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Powerful & portable UV LED curing pen

Optical flexibility thanks to its unique optical system

Long lifetime & few maintenances thanks to LED technology

Easy-to-use manually or with a PLC thanks to integrated smart electronics.

		UTARGET	UTARGET-AUTO			
Electronics	Power supply	24 VDC ± 10% (maximal power consumption: 4W)				
	Connector	Jack connector for power	LEMO – 4pins male for power and signals			
	Illumination mode	10 Levels between 0% to 100% of light intensity	Continuous with a direct DIM signal [0- 24V]			
Optics	Wavelength	UVA: 365, 385, 395, 405 nm - VIS: 465 nm				
	Irradiance	Up to 2000 mW/cm ²				
Mechanics	Width x Height x Length	150mm x 36mm (head diameter) & 22mm (body diameter)				
	Weight	130 g				
	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				



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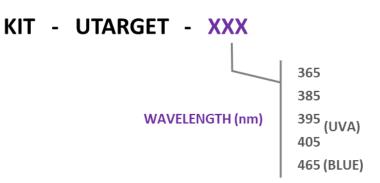






Product reference

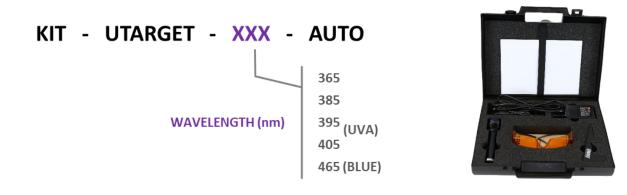
UTARGET standard version available into a complete KIT for manual use:







UTARGET-AUTO version available into a complete KIT for manual use:

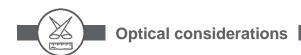




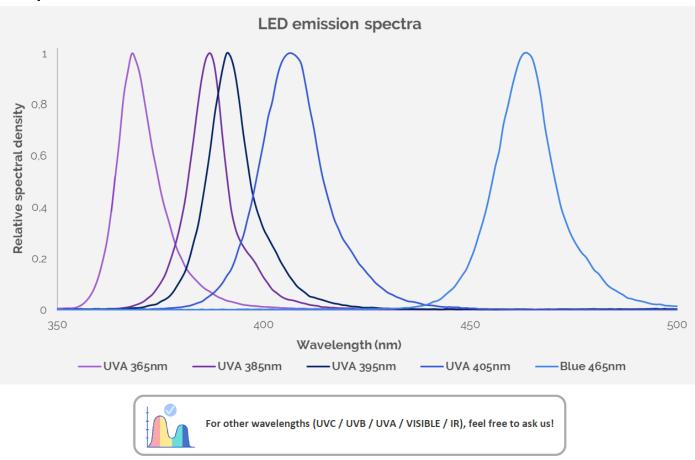
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LED spectra



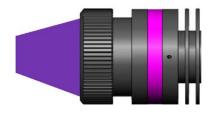
Adjustable optical system

Thanks to its own integrated optical system, this UV LED spotlight provides high irradiance and optical flexibility with two possible optical position: COLLIMATED or FOCUS.



COLLIMATED position

The light travels in straight lines without spreading or converging over a distance.



FOCUS position

The light is directed to a specific focal point to achieve more precision.

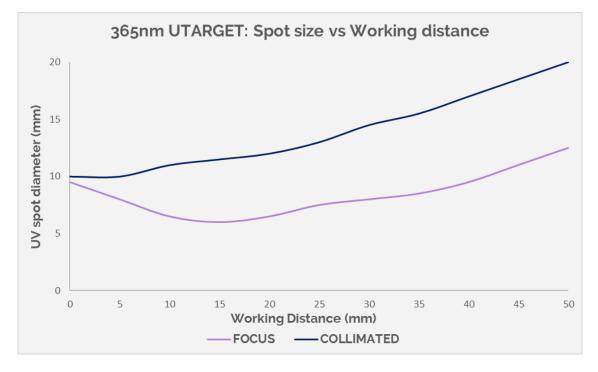


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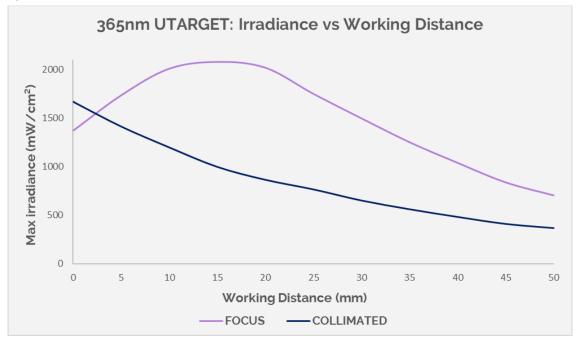




UV spot size



Photometry



Curve plotted for UVA wavelength. Radiometer: GIGA HERTZ OPTIK RCH-116 (June 2023). For the UV spot graph, the spot size is the exposed area where the irradiance is higher than 50% of the maximum irradiance.



