



UV-OVEN DATASHEET

Plug & play compact UV LED curing oven

Easy-to-use & secured equipment



High repeatability, long lifetime & few maintenances thanks to LED technology

Electronics	Power supply	Single phase 100 to 305 VAC $\pm$ 10%, 50/60 Hz (maximal power consumption: 250W)
	User interface	TIMER (insolation time), POTENTIOMETER (UV power), START, STOP, STATUS LED
	Door security	LED automatically shut off when door is opened.
Optics	Wavelength	UVC: 255, 265, 275 nm UVB: 295, 305, 325, 340 nm UVA: 365, 385, 395, 405 nm VIS: 450, 465 nm (Blue), 525nm (Green), others on request.
	Light uniformity	> 90% on the 17x17 cm ² working area
	Irradiance on the working area	Up to 250 mW/cm ² in the UVA range Up to 20 mW/cm ² in UVC & UVB range
Mechanics	Width x Height x Length	410mm x 282mm x 246mm – External dimensions 190mm x 185mm x 175mm – Internal dimensions
	Weight	14kg
	Material	Device body: Aluminum alloy
	IP rating	IP40
Environment	Operation	Temperature: 10°C to 35°C – Humidity: 20% to 80% humidity (with no condensation) – Altitude: Up to 2000m
	Regulations & marking	CE - UKCA - FCC - ICES-3/NMB-3
	Environmental standards	RoHS III Directives - REACH Regulation - WEEE Regulation



Product reference

MONO wavelength version:

UV-OVEN - **XXX**

WAVELENGTH (nm)

UVC: 255, 265, 275
UVB: 295, 305, 315, 325
UVA: 365, 385, 395, 405
BLUE: 450, 465
GREEN: 525

DUAL wavelength version:

UV-OVEN - **XXX** - **YYY**

WAVELENGTH n°1 (nm)

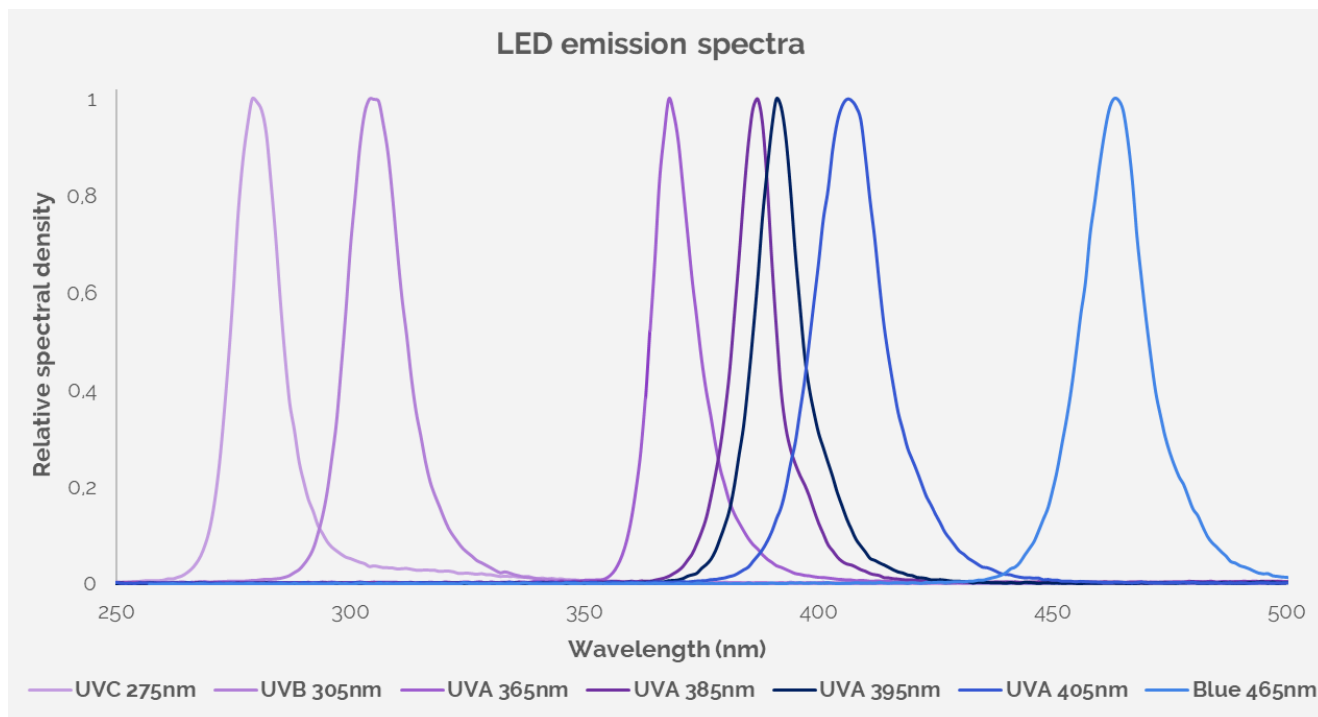
WAVELENGTH n°2 (nm)

