

# HIGYA Light

Smart UV-C LED device for air disinfection

## Fighting COVID-19

Reducing the viral load in the air



A smart device for disinfecting rooms by reducing the viral load in the air, operating on 265 nm ultraviolet light technology.

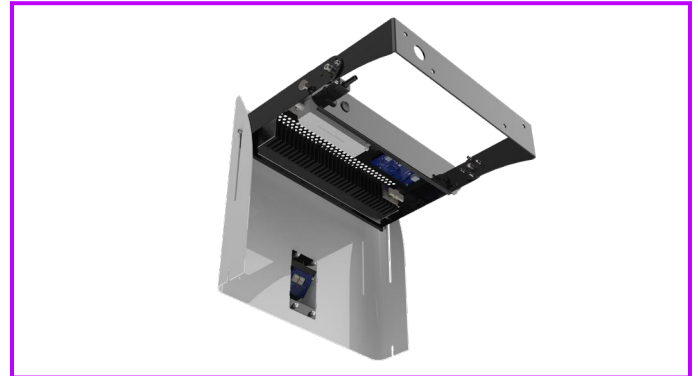
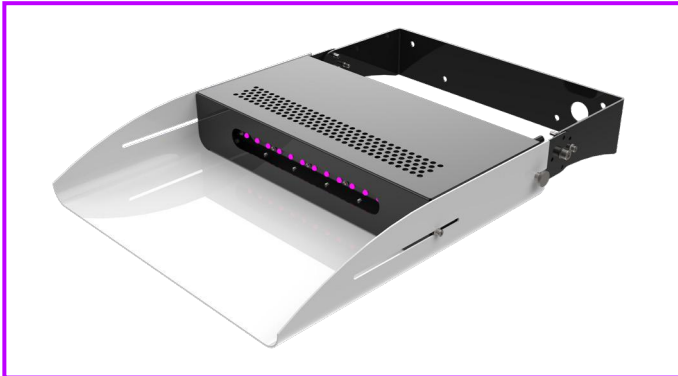
## BENEFITS

- ◆ Smart operation that adjusts ultraviolet irradiance to movement in spaces efficiently and continuously.
- ◆ Operates at UV-C length 265 nm ideal for absorption by the constituent RNA of viruses and the DNA of bacteria.
- ◆ High transmittance quartz lens at UV-C length (~90%).
- ◆ Ceiling or wall mount, with 5 and 10° angle adjustment to avoid irradiation in occupied areas.
- ◆ Compact and elegant design.

## APPLICATIONS

The HIGYA LED disinfection product range UV-C 265 nm can be applied in a multitude of professional environments and public spaces.

Libraries | Households | Day care centers | Schools and kindergartens | Offices | Industry | Hospitality | Restaurants



This smart device reduces the viral load in room air by using 265 nm UV-C LED technology. Thanks to the integrated motion sensor, it adjusts the disinfection of the air to the movement detected in the rooms in an efficient way, without exposing the occupants to irradiation.

With the equipment installed above a height of 2.1 m, in compliance with safety standards, air disinfection by C-type ultraviolet radiation is done in the upper layer of the room, propagating through the air circulation in the room to the entire available air volume, throughout the time of use.

On the other hand, the design and type of lenses used provide a directed beam of light, mostly horizontal and the rest upwards towards the ceiling.

Mounting can be done on the ceiling or on the wall, with an angle adjustment of 5 and 10°.

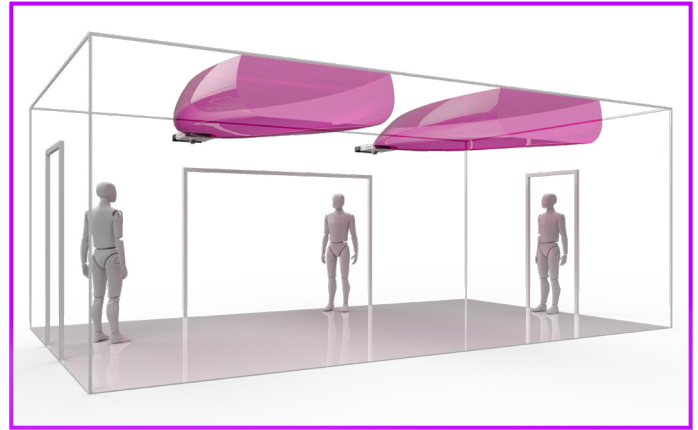
## CHARACTERISTICS

- ◆ It uses innovative LED technology that emits at the 265 nm wavelength, ideal for absorption by the RNA constituent of viruses and the DNA of bacteria.
- ◆ High transmittance quartz lens (~90%), which allows you to direct the light beam horizontally.
- ◆ Each device was sized for a disinfection area of approximately 12 m<sup>2</sup>. The distribution of the equipment should always be adequate to the dimensions and shape of the spaces.
- ◆ Possibility of connection through its own cable (optional) or through an IEC plug adaptable to the local electrical installation.