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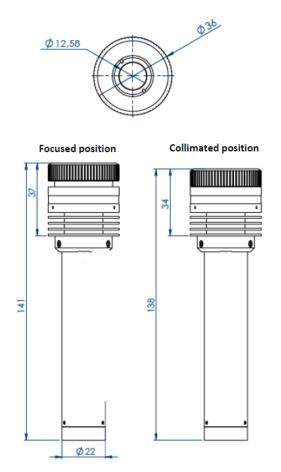


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UTARGET-XXX & UTARGET-XXX-AUTO



Dimensions are the same for the UTARGET and the UTARGET-AUTO



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Electronical considerations

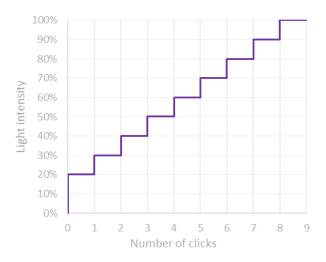
UTARGET

Information about status LED and buttons

Green LED		Red LED		Situation		
OFF	0	OFF	0	The UTARGET is not plugged		
OFF	0	ON		The UTARGET is plugged to an electrical source but does not emit UV		
ON		OFF	0	The UTARGET is plugged to an electrical source and emits UV		
ON		ON		The UTARGET is ON and it is at 100% of its power		
BLINK	0	OFF	0	Change of the light intensity after pushing the button (+) or (-)		
OFF	0	BLINK		Preventing the UTARGET from overheating		



Manual Intensity Control with Buttons



Once plugged the UTARGET (at 100%) is ready to be used. Use the buttons – (less) and + (more) to control the light intensity from 20% to 100%.



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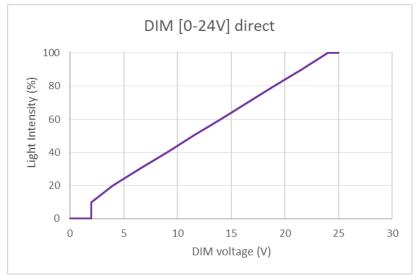
UTARGET-AUTO

Wiring layout

The UTARGET requires 24V DC input power. It integrates smart electronical board to achieve stable optical power and exploitable output signals. The UTARGET can be managed with a control unit (UPOWER – please refer to accessories part of this datasheet) or without a control unit through PLC wiring.

Contact arrangement	Pin number	Cable color	Designation	
	1	Brown	Power supply Input – 24V DC (1,5 A max)	
	2	White	TEMPERATURE ERROR output – 24V DC if LED temperature is correct or 0V DC if device overheats.	
	3	Blue	Power supply Input – 0V DC (GND)	
Male LEMO 4pins	4	Black	Dimming Input – [0-24V] direct	

Intensity Control (DIM signal)



Other Dimming signals are available upon request: 0-24V indirect, 0-10V direct, 0-10V indirect, 0-5V direct or 0-5V indirect.



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UTARGET

In order to allow facilitated manual use of the UTARGET-XXX-AUTO, UWAVE has developed a complete kit which contains the following components:



UTARGET-AUTO

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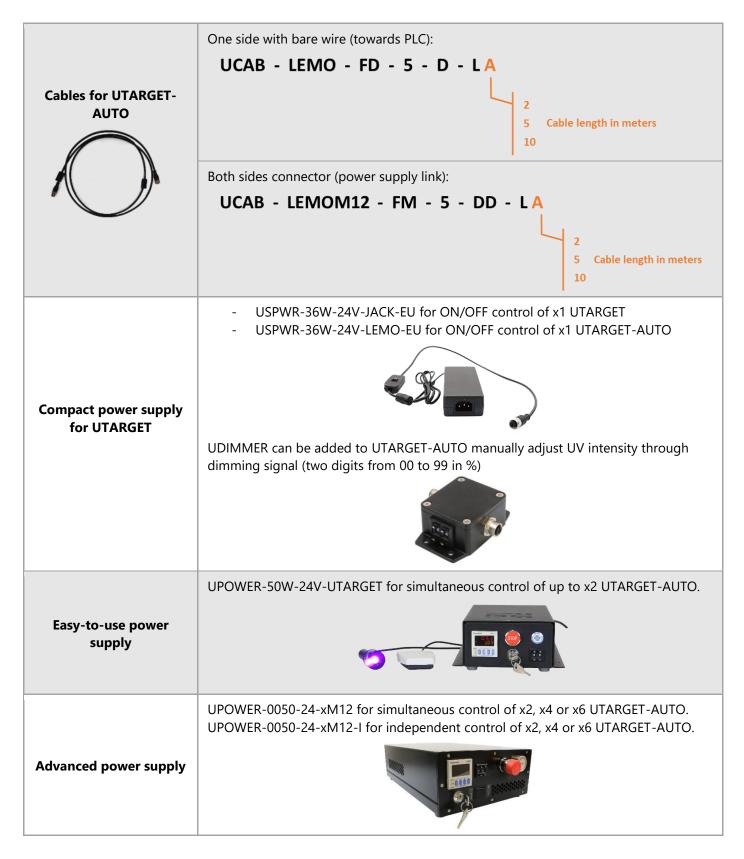


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Accessories

UWAVE offers a wide range of accessories to complete its UV LED lighting solution:





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UV security

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.



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

Eyes protection	UGLASS-02: To protect eye	s from direct rays.	UGLASS-03: To cover all the face.		
Body protection	UGLOVE-01: to prot	ect hands.	UV-SHIELD: To protect all workers around.		
UV measurement	EIT LEDCURE: UV values recording.		GIGAHERTZ OPTIK: Direct UV value reading.		
UWAVE expertise	EXPOSURE LIMIT VALUE	PERFORMANCES	performances of	MAINTENANCE & REPAIR	



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