

# POLAR UV-C LAMP



## CARACTERÍSTICAS

\*Setting up according to customer needs (possibility of assembly in AGV)

### UV-C LAMP

It is a germicidal system controlled by "Remote Control System".

Germicide and transport function, low consumption LED system and pluggable or battery recharging.

Without maintenance and with a self-installing kit.

Washable.

Customizable colour.

Streamlines logistics and prevents contamination.

"Within the reach of any industry."

"High quality plug-and-play UV-C lamp".

Control by APP installable on mobile phones or tablets.



## CONTACT

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## DESCRIPTION

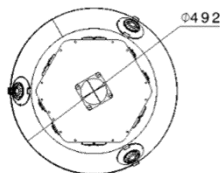
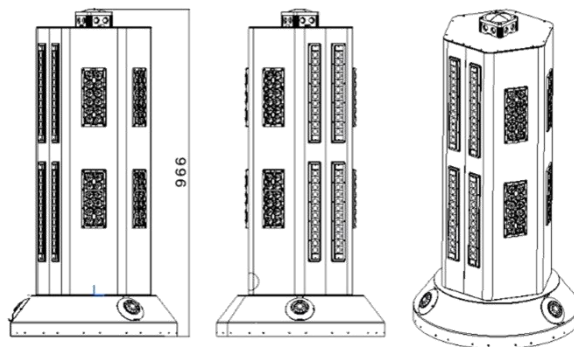
POLAR develops a UV-C lamp to offer a compact system for disinfection applications: for interior areas (warehouses, containers, cargo warehouses, vehicle boxes, transit areas, etc.).

High quality UV-C ultraviolet light system (275nm) from LED system. Eliminates germs and pathogens that can remain in the air and on surfaces exposed to radiation.

## APPLICATIONS

*"Our solutions significantly help the logistics process while maintaining personnel safety"*

Configuration UV-C LED	192 LED UV-C Seoul Viosys - CUD8AF1D
UV-C LED	192 LED UV-C Seoul Viosys - CUD8AF1D
UV-C Disinfection efficiency	99.99 %
Durability	L70 25.000 h
Dimensions	850 x 370 x 320 mm
Environment	Indoor
weight	12kg
Dimensions	850 x 370 x 320 mm
Radio transceiver	OP-Fr 2.4...2.483 Ghz
Remote control	Casambi (bluetooth)
Approximate disinfection rate ( AGV system)	*Ver Pathogen table
Consumption /h	250w/h
Battery voltage / nominal capacity	24/20-26 V/Ah
Autonomy	6-8h
Battery weight	3.7 kg
VDI cycle energy consumption	0.25 kWh/h
Battery (option)	Li-Ion 24V/20Ah 480W



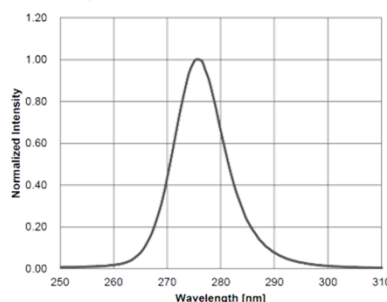
All measurements in mm, images are approximate.

### Options:

Lamp with battery or roll-up cable.

Lamp with assembly option AGV (automated guided vehicle).

Fig 1. Spectrum,  $T_s=25^{\circ}\text{C}$ ,  $I_s=200\text{mA}$



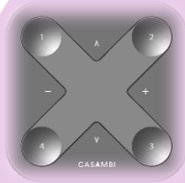
### LEDS

8 racks 192 LED UV-C Seoul Viosys - CUD8AF1D

8 racks 192 LED UV-C Seoul Viosys - CUD8AF1D



# POLAR UV-C LAMP



## CONTROL

\* intuitive and simple

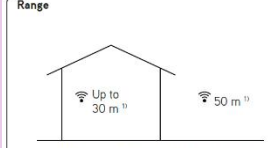
## UV-C LAMP CONTROL

Use low-power wireless technology via a Bluetooth module for smartphones, tablets, and even smart watches.

It also has a remote control built into the lamp.

Xpress is a wireless user interface that can be configured through the Casambi application.

**Range**



Compatible devices:  
 iPhone 4S or later  
 iPod 3 or later  
 iPod Touch 5th gen or later  
 Android 4.4 KitKat or later devices  
 produced after 2013 with full BT 4.0 support

1) Range is highly dependant on the surrounding and obstacles, such as walls and building materials.



