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## SCHEDA TECNICA BLADE UVC (25cm) BLADE UVC (50cm)



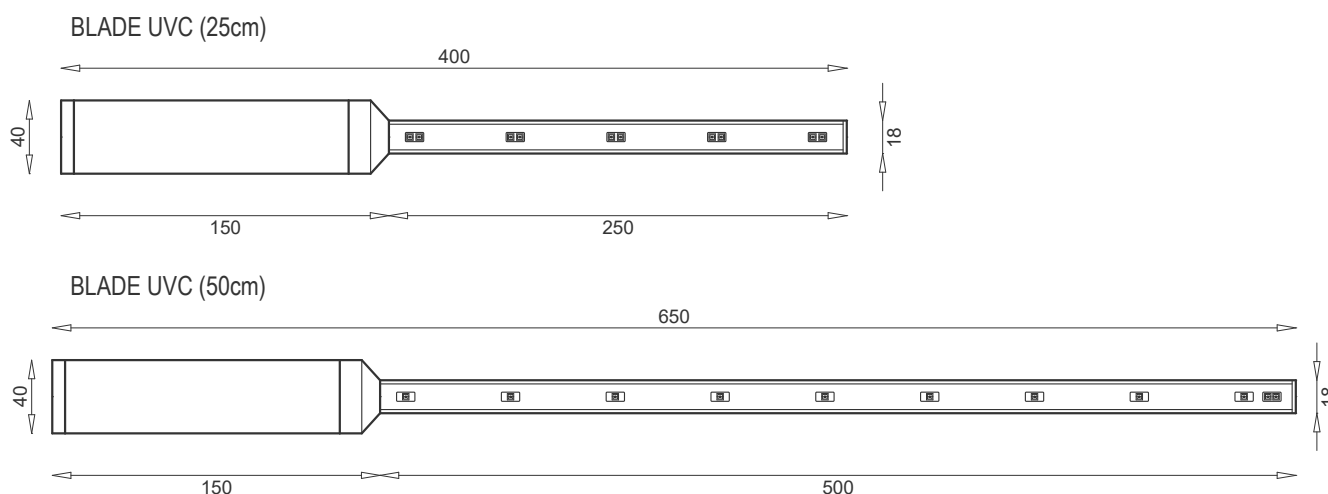
# SCHEDA TECNICA

## BLADE UVC (25cm)

## BLADE UVC (50cm)

### DESCRIZIONE

Blade UVC 250 e Blade UVC 500 sono dei dispositivi di sanificazione portatili a batteria che consentono di inibire, agendo direttamente sul DNA e/o RNA dei microrganismi, la riproduzione dei patogeni è idoneo su superfici di diversa natura senza danneggiare i materiali che lo compongono. La disinfezione con tale strumento è efficace se preceduta da un apposito trattamento di pulizia.



### DATI TECNICI

	BLADE UVC (50cm)	BLADE UVC (25cm)
modello	BLADE UVC (50cm)	BLADE UVC (25cm)
Codice	91-MNPL-00900500	91-MNPL-00450250
Dimensioni massime prodotto	650 x Ø40 (mm)	400 x Ø40 (mm)
Peso	406g	324g
Tipologia LED	UVC + UVA	UVC + UVA
Potenza	8W	6W
Lunghezza d'onda LED	275±5nm	
Distanza ottimale di trattamento	da 10 a 30mm	
Autonomia dispositivo	2,5h*	
Sistema di ricarica	micro USB-B 5V	
Intervallo di temperatura di esercizio	0-50°C	
Grado di protezione IP	IP20	
Classe di rischio fotobiologico	RG3	

\*durata ipotizzata in base ad un utilizzo continuo

I dati riportati nella presente documentazione sono da intendersi con una tolleranza del +/- 5%.

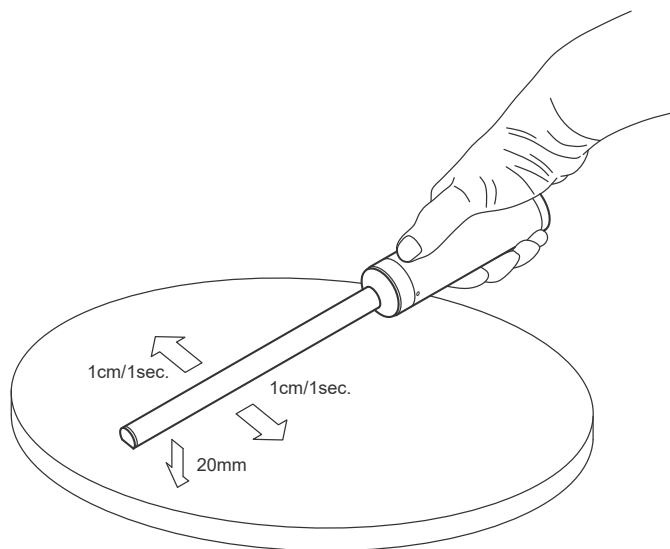
La lunghezza d'onda riportata nella presente documentazione è da intendersi con una tolleranza del +/- 5nm.

