



EcoLight
CLEAN TECHNOLOGY

COMPLETE
UV-C LIGHT
DISINFECTION SERVICES



BORN FROM A NEED OF
SECURITY

Our mission is to eliminate the risk of health and life threats by destroying deadly microorganisms.

Our technology is effective against pathogens, viruses and bacteria, thereby minimising the risk of infection.



EcoLight
CLEAN TECHNOLOGY

The expert team at LED-UK specialise in the savings and benefits of LED lighting for the commercial and business sectors.

LED-UK are now working in partnership with Eco Light LED to bring their UV-C disinfectant technology to UK businesses.

Eco Clean Light Technology is part of the company Eco Light LED - a manufacturer of LED lighting present within the European market since 2009. Eco Light LED lighting systems are dedicated to the logistics industry and the industrial sector.

Eco Light LED products and solutions are currently the lighting standard in many warehouse, logistics and production facilities across Europe. The Eco Light LED organisation focuses its activities around the latest technologies and draws on the experience and solutions of partners such as OSRAM and Signify.

PROTECTION

JOINT WORK

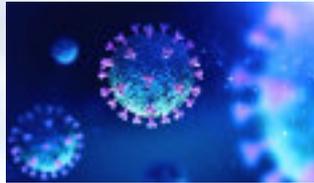
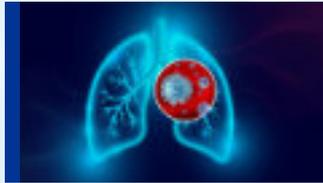
BEST RESULT



Hoping that your family, close friends and colleagues are healthy and well, we would like to support everyone in the fight against pandemics and use available technologies and our specialist knowledge in the field of UV light. Our services are currently targeted at all companies and institutions that may have a problem in their facilities with this dangerous virus, and indeed other micro-organisms, bacteria and viruses present and future

EFFECTIVENESS OF UV-C LIGHT

In the process of surface decontamination



UV-C light is part of ultraviolet radiation with a wavelength of 200 to 280 nm (specified in PN-90 / E-01005). It is a common method of conducting specialized disinfection mainly in medical facilities and food processing plants. Used to disinfect surfaces, air and water. The disinfecting effect consists in the penetration of high-energy particles of UV-C rays through the cell membrane of the pathogen. Then, as a result of the absorption of particles by DNA / RNA cell proteins, their structure is permanently damaged. This process is irreversible, which means that from that moment the pathogen cannot survive or reproduce.

The process described above is responsible for the elimination and neutralization of 99.99% of microorganisms, including pathogenic pathogens, with appropriate exposure to UV-C radiation.

The amount of UV-C radiation on a given surface ensuring effective disinfection is strictly defined. The effective radiation dose expressed in millijoules (mJ) per square centimeter (cm²) of the surface is 50 mJ / cm².

SOLUTIONS

DECONTAMINATION OF ROOMS

Decontamination is carried out based on devices equipped with lamps emitting bactericidal UV-C Light with a wavelength of 253.7 nm.

1. Diagnosis



A detailed diagnosis of the client's needs and familiarization with the documentation of the rooms planned for safe disinfection.

Import of data on the dimensions and arrangement of rooms.

4. Evaluation



The services performed are confirmed by a report with details of all rooms. UV-C dosimeters confirm the results in real time of the delivered dose of UV radiation for the registration and validation report.



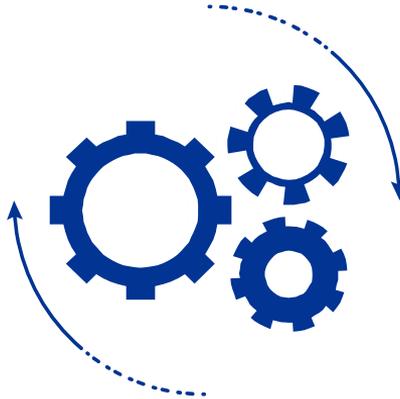
2. Disinfection Plan

Develop a disinfection plan for the rooms and the time the service was performed. Establishing security rules when performing the service.



3. Disinfection

Carrying out decontamination with UV-C light according to the planned process. Generating a report confirming disinfection.



SECURITY

In every place

Light disinfection is effective at properly selected intensity and wavelengths of UV-C light. The emitted UV-C light has a strong antibacterial effect. It is absorbed by microbial DNA, destroys its structure and inactivates living cells. Microorganisms such as viruses, bacteria, yeast and fungi become harmless thanks to UV-C radiation in a few seconds. At sufficiently high UV-C light, disinfection is reliable and environmentally friendly.



SPACE

Office and Social

Offices

Conference rooms

Areas of communication

Social facilities

Toilets

SURFACE

Manufacturing

Production Areas

Warehouses

Packing zones

Utility equipment



UV-C - Treatment

In Medical Facilities

Disinfection & Sterilisation are vital in medical and healthcare sectors around the world. UVC Wavelengths

The use of UV-C Light against the fight of SARS-CoV-2 is recommended by WHO & the Head of Polish Government Sanitary department. Disinfection robots are being utilised around the world. The robots emit UV-C light at 253.7 nm and neutralises 99.99% of bacteria within 10 mins.

Contributions to Increased Infections in Hospitals?

- Poor Cleaning Standards
- Incorrect sterilisation procedures
- Unauthorised personnel (visitors/non medical personnel)





SPACE OFFICE

A fully autonomous, mobile robot emitting UV-C light for infectious hotspots in different types of rooms.

Prevents and limits the spread of infectious microorganisms in the air and on surfaces.

The disinfection carried out increases the comfort of using the office space and ensures the safety of employees.

