

## UV dose controller UV-MAT



dose controller UV-MAT

The dose controller UV-MAT continuously measures irradiances, calculates doses, and stops irradiation at the set target dose. Two spectral ranges can be separately controlled. Thus, UV-MAT ensures a constant dose independent from lamp aging, temperature, and pollution.

The measurements are made with calibrated radiometric sensors. The built-in diffusers ensure the cosine correction that is required for non-vertical irradiation.

The sensors are calibrated with traceability to PTB (Physikalisch Technische Bundesanstalt, the German national test authority); after being calibrated, they are supplied with a factory calibration certificate. Excellent long-term stability is achieved through the use of appropriate materials. Of course, a repair and spare parts service is available for many years.

Eight spectral ranges for sensors are available to optimally adapt irradiation to the application. Sensors to evaluate the biological effects of irradiation are also available.

The UV-MAT can optionally be controlled by a PC. This allows multi-stage irradiation and documentation of the irradiation.

## HIGHLIGHTS

- Optional for all irradiation chambers
- Controls two spectral ranges
- Precise radiometric sensors
- Built-in sensor identification
- Security functions to avoid doubled irradiation and password protections for important settings
- Integrated timer
- Function to calculate irradiance at sample position from sensor position data

## SPECTRAL RANGES

UVC	200 - 280 nm
UVB	280 - 315 nm
UVA	315 - 400 nm
UVA+	330 - 455 nm
UVBB (broad-band)	230 - 400 nm
VISB	400 - 480 nm
VISBG	400 - 570 nm
LUX	380 - 780 nm, V(λ)

## TECHNICAL DATA

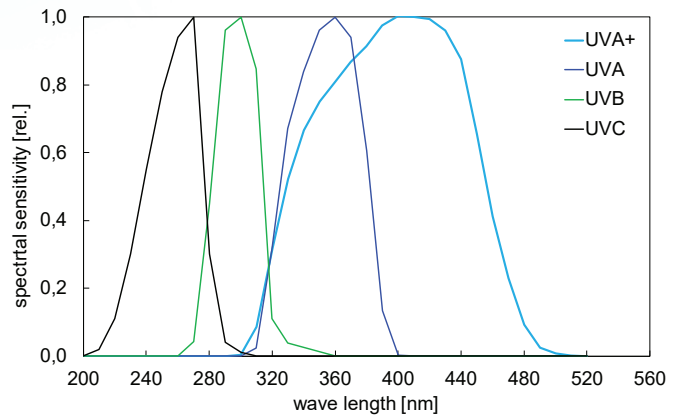
Measuring range	0-200 mW/cm <sup>2</sup>
Resolution	24 bit
Sensors	1 or 2 at the same time
Sensor identification	yes
Spectral ranges	UVC, UVB, UVA, UVA+, VISB, VISBG or LUX
Dimensions	185 mm x 251 mm x 100 mm
Operation temperature	0 - 40 °C
Mains	230 V, 50 Hz,
Relay contacts	2 x 230V, 1A
External warning	clamp contact

## SCOPE OF DELIVERY

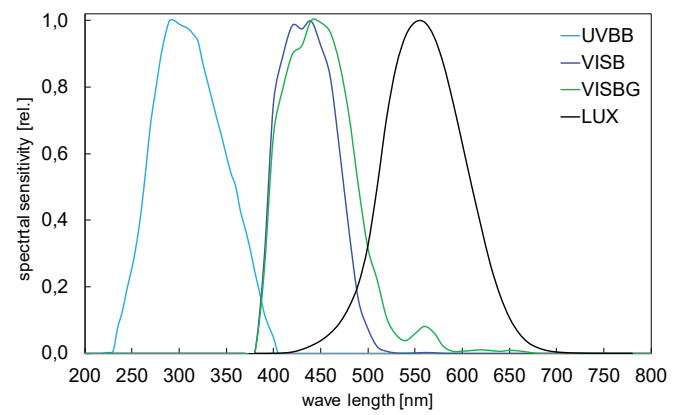
UV-MAT, cable, manual

## PART NUMBERS

UV-MAT	820920
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Spectral sensitivity UVA+, UVA, UVB and UVC sensors



Spectral sensitivity UVBB, VISB, VISBG and VISL sensors