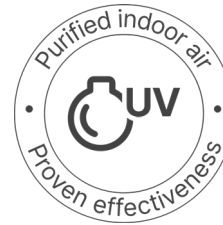
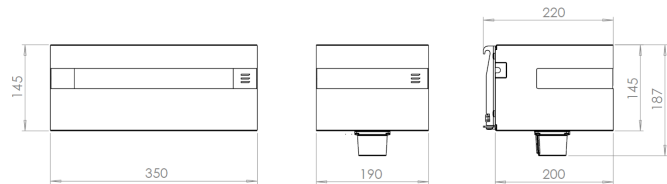


UV Smart Ceiling Hub – Technical data

Professional indoor air disinfection. Modular and high effective UV-C LED disinfection upper-room system. By using modern, highly focused LED technology, the UV-C works effectively far into the room without emitting uncontrolled radiation.



- Reduction of the risk of infection indoors
- Extremely fast disinfection
- Long range effectiveness
- Use of state-of-the-art LED technology
- Noiseless
- Validated by independent institutes
- Modular installation, can be installed in a row or distributed



Type

Designation	UV Smart Ceiling Hub
Installation	Modular (up to 10 LED Modules)

Mechanical data

Housing material	Powder-coated sheet steel
Color (Standard)	RAL 9016 white
Measurements (L x W x H, incl. sensor)	350 x 220 x 145 mm UV-C Module 190 x 220 x 187 mm Basic Module
Weight	8 kg LED Module 6 kg Basic Module
Mounting type	Wall or Ceiling mounting
Minimum installation height	2.2 m / 2.4 m (bottom edge)*

Optical data

Radiation source	UV-C LED
Wavelength	280 nm (+/- 5 nm)
Irradiance Ø	2,5 mW / cm ²
Photobiological safety	Risk class 3
Active optical area	Open, 660 mm

* Minimum recommended mounting height 2.20 m (lower edge of the unit):
for room width up to 4 m.
Minimum recommended mounting height 2.40 m (lower edge of the unit):
for room width up to 7 m.
A higher installation of the unit allows for greater room depth.

Electrical data

Connected load	Max. 420 W AC (with 10 LED Modules)
Supply voltage	220 – 240 V / 50 Hz
Control unit	mains voltage switch (On/Off)
Connection	IEC connector C14
Protection class	I Basic Modul, III LED Modul
Maintenance interval	10,000 operating hours

Environmental conditions

Ingress prot.	IP 20
Ambient temperature	10 to 35°C
Recommended room depth	1-7 m

Labeling and certificates

License plate	CE
Applied standards	EN ISO 12100 DIN EN 62471-6 DIN EN IEC 55014 DIN EN 60335-1 DIN EN 62471-1 EMV2014/30/EU EU 2023/826 DIN EN ISO 15858
Proof of effectiveness	LMU, Fraunhofer IBP

UV Smart Ceiling Living – Technical data

Safety instructions

The disinfection device operates with open UV-C radiation and belongs to photobiological risk group 3. It is designed to operate in the upper part of the room. UV-C radiation can potentially be harmful to the skin and eyes; therefore, direct exposure must be avoided. UV-C radiation is invisible. Objects located within the radiation path may also be damaged and can reflect the radiation uncontrollably into the room. For this reason, UV-C devices must only be distributed by trained partners and installed and maintained in accordance with strict safety regulations. No modifications may be made to the system or within the radiation zone after installation. As an additional safety measure to prevent accidental exposure, a LiDAR sensor is integrated. It monitors the area beneath the radiation zone and automatically deactivates the UV-C radiation if people or objects are approaching the exposure area.

Areas of application

- Waiting areas / Medical practices
- Office spaces
- Hospitality (Hotels)
- Gastronomy (Restaurants and Food Services)
- Libraries and Examination rooms
- Critical infrastructures

Proof of effectiveness

The system was validated as highly effective by LMU. 99.8% of corona viruses were eliminated in a single pass, through UV-C active zone. Depending on the design and installation, the air is circulated once every 30 seconds, so that this system works effectively and minimizes the risk of infection or a severe course.

In a further elaborate test, a meeting simulation was carried out at the Fraunhofer Institute for Building Physics in Valley in 2023 to demonstrate the effect in the room. Even in a realistic scenario with continuous dosing of viruses, hardly any viruses were detectable in the room. Because of high equivalent air exchange rates, the system works extremely fast and thus protects effectively against infection. Corresponding test reports are available on request.