## SCHEMA TECNICA BLADE UVC (25cm) BLADE UVC (50cm)

**tabella esempi di sanificazione**

Livello sanificazione (%)	90%	99%
Monitor (es.23")	120sec. / 60sec.	240sec. / 120sec.
Tastiera	45sec. / 15sec.	90sec. / 30sec.
Mouse	3sec. / 3sec.	6sec. / 6sec.
Telefono fisso + cornetta	9sec. / 9sec.	18sec. / 18sec.
Tavolo (1m <sup>2</sup> )	400sec. / 200sec.	800sec. / 400sec.
Scrivania (2m <sup>2</sup> )	800sec. / 400sec.	1600sec. / 800sec.

*\*\* i valori in secondi riportati fanno riferimento alla durata di trattamento con Blade UV-C (25cm) / Blade UV-C (50cm)*



### ISTRUZIONI PER LA SICUREZZA

- Per utilizzare l'apparecchio è necessario indossare i seguenti DPI (Occhiali di protezione UVC cod. 913904CX e Guanti di protezione cod. 9392030X).
- Non utilizzare l'apparecchio in presenza di persone non protette dai DPI obbligatori indicati.
- Non guardare i LED UVC direttamente. La lunghezza d'onda UVC non risulta visibile all'occhio umano.
- Oltre all'utilizzo di tutti i dispositivi di protezione individuale (DPI), per un uso sicuro dell'apparecchio, si deve prendere nota di tutte le prescrizioni relative alla prevenzione degli infortuni riportate nei vari punti di questo manuale.
- Ogni persona che viene incaricata dell'uso e della manutenzione dell'apparecchio, deve aver prima letto il presente documento.
- Durante tutte le fasi dell'utilizzo dell'apparecchio, si raccomanda la massima cautela in modo da evitare danni a persone, a cose o all'apparecchio stesso.
- Utilizzate l'apparecchio solo ed esclusivamente per l'utilizzo previsto e nelle modalità qui descritte (sanificazione superfici).
- Non manomettere il dispositivo.
- Tenere l'apparecchio fuori dalla portata dei bambini
- Le piante e gli animali da interno non tollerano gli UVC e devono essere schermati o rimossi.
- Opere d'arte costose dovrebbero essere coperte

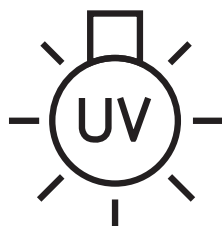


### ! ATTENZIONE !

I dispositivi BLADE UVC (50cm) e BLADE UVC (25cm) emettono luce ultravioletta ad alta intensità che può danneggiare gli occhi e la pelle, seguire quindi scrupolosamente le istruzioni di sicurezza riportate dal presente documento.

**Evitare l'esposizione diretta di occhi e pelle con la luce emessa dai LED UV-C.**

**Tenere fuori dalla portata dei bambini.**





## SCHEDA TECNICA BLADE UVC (25cm) BLADE UVC (50cm)

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Installation must be carried out under observation of the relevant regulations and standards. The LED modules are designed for operation within a casing or luminaire. Installation must be carried out in a voltage-free state (i.e. disconnection from the mains).

The following advice must be observed; non-observance can result in the destruction of the LED assembly modules, fire and/or other hazards.

