Dr. Gröbel
UV-Elektronik GmbH
we apply photonics.

UV-Point Source HP-120

Fig. 1: UV point source HP-120

The UV point source HP-120 is a reliable and economic „cold" radiation source for the illumination of small spots with highly intense UV-A radiation and blue light. The heat transfer to the material is minimized by the absence of effectless red and near infrared radiation. The point source uses light guides in different configurations for the flexible irradiation of one or more spots. The typical lamp lifetime is 2,500 hours. UV-A irradiances up to 15.000 mW/cm^2 are achieved depending on the light guide configuration. The lamp power is stabilized in order to achieve constant irradiation.
The irradiation time can be selected with a digital timer with 0.1 s resolution. The shutter can also be controlled by a foot switch or by a PLC system controller. Further signals for a system controller are optionally available. We recommend using the radiometer RM-12 with appropriate sensors for a calibration of the irradiance. Our sensors are calibrated against a PTB (Physikalisch-Technische Bundesanstalt) reference.

Applications

- UV curing, bonding and sealing
- Irradiation of biological, pharmaceutical and medical samples
- Materials testing
- Fluorescence excitation
- Trace detection

Technical Data

UV-A power:	> 4 W*
UV/VIS-power:	about 8 W*
Wavelength:	300 to 600 nm (95%)
Light guide:	Ø 5 or 8 mm
Lamp lifetime:	typical 2,500 hours
Dimensions:	364 x 147 x 391 mm
Weight:	about 8.20 kg
Operation temp.:	10 to 40 °C
Humidity:	< 80% Non-condensing
Mains supply:	110 - 230 VAC, 10 A
Mains frequency:	50/60 Hz

Power consumption: 200 W
* At shipment with 1 m light guide Ø 8 mm

Part number

UV point source HP-120 (Including 1 m light guide Ø 8 mm)	860 514

Options / Accessories:

- Other lengths and diameter of light guide
- Multiple light guides
- Collimator for larger distances between light guide and irradiated sample
- PLC interface
- Radiometer RM12
- Radiometer sensors UV-A and VISB

Warning
UV radiation can be harmful. Please use proper protection measures.

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