



DhonaadhiTM
Hitec Innovations

COD-R

UVC PORTABLE SURFACE STERILIZER

CHEMICAL-FREE DISINFECTING AND SANITIZING OF ANY SURFACE



UV Sterilization Lamp

- Kill Bacterial and Remove Odors

COD-R

UVC PORTABLE SURFACE STERILIZER

COD-R is surface sterilizer for industrial and business use. It is equipped with a powerful UV-C lamp, emitting 250 to 300nm wavelength. This device will effectively and efficiently decontaminate surfaces from viruses, molds and bacterias. This device offers a quick and easy way of sanitizing the surfaces.

The user slowly passes the device closely over the contaminated surface area, allowing the energy from the high output sterilizer to rapidly and efficiently decontaminate surface. The UV-C disinfection sterilizer is a fast-acting, portable method of decontaminating tabletops, walls and other surfaces.

Germicidal ultraviolet (UV-C) light deactivates the DNA of bacteria, virus, and other pathogens — destroying their ability to multiply and cause disease. Specifically, UV-C light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such bonds prevents the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies.

SPECIFICATIONS:

- ON/OFF Switch.
- Lamp Type – UV-C LED.
- 250nm to 275nm Wavelength.
- LED Driver Inbuilt.
- Power Source 120/230 VAC, 50/60Hz
- Power Rating: 5W / 9W
- Lamp life 20000 hours continuous operation.
- Operation Modes Indicated by LED.
- 1 Min to 60Min auto OFF control
- Lamp safety guard.
- 40 Sec on Timer

BENEFITS:

- Kill and inactivates 99.9% harmful surface microorganisms that contribute to the spread of infectious diseases, viruses, mold and bacteria including: C- diff, MRSA, TB , E.coli salmonella , CRKP, VRE, cold, flu and measles.
- Produces no ozone or other secondary contaminates.
- Portable, versatile and easy- just plug in and use.
- Includes long-lasting UV lamp with 20000 hours lifespan.
- Use products and equipment where chemicals and liquids cannot be used.
- Inexpensive to operate.



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PART NO	WATTAGE	Distance (cm)	DOSE Exposure Time (MIN)	UV DOSE (J/cm ²)
COD-R10	10W	10	10	4.02
COD-R20	20W	10	10	8.04
COD-R30	30W	10	10	12.06
COD-R40	40W	10	10	16.08
COD-R50	50W	10	10	21
COD-R80	80W	10	10	33.06
COD-R100	100W	10	10	40.2

The [COD-R](#) can be used for the following environments or wherever microbial disinfection is required:

- Nursing Homes
- Outpatient Surgery Centers
- Physicians Offices, Ambulance
- Patient Rooms, Waiting Rooms
- Testing Laboratories
- Ventilatory Clinics & Kennels
- Passenger Flights And Bus And Train
- Schools-classrooms, Food Processing
- Detention Centers, Homeless Shelters
- Shopping Complex, Movie Theaters
- Hotel Rooms, Lockers Rooms

COD-R

Target Dose Chart to Deactivate Germs

Microorganism	D99% Dose Required (micro watt-sec)	Time to reach D99 Dosage in Minutes Direct Distance to Surface in feet		
		5FT	10FT	15FT
VIRUS				
Influenza A (flu)	4,558	2	3	5
Coxsackievirus (hand , foot , mouth disease)	16,250	5	10	15
Herpes Simplex	7,453	3	5	10
BACTERIA				
methicillin-resistant Staphylococcus aureus	7,106	3	5	10
Carbapenem-resistant Klebsiella pneumoniae	11,000	4	7	12
Escherichia coli(E-coil)	3935	1	2	4
FUNGAL SPORES				
Cladosporium spores	121,188	30	50	80
Aspergilli's Niger spores	317,598	70	120	225
Candida Albian's	81,554	20	30	60

UV SAFETY

Ultraviolet (UV) MPE's Maximum Permissible Exposure

UV REGION	WAVELENGTH	MPE(MAXIMUM PERMISSIBLE EXPOSURE)
UV-A	315 - 400 nm	1mW/cm2 8 hrs
UV-B	285 - 315 nm	500 uW/cm2 1 min
UV-C	100- 285 nm	100 uW/cm2 1 min

PRECAUTION: Operator should avoid direct skin and eye contact with UV light. Protective eye wear and skin protection is recommended when using the COD-R unit.