- Consider safety regulations acc. EN 60598 in the luminaire design, especially when the operating LED driver is not galvanic isolated.
- In mode of operation regard to sufficient isolation.
- Live parts must not be touched in operation mode. Danger in life!!!
- ESD (electrostatic discharge) protection measures must be observed when handling and installing the LED modules. See VS's application notes on ESD protection.
- Adequate anti-static electricity measures, including the use of conductive shoes, ionizers, work bench grounding, wrist straps, flooring and stools should be used.
- LED assembly modules must not be subjected to any undue mechanical stress, e. g.:
  - do not treat as bulk cargo
  - avoid shear and compressive forces during handling and installation
  - do not damage circuit paths
  - avoid any pressure on the light emitting surface
- Safe operation only possible by the use of external constant current sources (I<sub>max</sub>. see table "Electrical Characteristics").
- Operation only with power supply units that feature the following protection:
  - Short-circuit protection
  - Overload protection
  - Overheating protection
- The module can be fixed with M3 screws. Fixation only with flat or cylinder head screws (M3) (no countersank screws) Max. torque: 1.2 Nm (M3)
- Please ensure the correct polarity of the leads prior to commissioning. Reversed polarity can destroy the modules.
- For interconnection the LED modules is equipped with push-in terminals (WAGO 2060).
- Safety regulations acc. to EN 60598 (or further standards) has to be observed if the maximum output voltage exceed the permitted touchable value.
- The following points must be observed when connecting LED modules in parallel:
  - All LED strings that are wired in parallel must contain the same number of LEDs (symmetrical loading).
  - Owing to differing forward biases, there can be a difference of up to 10% in brightness between modules connected in parallel.
- To ensure problem-free operation, the specified maximum temperature at the tp point (see "Operating Life") must be observed (and measured in accordance with EN 60598-1). To satisfy this point, it may be necessary to put measures in place to ensure any heat is dissipated from the PCB to the environment.
- In the event of outdoor applications or applications in damp locations, care must be taken to protect LED assembly modules against humidity, splashes and jets of water. Any corrosion damage resulting from humidity or contact with condensation will not be recognized as a defect or manufacturing fault. LED assembly modules are not specially protected against foreign bodies or dust. Depending on the type of application, further protection must be ensured to prevent dust and foreign bodies from entering.
- Due to the manufacturing process, the PCBs of the LED assembly modules can have sharp edges and corners. Care must therefore be taken during handling and installation to avoid injury.
- For optimal load of used constant current driver the modules can only be connected in series. The quantity of LED modules is limited by the sum of forward voltage and the capacity of used constant current driver. Safety regulations acc. to EN 60598 has to be observed if the sum of forward voltage exceed the permitted touchable value.
- Operating LED modules in the presence of certain chemical substances or in chemically enriched (aggressive) environments can impair module functionality or even cause total module failure.
- The photobiological safety of the LED modules must be classified into risk groups in accordance with IEC / TR 62778: risk group 1 (except HB, 6500 K, > 500 mA: risk group 2)

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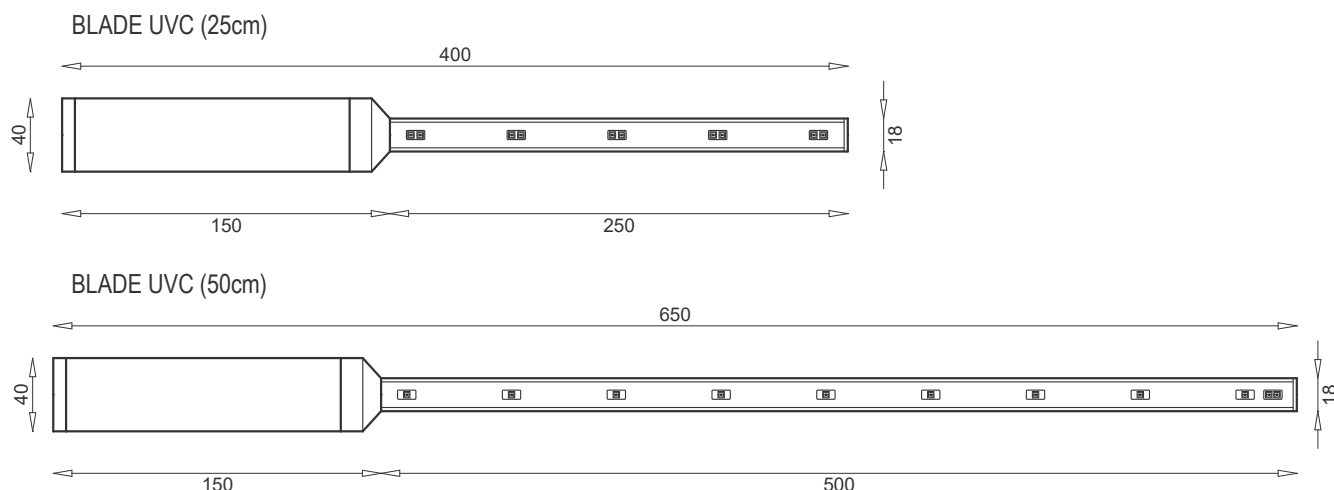
# SCHEDA TECNICA

## BLADE UVC (25cm)

## BLADE UVC (50cm)

### DESCRIPTION

Blade UVC 250 and Blade UVC 500 are portable battery-operated sanitizing devices that allow to inhibit, by acting directly on the DNA and / or RNA of microorganisms, the reproduction of pathogens is suitable on surfaces of different nature without damaging the materials that compose it. Disinfection with this tool is effective if preceded by a special cleaning treatment.