Areas of application

Offices, meeting rooms, conference rooms, corridors, canteen, toilets



Mobility

The robot is fully autonomous.

Effectiveness

The robot emits a precisely defined dose of UV-C light in a full 360 degree range around itself.

Evaluation

The disinfection report is generated automatically after each cycle and sent by e-mail to the correct recipient.



[SEE THE VIDEO](#)



Security

The device emits UV-C light in the 270 degrees range, while ensuring safety of use.

Effectiveness

The device uses lamps with a total power of 1000 W. The disinfection efficiency is 99.99%.



PRODUCTION & **WAREHOUSE**

An operator-operated device that emits concentrated UV-C radiation to infectious hotspots in various types of rooms. Prevents and limits the spread of infectious microorganisms in the environment, breaking down their DNA structure and preventing further reproduction. Safe and reliable and user friendly.

Areas of application

Usable areas, production halls, quality control zones, work stations, machine service zones



PERMANENT SYSTEMS **DISINFECTION**

UV-C lighting operating in the most important production spaces ensures constant biological safety.

Lamps turn on at any time and turn off when users appear in the room.

Cyclic room decontamination ensures employee safety and significantly reduces the risk of production stoppages.

The optimal time for full disinfection is from 8 to 24 hours, disinfection times can vary from as little as five minutes but it depends on the number of tubes in use and the outputs.

We can carry out a survey for you.

Areas of application

Offices, meeting rooms, conference rooms, corridors, production and storage halls



SECURITY

Lamps emit light with a wavelength of 253.7 nm - the most effective wavelength in eliminating pathogens

AUTONOMY

The lamps have IR motion sensors ensuring fully autonomous operation

ENDURANCE

The average lamp life is 9,000 h. This means that the lamps should be serviced every 4 years

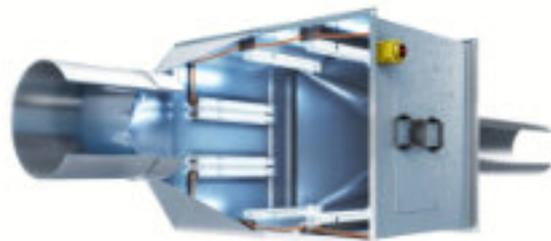


DISINFECTION **AIR**

Disinfection of ventilation systems is one of the key elements to achieve building biological safety. Ventilation systems are often the pathways of bacteria, viruses and other microorganisms. Polluted air moves between rooms increasing the risk of infection. UV-C air disinfection systems significantly reduce the risk of infection and reduce the level of discomfort caused by the respiratory system of people in the rooms.

Areas of application

Medical facilities, public spaces, industry, hotel industry, retail industry, offices



Fully autonomous system forcing air circulation in the building with built-in modules emitting UV-C radiation (253.7 nm).

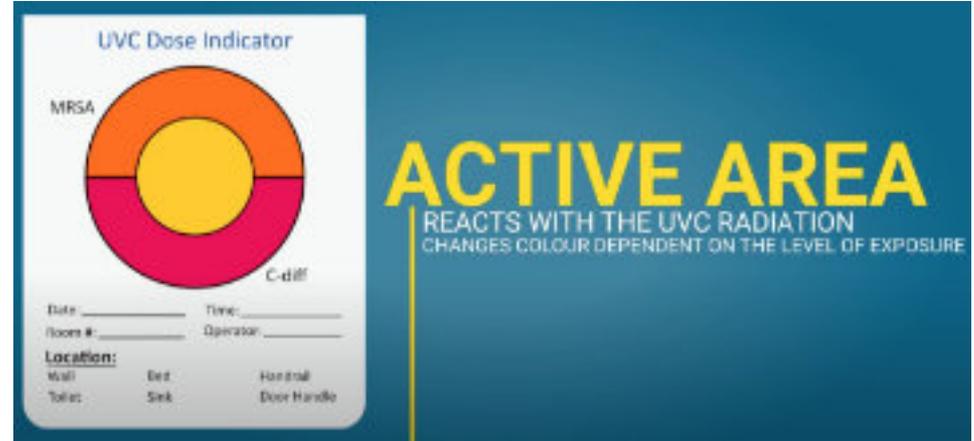
Long life UV-C module

Additional coating protecting UV-C light sources

EFFECTIVENESS OF DECONTAMINATION

To determine the dose of UV-C radiation emitted in a room, we use UV-C dosimeters.

We confirm the performed services with a report detailing the course of disinfection in all rooms.



SEE HOW THE UV-C
DOSEMETER WORKS



"The colorimetric indicators provide an easy means to monitor UV-C dosing."

Sources:



[DOWNLOAD](#)

A list of bacteria, viruses and fungi that UV-C light kills

Dr Władysław Kowalski has published over 40 articles and several books on topics related to healthcare technologies, including his most-cited book, The Ultraviolet Germicidal Irradiation Handbook (Bactericidal Ultraviolet Radiation Handbook, 2009).

EN - Document in English



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Statement on the effectiveness of UV-C light in the fight against coronavirus

Professor Dr. Val Edwards-Jones - licensed scientist, member of the Institute of Biomedical Science, retired professor of medical microbiology at Manchester Metropolitan University, director of Essential Microbiology Ltd. - issued a statement confirming the effectiveness of UV-C light in the fight against Coronavirus.

EN - Document in English



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Studies on the dose of UV-C radiation required to deactivate bacteria, protozoa and viruses

Report updated and extended by Adel Haji Malayeri, Madjid Mohseni, Bill Cairns and James R. Bolton from the Faculty of Chemical and Biological Engineering, University of British Columbia, Vancouver, BC, Canada

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THANK YOU



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