

AIR ANGEL

Aircraft Cabin Germicidal Disinfection Robot



September 2020 Product Sheet

Health Through Innovation

AIR ANGEL

A unique product employing the latest germicidal ultraviolet technology coupled with innovative robotics.

Disinfection of aircraft cabins autonomously or by remote control reducing risk whilst protecting reputation. A typical disinfection cycle of an Airbus A320 aircraft takes approximately 12 minutes.

Ultraviolet Light for Disinfection

Traditional cleaning methods are labor intensive and normally use chemicals, Ultraviolet light leaves no residue on surfaces and completes a disinfection in minutes.

Ultraviolet light has been employed in the health sector for disinfection of operating theaters for many years, also it has been used globally for water purification.

But not all Ultraviolet lights are the same, sun tanning tubes for example operate at a different wavelength and do not afford germicidal properties, the Air ANGEL uses only ultraviolet light in the short wave(254nm) with its germicidal properties.

Viruses and Pathogens

Ultraviolet-C attacks the DNA and RNA bonds of all viruses, bacteria, mold, etc. To date there is no known pathogen or bacteria that are resilient to germicidal UV-C. effective against influenza A, MERS, Covid SARS, E. coli and many more.

Industry-Leading Features

The AIR ANGEL provides control via a tablet and has built in disinfection protocols for individual aircraft, after initial mapping the operator selects aircraft type from menu and presses start, the AIR ANGEL then conducts the disinfection process automatically.

In the same way that Ultraviolet light is dangerous to viruses and bacteria it can also be harmful to humans, hence our robotic platform removes this risk, complete with human detection algorithms the system initiates a shutdown on detection of a human during the disinfection cycles.



SYSTEM FEATURES

- Battery operated.
- Autonomous and remote control.
- Safety shutdown on detection of human presence.
- Uses non ozone generating lamps.
- Pre-installed aircraft map feature.
- Generates report logs.
- Health and Usage Monitoring.



Subject to change without notice.

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Ultraviolet Germicidal Disinfection Robot



CHARACTERISTICS		
Power	24v dc	
Battery	100Ah	Lithium Ion with smart balance
UV-C lamps	28	Germicidal 254nm
Wattage	1100w	Combined power of all lamps
Fluence rate at 1m	9600mJ/cm2	Fluence rate based on standard 127w lamp
Charge time	2-3 hours	
Operational duration	3-5 hours	
Disinfection time *typical	10-30mins	*Times will vary with cabin size and complexity
Control	Tablet based software.	Autonomous and remote control
UV-C safety shutdown	Fitted	Camera and algorithm
Emergency stop	Physical stop button	Software defined stop button
Hazard Beacon	Fitted	Standard orange
Obstacle detection	Fitted	Lidar

WEIGHT & MEASURES	
Weight	97kgs
Length	981mm
Height / Width	H:472mm W:456mm
UV-C Tower	1310mm

OPTIONAL EXTRAS	
NG-UVC-254-PB	UV-C Test meter
NG-UVC-QC	Quartz lamp cover
NG-UVC-SO (Default supply)	STD output tower
NG-UVC-HO	HIGH output tower



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