Opsytec Dr. Gröbel

Hand-held UV lamps

UV hand-held lamps

The handheld UV lamps are high-powered UV radiation sources for UV-A and UV-C radiation. They enable the sensitive detection of luminescent substances through their high irradiance.

The handheld UV lamps are available in three versions. UV-A and UV-C lamps are equipped with two UV lamps to obtain a very high intensity of irradiation on the sample. The UV-A/C handheld lamp allows the simultaneous or separate application of UV-A and UV-C radiation with the same device.

All handheld UV lamps are mains operated and have VIS filters, which effectively filter the visible light from the tubes. Thus, even weak luminescence in the sample can be optimally detected.

We recommend our additional stand to create a table lamp and have both hands free for testing.

HIGHLIGHTS

- Irradiance of ~ 500 µW/cm² in a distance of 10 cm
- Filters for visible light from the tubes
- Weak luminescence can be detected
- Long lifetime
- Optional: Switchable UVA and UVC emission

APPLICATIONS

- Verification of documents and bank notes
- Irradiation of biological, pharmaceutical, and medical samples
- Materials testing, leak detection
- Detection of impurities
- Fluorescence excitation
- Trace detection

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certified according
DIN EN ISO 9001:2008

TECHNICAL DATA

Wavelength	254 nm or 365 nm
Max. irradiance	500 µW/cm² in
	distance of 10 cm
Irradiated area	2, each is 148 x 23 mm
VIS filter	2
Lamp power	2 x 6 W
Dimensions	280 x 86 x 65 mm
Weight	~1400 g
Mains	230 V_{AC} / 50 Hz
Classification	risk group 3 according
	DIN EN 62471:2009-03
Operating temperature	5 to 40 °C
Storage temperature	-10 to 60 °C
Humidity	< 80%, non-condensing

PART NUMBERS

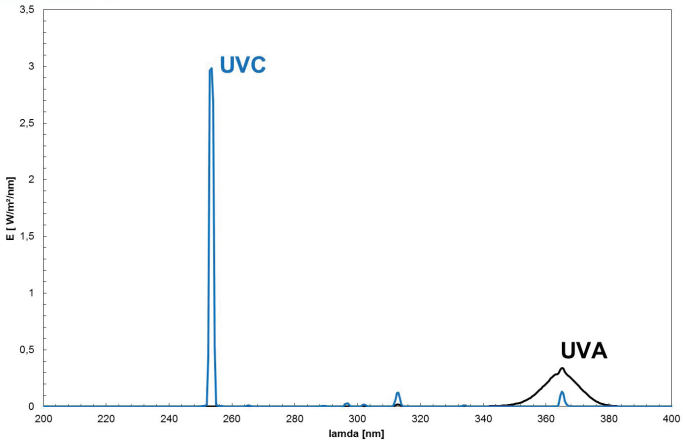
UV-A/C hand-held lamp	862506
UV-A hand-held lamp 365nm	862507
UV-C hand-held lamp 254nm	862508
Table tripod	962500
UV safety goggles	918800
Spare lamp UV-A	862540A
Spare lamp UV-C	862540C

SCOPE OF DELIVERY

UV hand-held lamp, power cord

TABLE TRIPOD

optional: Table tripod



Spectra of UV hand-held lamps

SAFETY

The device emits UV-A and UV-C-radiation. UV radiation is invisible and harmful to skin and eyes.

UV radiation can cause cataracts in the eye lens, retina damage and conjunctivitis. Do not stare into the light source with unprotected eyes. Always use suitable UV safety goggles when operating the device.

UV radiation can also cause skin discoloration, erythema and, inter alia, skin aging. Please use suitable clothing, gloves and/or sunscreen depending on the irradiation dose.

The devices are designed and classified in accordance with DIN EN 62471:2009-03 „Photobiological safety of lamps and lamp systems“.

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LAMP REPLACEMENT

To replace the tubes, pull out the mains plug. Loosen the four screws on the top cover (with the handle). Lift up the internal reflector. You'll see the UV tubes behind the reflector.

By rotating the tubes they can easily be removed. Exchange by matching replacement lamps.

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