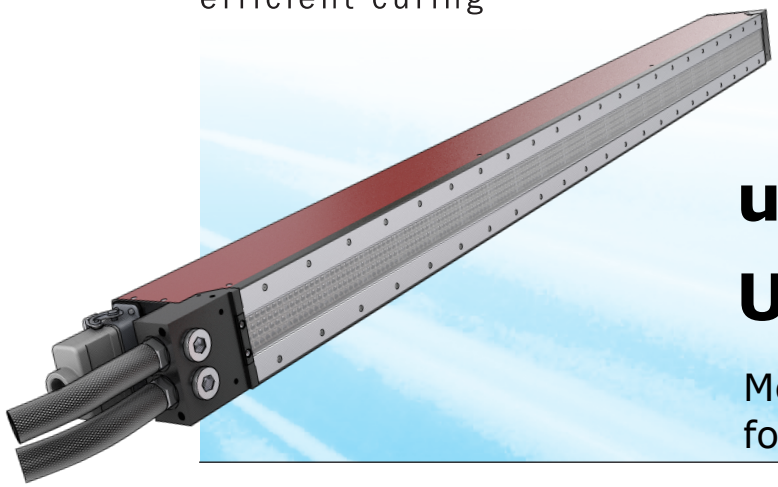
uviterno
efficient curing

UVA LED Module, water-cooled



uviterno REDline

UV-LED Module

Modular water-cooled irradiation system for all UV curing applications.

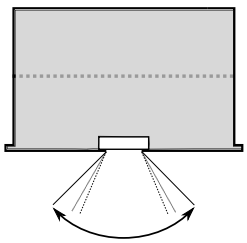
Features

- immediate on/off
- stable output
- dust proof housing
- energy effiencient
- slim design
- modular system
- replaceable quartz glass
- silent operation (no fan)
- ozone free
- mercury free
- water-cooled

The water-cooling concept and the narrow-band emission behavior of the **uv**iterno **RED**line series lead to minimal heat input into the substrate. The modules are designed for immediate operation and require neither warm-up time nor calibration.

The UV-LED chips are matched to one another in terms of their homogeneity through targeted selection, which ensures very even irradiation of the whole area. This leads to consistent behavior over the entire length of the module, long operational lifetime and reliability.

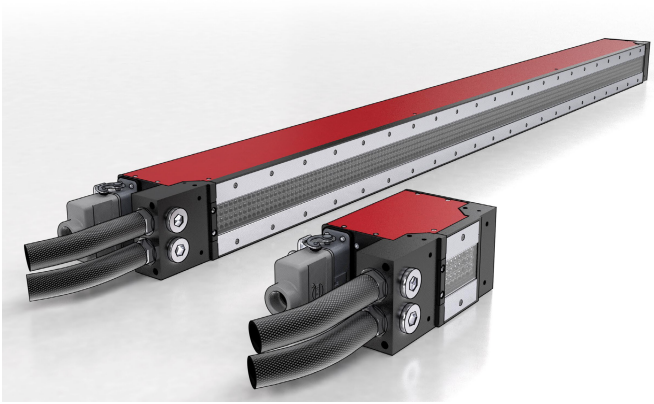
Irradiation is carried out via high-precision current control, so that the irradiation power can always be set very reliably with maximum reproducibility. The external power supply offers a flexible positioning of the UV-LED module.



View angle approx. 45° / 60° / 90°

Specifications (each module can consist of n COB elements of 60 mm / 2.36" each)

Beam window width	28 mm (1.10")
Beam window length	n x 60 mm (n x 2.36")
Module width	84 mm (3.31")
Module height	108 mm (4.25")
Module length	n x 60 mm + 100 mm (n x 2.36" + 3.94")
Module weight	n x 1 kg
Power consumption	n x 550 W (max)
Cooling system	Water
Interface	Analog, Modbus
Protection	Solenoid valve (cooling water)



The modular design offers a huge flexibility in possible system lengths.

Radiant Flux Output

Following irradiance values are performed at 25°C (77°F) stable and 0 mm distance from optic:

Peak wavelength [nm]	365	385	395	405
Peak irradiance [W/cm²]		up to 24		

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