UVC: 255, 265, 275
UVB: 295, 305, 315, 325
UVA: 365, 385, 395, 405
BLUE: 450, 465
GREEN: 525



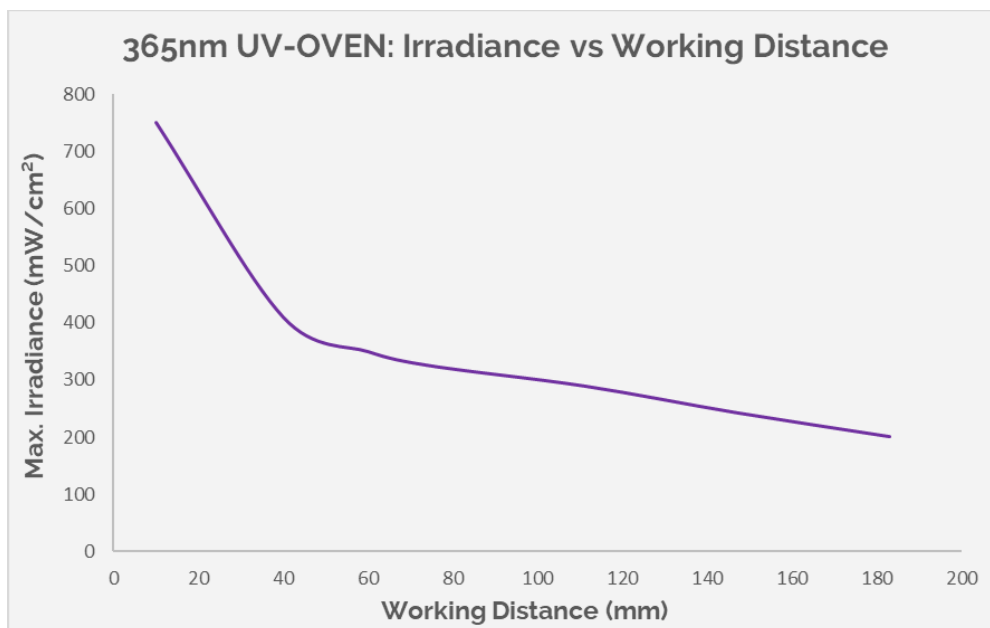
Optical characteristics

LED spectra



For other wavelengths (UVC / UVB / UVA / VISIBLE / IR), feel free to ask us!

Photometry



Curve plotted for UVA wavelength. Radiometer: GIGA HERTZ OPTIK RCH-116 (June 2023).

UV light homogeneity is more than 90% on working area of the UV-OVEN, thanks to high-density of LED and UV reflective inner walls.

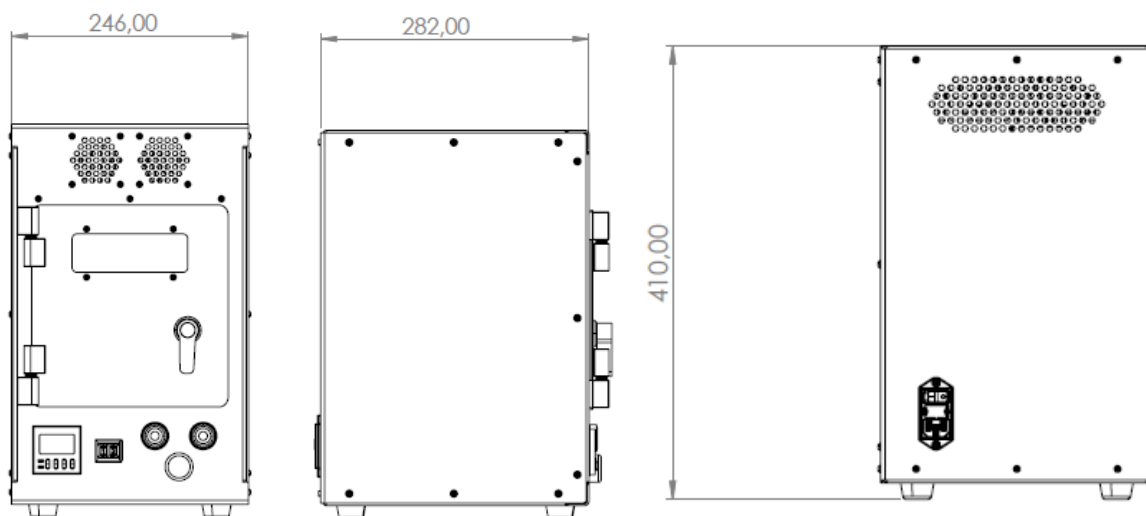


General Information

Presentation of parts



Mechanical considerations (mm)





Monitoring & UV security

UV CHAMBER and UV OVEN ranges from UWAVE are secured units to work safely without PPE like gloves or glasses and avoid direct exposition to UV rays:

- When a UV cycle is running, LED emission is stopped immediately if the door is opened by the user.
- No leaks of light through openings and edges thanks to smart mechanical designs.
- Visualization window allow the user to look inside the unit with no risks, with its 99,9% UV protection rate.

Thanks to its experience and knowledge about UV risks, UWAVE offers to its customer a wide range of UV measurement devices & services:

UV measurement	EIT LEDCURE: UV values recording. 		GIGAHERTZ OPTIK: Direct UV value reading. 
	UWAVE expertise	EXPOSURE LIMIT VALUE  According to European Directive 2006/25/EC.	PERFORMANCES QUALIFICATION  Monitoring of all performances of your device.
		MAINTENANCE & REPAIR  Preventive maintenance on site & LED repair service.	

UWAVE products come under the standard DIN EN 62471:2008 which classified sources of optical radiation into risk groups subject to their potential photo biological hazard. Due to the emission of high UV irradiation, our products belong to Risk Group 3 (hazardous even for momentary exposure) therefore special safety measures, detailed in the following, must be observed.

