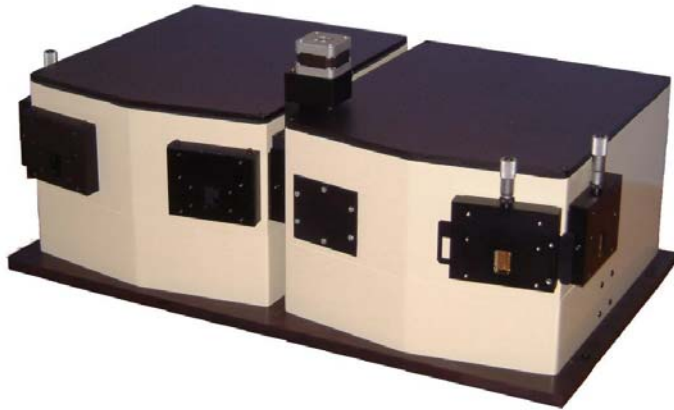
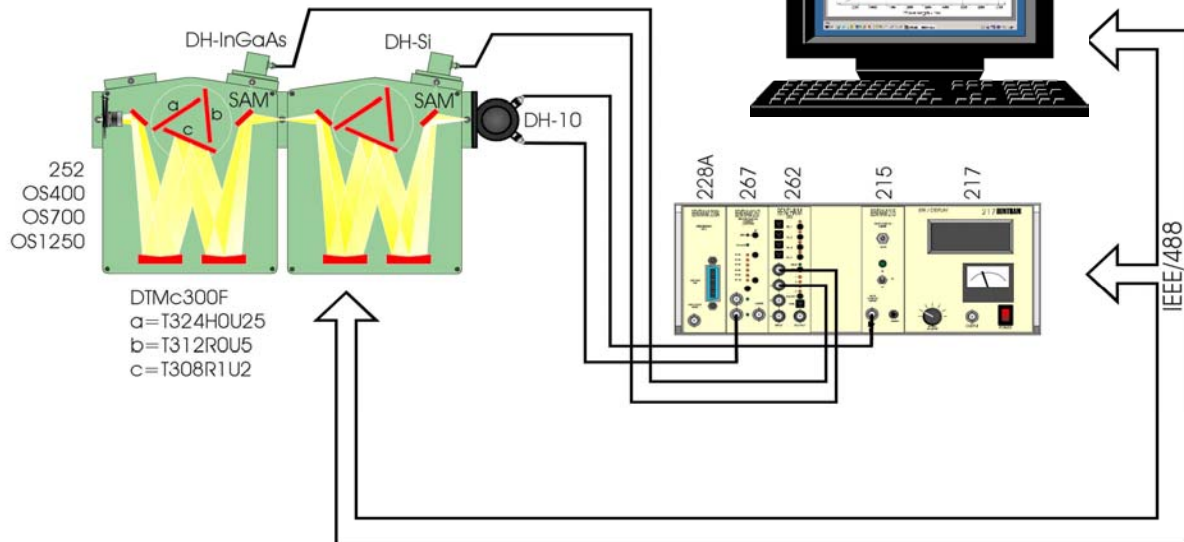


Photobiological Safety of Lamps CIE S 009



Spectroradiometer, fully automated 200-3000nm



Bentham produces a fully automated, double monochromator based spectroradiometer system for the hazard classification of lamps in accordance with CIE S 009/E:2002 Photobiological Safety of Lamps and Lamp Systems. Such systems require high spectral resolution over a wide wavelength range (200nm to 3000nm) and must have excellent stray light rejection. Bentham offers a very high precision cosine response diffuser (f_2 error <1%) or integrating spheres for spectral irradiance measurements and a variable aperture telescope for radiance measurements. Exposure limits are determined by software.

Skin or cornea hazard		
Actinic UV skin & eye	E_S	200-400nm
Eye UV-A	E_{UVA}	315-400nm
Blue light small source	E_B	300-700nm
Eye IR	E_{IR}	780-3000nm
Skin thermal	E_H	380-3000nm

Retina hazard		
Blue light	L_B	300-700nm
Retinal thermal	L_R	380-1400nm
Retinal thermal (weak)	L_{IR}	780-1400nm