



# haasLEUCHTEN Sterilization & Disinfection Solutions

**Haas & Schmidt Lighting Ltd.**

2020



# Sterilization & disinfection with intelligent lighting

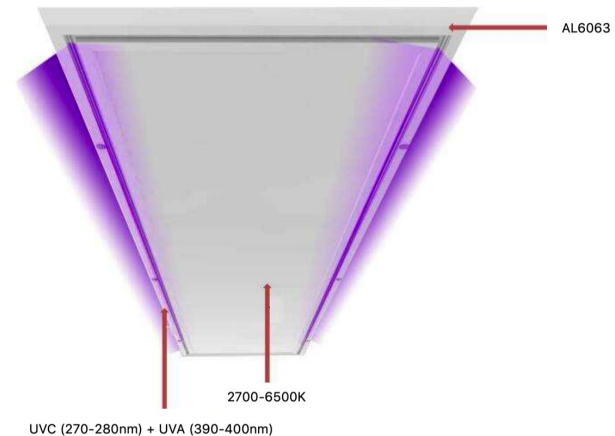
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The haasLEUCHTEN UV-C (a subtype of ultraviolet radiation) LED panel is capable of sterilization and disinfection. It is newly designed meeting high technical standards primarily for hospital and clean rooms, especially for areas where the Coronavirus disease (COVID-19) pandemic might have a serious impact. Besides white LEDs the luminaire uses UV3535 LED (UV-A + UV-C) chips with 2-in-1 function: sterilization and general illumination. Through our intelligent lighting control system haasCONNECT, the dual modes of sterilization and lighting can be freely alternated.

The UV-C LED panel owns a hypotenuse edge design with seamless welding process, white paint on the surface and antistatic treatment, which makes sure it is dust free and easy to clean. The spectrum of the LED panel in general illumination mode is completely free of ultraviolet radiation, meeting the requirements of health lighting. The LED panel can be mounted easily on a surface and there is no need to make a big change to the existing ceiling structure. The lifetime of the UV-C LED is up to 8000 hours which can help reduce maintenance costs significantly compared to traditional sterilization lamps. By using 6063 aviation aluminium frame with high thermal conductivity, the UV-C LED panel has a high heat dissipation rate which does not only reduce the light decay rate of the LED light source but also reduces the surface temperature of the enclosure.

# Features

- 2-in-1 function: Sterilization and general illumination
- Safe sterilization: sterilization rate up to 99%
- Able to sterilize mycobacterium, hand-foot-and-mouth virus, fungus, mites, spores, virus (flu, bird-flu, others...)
- Two color temperature adjustable
- UV3535 LED (UV-A + UV-C)
- Frameless design, 120° beam angle
- Ultrathin 12mm enclosure
- Efficacy (visible light): 110 lm/W
- Installation: Surface mounted
- CE and RoHS certified
- Intelligent & safe control with haasCONNECT Digital System
- Optional dimming functions through DALI
- Warranty: 3 years



# Technical data

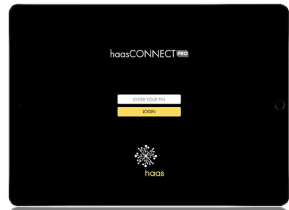
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- Material: Aluminium + 2.0T PMMA
- Size: 320\*620\*12, 620\*620\*12, 320\*1220\*12 mm
- General lighting: SMD 4014, 0.2 W, 27-29 lm, Ra: 80
- UV: SMD3535, UV-A + UV-C, UV-A: 390-400 nm, UV-C: 270-280 nm
- Sterilization rate: 99%
- Input voltage: 220-240 VAC
- Isolated LED driver, flicker- free, with DALI communication
- IP rating: IP44
- Protection class: Class II
- Lifetime:
  - General lighting: 50000 hrs
  - UV-C: 8000 hrs
- Operating temperature range: 20 - 45°C
- Storage temperature range: -20 - 65°C

# haasLEUCHTEN - intelligent control by haasCONNECT

haasLEUCHTEN

Sterilization & Disinfection

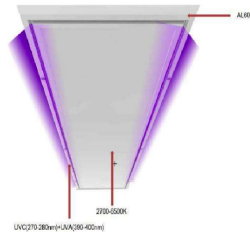


LAN



DALI

DALI

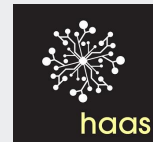


- Humans, animals, plants must not be exposed to disinfecting UV-C radiation
- Our digital lighting controls system haasCONNECT guarantees that UV-C radiation is only activated when there is no human being or animal present in the room to be disinfected
- All luminaires in the room are controlled through the DALI bus
- Proper exposure times can be adjusted through the system

# Applications

- Hospitals
- Healthcare facilities
- Clinics
- Pharmaceutical factories
- Medical malls
- Biological laboratories
- Precision processing plants
- Dust-free workshop
- Clean rooms
- Food factories
- Laboratories
- Offices
- Restaurants





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**Thank you.**

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