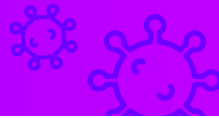
<b>Power Supply</b>	220 – 240 Vac ~50-60Hz
<b>Power cable</b>	1,8 m long
<b>Electrical insulation</b>	Class I (requires grounding)
<b>Consumption</b>	60 W
<b>Driver</b>	LPF-60-54
<b>Light Source</b>	1 x 12 LED UV-C
<b>UV-C wavelength</b>	265 nm
<b>Lifespan</b>	3,000 hours
<b>Protection index (IEC - EN 60598)</b>	IP20
<b>Overall dimensions (WxHxD)</b>	450 x 131 x 619 mm
<b>Mandatory Installation</b>	Above 2,1 m
<b>Warranty</b>	2 years

### SAFETY

- ◆ Ceiling or wall mounting. The minimum installation height of 2.1 m must be respected.
- ◆ Allows angle adjustment of 5 and 10° to avoid irradiation in areas with occupants.
- ◆ Motion sensor to intelligently adjust the irradiation of the spaces according to the detected movement:
  - ◆ optimizes air disinfection depending on movement in the space.
  - ◆ greater energy efficiency.



### FIGHTING COVID-19



The sterilizing ability of ultraviolet radiation is recognized and is helping to combat COVID-19, allowing disinfection of the air over large areas, and is a safe application with proven efficacy.

In the context of the SARS-CoV-19 pandemic, the disinfecting potential of the 265 nm UV-C LED, applied to specialized devices, is an excellent tool to help reduce transmission of the SARS-CoV-2 virus.

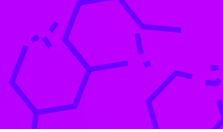
### BENEFITS OF THE UV-C LED TECHNOLOGY

The 265 nm UV-C LED has several advantages over other conventional C-type ultraviolet light emitting sources:

- ◆ It is a source with less environmental impact.
- ◆ It can be turned on and off uninterruptedly without affecting its useful life.
- ◆ The emission technology of the 265 nm UV-C LED has no ozone (O<sub>3</sub>) emissions.
- ◆ It “lights up” immediately, without the need for heating.

### HIGYA UV-C LED DEVICES

Safe: no exposure to ultraviolet radiation.



ARQUILED HIGYA product range consists of air and surface disinfection devices, equipped with LED UV-C 265 nm, which use the germicidal action of ultraviolet radiation to kill viruses and bacteria.

These devices operate at UV-C length 265 nm, ideal for absorption by the constitutive RNA of viruses and the DNA of bacteria and have a proven 99.95%\* effectiveness in inactivating the viral load.

Arquiled is a native of LED technology, having pioneered in Europe the development of LED lighting for different segments such as scenic, architectural, and public lighting, and now also the integration of UV-C LED into air and surface disinfection devices.

\* The test performed by the *Instituto de Medicina Molecular | João Lobo Antunes*, on the product HIGYA BOX, to determine the antiviral activity of UV-C 265 nm irradiation against SARS-CoV-2 showed an excellent antiviral effect. With a single decontamination cycle, the viral load was reduced by more than 3.33 logs, which is a reduction of more than 99.95%.

# HIGYAlight

# HIGYAbox

# HIGYAair

## SAFETY PRECAUTIONS

HIGYA LIGHT is intended exclusively for room disinfection and air sterilization. The equipment may only be used for air disinfection and in accordance with the instructions for use and is not intended for any other applications. This equipment is not approved or certified as a medical device.

Arquiled - Projectos de Iluminação S.A., with headquarters in Rua C - Zona Industrial, Lote 40, 7490-328 Mora, Portugal, accepts no responsibility for material damage, including product damage or personal injury caused by the user's failure to follow the safety instructions in the manual or applicable legislation.

Cofinanciado por:

