

# LPL-01

## UV Hand Lamp with timer function



### General Features



#### Properties of the LPL-01

- UV radiation source with one or two low pressure lamps (UVA, UVB or UVC)
- High UV transparent UG11 window glass for high UVA and UVB radiation emission
- No emission of visible light (UVA, UVB-type)
- Rugged mechanical timer
- Applications: irradiation of biological and pharmaceutical samples, material inspection, fluorescence excitation, forensic and contamination analysis

The lamp is available with an individual traceable calibration. The consigned certificate provides information about the spectral output data and the correlation between irradiance and distance to the lamp. Please ask for this calibration service.

**Attention: UV radiation can be harmful. Always protect eyes and skin.**

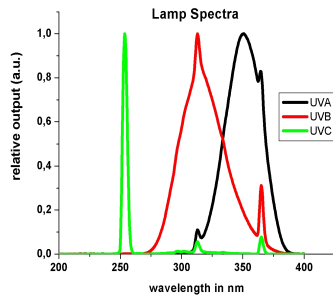
### Specifications

Parameter	Symbol	Value	Unit
Supply voltage	$V_{supply}$	110/240	VAC
Electrical power	$P$	(2x) 8	W
Dimensions	$D$	375x68x75	mm <sup>3</sup>
Weight	$m$	1600	g
Cable length		2	m
Irradiating area	$A$	195x40	mm <sup>2</sup>
Peak wavelength of available lamps UVA; used bulb: F8T5/BLB UVB; used bulb: G8T5E UVC; used bulb: G8T5	$\lambda$	365; 315; 254	nm
Minimum timer setting	-	1	min
Maximum timer setting	-	60	min
Approx. UV intensity at 5cm distance (one lamp)	$I$	2	mW/cm <sup>2</sup>

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### General Information



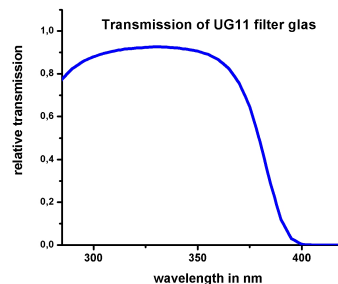
- UV Hand lamp can be configured with one or two low pressure lamps. Please define with your order.
- Spectral emission of the lamp can be selected between UVA, UVB and UVC.
- Different UV lamps in one housing are possible.
- Both lamps can be switched separately.
- Two identical lamps can be used to increase the maximum UV intensity.
- The lamp has a robust powder-coated housing.

### Mechanical Timer



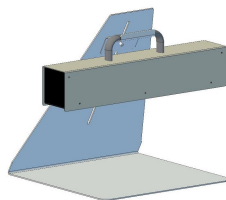
- This feature allows a comfortable work, where a defined irradiation time (or a related UV dose) is to be applied.
- The timer can be set for continuous operation (left position).
- The irradiation time can be set between 1 and 60 minutes.

### Window Glass in UVA and UVB lamps



- Almost 100% UVA and UVB transmission allows high radiation output. The picture shows the relative transmission of the used UG11 window glass in %, depending on the wavelength.
- No visible light transmission optimizes fluorescence analysis. There, a material emits visible light when exposed to UV radiation. Visible light emission by the lamp would reduce the fluorescence effect.

### Upgrade - Lamp Fixture for easy mounting of the LPL-01



- The solid fixture enables easy lamp mounting.
- The fixture is height adjustable for varying the irradiation level (and irradiated area).
- A scale allows reproducible height positioning.
- Order number: LPL-01-Stand