### TECHNICAL DATA

	BLADE UVC (50cm)	BLADE UVC (25cm)
Model	BLADE UVC (50cm)	BLADE UVC (25cm)
Code	91-MNPL-00900500	91-MNPL-00450250
Maximum product dimensions	650 x Ø40 (mm)	400 x Ø40 (mm)
Weight	406g	324g
LED type	UVC + UVA	UVC + UVA
Power	8W	6W
LED wavelength	275±5nm	
Optimal treatment distance	da 10 a 30mm	
Device autonomy	2,5h*	
Charging system	micro USB-B 5V	
Operating temperature range	0-50°C	
IP protection degree	IP20	
Photobiological risk class	RG3	

\* duration assumed based on continuous use

The data shown in this documentation are intended with a tolerance of +/- 5%.

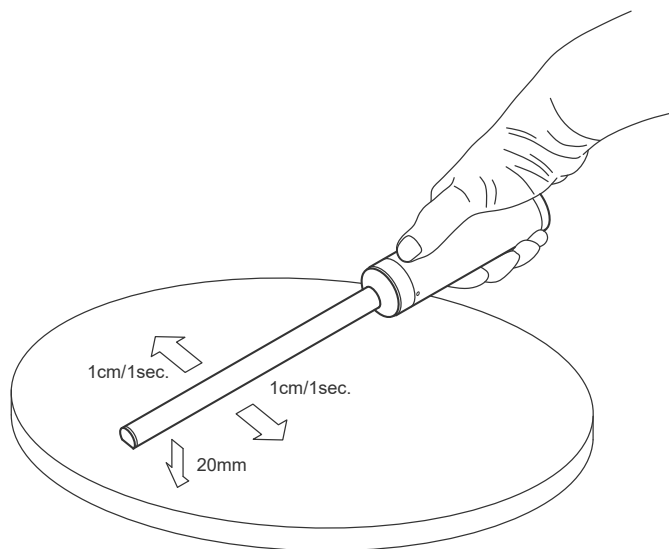
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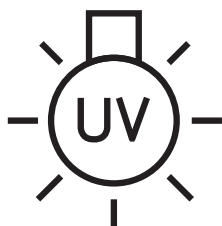
sanitation examples table		
Sanitation level (%)	90%	99%
Monitor (eg 23 ")	120sec. / 60sec.	240sec. / 120sec.
Keyboard	45sec. / 15sec.	90sec. / 30sec.
Mouse	3sec. / 3sec.	6sec. / 6sec.
Landline phone + handset	9sec. / 9sec.	18sec. / 18sec.
Table (1m2)	400sec. / 200sec.	800sec. / 400sec.
Desk (2m2)	800sec. / 400sec.	1600sec. / 800sec.

\*\* the values in seconds reported refer to the duration of treatment with Blade UV-C (25cm) / Blade UV-C (50cm)



### SAFETY INSTRUCTIONS

- To use the device, the following PPE must be worn (UVC protective glasses code 913904CX and protective gloves code 9392030X).
- Do not use the device in the presence of people not protected by the mandatory PPE indicated.
- Do not look at the UVC LEDs directly. The UVC wavelength is not visible to the human eye.
- In addition to the use of all personal protective equipment (PPE), for safe use of the device, it is necessary to take note of all the requirements relating to the prevention of accidents listed in the various points of this manual.
- Each person who is in charge of the use and maintenance of the appliance must first have read this document.
- During all phases of use of the appliance, we recommend the utmost caution in order to avoid damage to people, property or the appliance itself.
- Use the appliance only and exclusively for the intended use and in the manner described here (surface sanitization).
- Do not tamper with the device.
- Keep the appliance out of the reach of children
- Indoor plants and animals do not tolerate UVCs and must be shielded or removed.
- Expensive works of art should be covered



### ! ATTENTION !

The BLADE UVC (50cm) and BLADE UVC (25cm) devices emit high intensity ultraviolet light that can damage the eyes and skin, therefore carefully follow the safety instructions contained in this document.

**Avoid direct exposure of eyes and skin with the light emitted by UV-C LEDs.  
 Keep out of reach of children.**



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