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## PATHOGENS

**POLAR** develops this germicidal system with the studies carried out by **Seoulviosys**.

Type table.

Average Irradiance	0.094	mW/cm <sup>2</sup>
Average Adjusted Irradiance	0.082	mW/cm <sup>2</sup>
Time	1.000	s
Average adjusted Dosage	0.082	mJ/cm <sup>2</sup>

Bacteria	% Reduction of system dosage	Time required for 6% reduction of original population
Bacillus anthracis - Anthrax	4.96%	1m 30s
Bacillus anthracis spores - Anthrax spores	0.95%	8m 0s
Bacillus magaterium sp. (spores)	8.16%	54s
Bacillus magaterium sp. (veg.)	16.22%	26s
Bacillus paratyphus	6.99%	1m 3s
Bacillus subtilis spores	1.99%	3m 49s
Bacillus subtilis	3.94%	1m 54s
Clostridium tetani	1.99%	3m 49s
Corynebacterium diphtheriae	6.57%	1m 7s
Eberthia typhosa	10.23%	43s
Escherichia coli	6.48%	1m 8s
Leptospirocicola - infectious Jaundice	7.11%	1m 2s
Micrococcus candidus	3.53%	2m 8s
Mycobacterium tuberculosis	4.33%	1m 44s
Neisseria catarrhalis	5.07%	1m 28s
Phytomonas tumefaciens	5.38%	1m 23s
Proteus vulgaris	6.48%	1m 8s
Pseudomonas aeruginosa	4.13%	1m 49s
Pseudomonas fluorescens	6.48%	1m 8s
Salmonella enteritidis	5.65%	1m 19s
Salmonella paratyphi - Enteric fever	6.99%	1m 3s
Salmonella typhosa - Typhoid fever	10.23%	43s
Salmonella typhimurium	2.87%	2m 38s
Sarcina lutea	1.66%	4m 34s
Serratia marcescens	6.93%	1m 4s
Shigella dysenteriae - Dysentery	10.00%	44s
Shigella paradyserteriae	12.20%	35s
Spirillum rubrum	6.93%	1m 4s
Staphylococcus albus	7.44%	60s
Staphylococcus aureus	6.48%	1m 8s
Staphylococcus lactis	4.90%	1m 31s
Streptococcus viridans	10.99%	40s
Vibrio comma - Cholera	6.58%	1m 7s

Molds	% Reduction	Time required
Aspergillus flavus	0.45%	17m 10s
Aspergillus glaucus	0.50%	15m 16s
Aspergillus niger	0.13%	57m 15s
Mucor racemosus A	1.25%	6m 6s
Mucor racemosus B	1.25%	6m 6s
Clospora lactis	3.94%	1m 54s
Penicillium expansum	1.99%	3m 49s
Penicillium roqueforti	1.66%	4m 34s
Penicillium digitatum	0.50%	15m 16s
Phissopus nigricans	0.20%	38m 10s
Protozoa		
Chlorella Vulgaris	1.99%	3m 49s
Nematode Eggs	0.48%	15m 57s
Paramecium	2.19%	3m 28s
Virus		
Bacteriophage - E. Coli	6.48%	1m 8s
Infectious Hepatitis	5.38%	1m 23s
Influenza	6.48%	1m 8s
Poliovirus - Poliomyelitis	6.48%	1m 8s
Tobacco mosaic	0.10%	1h 16m 20s
Yeast		
Brewers yeast	6.48%	1m 8s
Common yeast cake	3.30%	2m 17s
Saccharomyces cerevisiae	3.30%	2m 17s
Saccharomyces ellipsoideus	3.30%	2m 17s
Saccharomyces spores	2.48%	3m 3s

Approximate values

[www.seoulviosys.com](http://www.seoulviosys.com)

## SECURITY

**"Always transmitting security and complying with current legislation UNE-0068"**


The appliance, accessories and packaging must undergo a recovery process that respects the environment ambient.

**I Do not throw the appliance in the trash!**

Only for EU countries:

In accordance with the European Directive 2012/19 / EU on unusable electrical appliances, after

its transposition into national law, electric tools must be accumulated separately to undergo ecological recycling



**CAUTION**

- UV LEDs emit high intensity UV light.
- Do not look directly into the UV light during operation. This can be harmful to your eyes and skin.
- Wear protective eyewear to avoid exposure to UV light.
- Attach caution labels to your products which contain UV LEDs.

**Avoid direct eye and skin exposure to UV light. Keep out of reach of children.**

