

UV-C JUGNU

Smart Robot for UV Disinfection

UV disinfection trolley can effectively clean up hospital spaces to combat COVID-19 – Department of Science and technology, Govt of India.

The UV-C irradiation with peak intensity at 254 nm has been a proven technology for disinfecting air, water and instruments for over a century.

UV-C JUGNU – The mobile ROBOT from JanyuTech - National Innovation Award winning Robotic Company, is powered by UV-C lamps from

Aeropure - ONLY Indian manufacturer of High Output UV-C Quartz lamps for the last 20 years.













UV-C JUGNU is a remotely operated mobile robot, fitted with UV Disinfection Lamping system(254 nm).

Key Features:

360 degree UV-C illumination

360 degree Safety Sensors with multilayer safety Robot Speed:

Nominal speed: Upto 1 meter/sec

Disinfection speed: 5-10 centimeters/sec

Remote operations from Windows/Android controllers

In-built Wifi

Cameras and Collision avoidance systems for

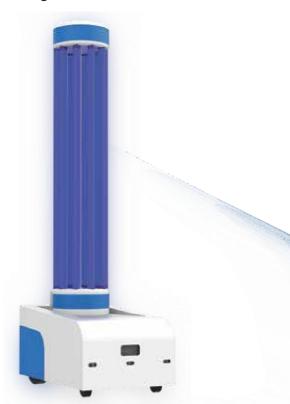
Advanced User Assistance

Cloud based Data logging and Disinfection ana-

lytics for Premium usage

Optional Battery and Cabled versions

UV-C JUGNU has a WiFi connected with a camera to get live Audio-Visuals of the path to the control station and interact along with the travel, announcing various messages. The Robot has a power selection option to increase the intensity of the UV system. Obstruction sensing is provided at the front and back for effective driving.



UV-C JUGNU: UltraBlaster

This is a Remotely operated robot fitted with UV-C Disinfection Lamping system with Inbuilt Batteries, "UV-C JUGNU: UltraBlaster" is ideal for disinfection of larger areas, factories/shop floors, and public places.

Dimensions: 85 cms * 50 cms * 1800 cms

Weight: 85 kgs

UV-C Wattage: 768 Watts

Interactive Touch Screen & Joystick based

operator controller

Power:

Battery Endurance: upto 120 mins on continu

ous UV-C operation

Rechargeable Lithium Ion Batteries.

Swappable Spare batteries for continuous

operation.

UV-C JUGNU - SuperBlaster :

This is a Remotely operated robot fitted with UV Disinfection Lamping system. With a 30 metre long cable, these are ideal for office spaces, households, commercial complexes.

Dimensions: 45 cms * 45 cms * 1200 cms

Weight: 25 kgs

UV-C Wattage: 450 Watts

Interactive Touch Screen & Joystick based operator controller / Mobile phone based application

application

Power:

230 V 50 Hz AC

Cable Tether: upto 30 metres



UV-C Fact Sheet

The dosage required for disinfecting COVID-19 virus (SARS-CoV-2) and comparable viruses in the same SARS virus family around 10-20 mJ/cm2.

Using direct UVC light at a wavelength of 254nm; this dosage will achieve 99.9% disinfection (i.e., inactivation) under controlled lab conditions.

In real life conditions, this can be considered to achieve 90% disinfection.

UV dosage : μw sec / sq.cm. = μw intensity per sq.cm X time exposed in sec

#Experimentally Validated Data	UV-C JUGNU: 768/B:UltraBlaster	UV-C JUGNU: 450/C:SuperBlaster
Shatter Proof, Weather proof, High Output Quartz UV-C 254 nm Lamps with 10,000 hrs life		
UV-C254nmLamp Wattage/Lamp	96 Watts	75 Watts
Number of Lamps	8	6
Total UV-C Wattage / system	768 Watts	450 Watts
Exposure Time for Log0(90%) disinfection : 22.6 mJ/cm^2 (for 150 sqL area)	90-100 seconds	170-180 seconds
Exposure Time for Log1(99%) disinfection : 45.2 mJ/cm^2 (for 150 sqL area	190-200 seconds	350-360 seconds
User Operation	User Console with interac- tive Windows/ Android Application	User Console with interactive Windows/ Android Application
Robot Operation Safety	a. Remote operatingrange of >20 metres b. 360 degree sensors for human/pet safety c. Audio & Visual Safety Alarm d. 2 Level Authorization & Security to operate machine and UV lamp	a. Remote operating range of >10 metres b. 360 degree sensors for human/pet safety c. Audio & Visual Safety Alarm d. 2 Level Authorization & Security to operate machine and UV lamp





Superior UV- C lamps

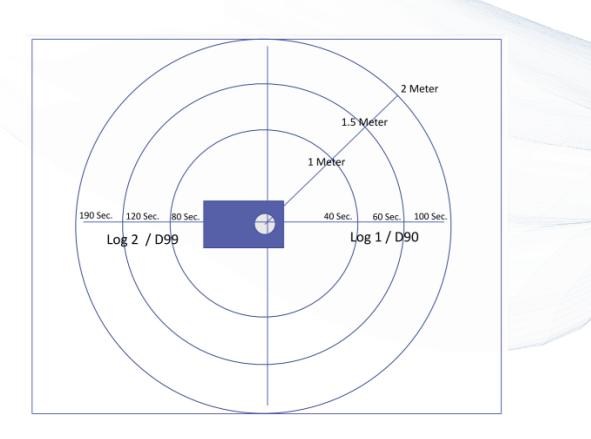
Our AEROPURE UV Lamps are 100% indigenously made.

Instant start, Low –pressure mercury filled lamps made out of Quartz glass.

Our UVGI Systems are Green "GreenPro" Certified System by IGBC.

Our UV lamps are shatter-proof, even if the lamp breaks for any reason the glass pieces are not spilled over because of the specially designed shatter-proof construction.

Cheaper UV lamps made of SoL glass are weaker and give very less UV transmittance compared to our Quartz lamps



UV-C JUGNU Ultra Blaster Disinfection Performance Data

JANYU TECHNOLOGIES PVT LTD

No.17, Building No.6, Raj Prbha Industrial Estate Bhoidapada, Behind TATA motors Show Room.. VASAi East 401208, Palghar Dist,. Maharashtra, Emal sales@janyutech.com.