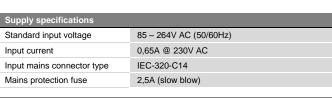
DATASHEET

Medical grade deep UV disinfection system with UV-C type LED modules



Protections Door open Reed switch **Emergency Stop** Push emergency stop button Over temperature Fan cooled LED devices

UV dosage control	
Programmable timer	User specified
Standard profile timer	5 preset profiles
Medium UV Irradiance	138,1 mW/m ²
Maximum UV Irradiance	286,2 mW/m ²
Predominant wavelength	275 nm
Number of light sources	2 beams with 12LED each

Communication interfaces USB - Serial port (Internal) FT232 TTL transceiver (FTDI, Inc.) 9600 Baud rate 8 Data bits Parity none Flux control none Stop bits 1

User interfaces	erfaces	
LCD	LCD Display (2x16 Char) active matrix	
POWER LED	Power LED (Green color)	
ACTIVITY LED	Activity LED (Yellow color)	
UVC-ON LED	UVC LED ON (Blue color)	
5KEY KEPYAD	Embossed 5key keypad	

Environmental specs	
Protection grade	IP20
Ambient temperature	-10°C to 80°C
Relative humidity	0 to 90% non-condensing

Safety standards		
2014/35/EU Low voltage directive with harmonized standards		
IEC EN 61000-3-2	Electromagnetic compatibility (EMC) - Limits	
IEC EN 60335-1	Requirements for safety of household appliances	
IEC EN 61000-6-2	EMC Immunity for industrial environments	

Physical dimensions (mm)	Physical dimensions (mm)		
Width	600		
Height	450		
Depth	450		
Weight	10Kg (Approx.)		



Like all viruses, the corona pathogen SARS-CoV-2 can only reproduce with the help of a host. Cells infected by the virus are "reprogrammed" by its ribonucleic acid (RNA) to produce new viruses. These are then released in the body and infect other cells. The host cells are destroyed by the reproduction process, which causes disease in the host body. Since each virus only attacks certain cell types, different disease patterns are triggered; in the current epidemic, for example, the respiratory organs are affected.

UVC is high-energy, short-wave radiation in the wavelength range between 100nm and 300nm. In the range of from approximately 250nm to 290nm, it is absorbed by the RNA strands of the viruses.

This ensures that in the pyrimidine bases — thymine and cytosine — neighboring molecules "clump" together'. This prevents the cells from reproducing or even kills them. In either case, the virus is no longer dangerous because it only causes damage when it

The natural UVC radiation of sunlight is absorbed by the ozone layer of our atmosphere. Therefore, neither organisms nor viruses have developed protective mechanisms against it. Irradiation with artificially produced UVC is, therefore, a particularly effective method of sterilization and disinfection

Medical grade deep UV disinfection system, it was conceived, to follow the SARS CoV-2 disease control, in objects or personal protective equipment.

The equipment concerns in a sterilization camera, protected against radiation emission to the outside of the camera to avoid human exposure to UVC light.

The main application of this end equipment are fundamentally the viruses cleaning and industrial sterilization in hospitals, nursing homes, healthcare clinics, hotels, offices.

This product is intended exclusively for industrial or professional customers who are trained in the use of UVC radiation and can ensure hazard-free use, every device used should be flagged with special labels.

UVC radiation is extremely aggressive to human body and eyes, any contact with light source must be avoid

Further information can be found in:

https://advanceprobe.pt/covid-19

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