



**STAVIOR**

By Cenaura Technologies

Decontamination of all surfaces and equipment at the hospital facilities is of utmost importance to prevent Hospital Acquired Infections (HAI)

[www.stavior.com](http://www.stavior.com)

# Help Us Keep You Safe

The Healthcare sector is at the receiving end of the ongoing Covid 19 pandemic



Hospitals across the world need help with fighting against coronavirus. Historically, the risk for hospital-acquired infections has never been higher compared to now



Hospitals are faced with the challenges of keeping hospitals operational while ensuring the patients, doctors, nurses and staff safe and protected from coronavirus and other dangerous pathogens



Adding treatment with UV-C into cleaning routines can help to effectively kill bacteria and pathogens and reduce HAI rates



# About Us

Stavior is a business unit of CENAURA Technologies Pvt. Ltd., Offers UV based clean environment and workforce safety solutions for Education, Hospitality, Offices, Retail, Transport and Hospitals. CENAURA Technologies Pvt. Ltd is an ISO 9001-2015 certified company with rich experience in smart controlled automation products and technologies.

Stavior has introduced a wide range of ultraviolet sterilizers to help hospitals to prevent surface and airborne infections across the patient wards, nurse wards, operation theatres, intensive care units, and testing labs.

## Smart Sterilizer Mobile

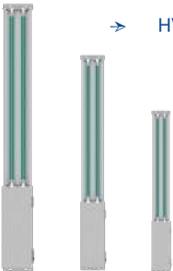


→ Topline Mobile Sterilizer Automatic



→ Slimline Mobile Sterilizer Automatic

## Smart Sterilizer Airstream



→ HVAC Airstreams



→ HVAC Airstream Sterilizer In-Duct

## Smart Sterilizer Upper Air



→ Upper Air Ceiling



→ Upper Air Floor



→ Upper Air Desktop

# Stavior Smart Sterilizer Series

## for 360° Decontamination

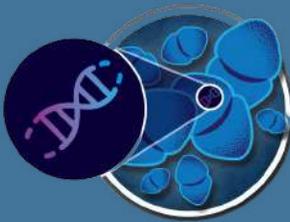
**Smart Sterilizer Series** provides an effective 360° decontamination method for the inactivation of aerosol-based microorganisms and contaminated surfaces.

There are many types of uvc system, which use the same basic principal but different application method. Our inspection team can help you select the best option for the building from following :

-  Surface disinfection (Stationary & Mobile)
-  Upper-air disinfection (Stationary & Portable)
-  HVAC Air Stream disinfection (In-Duct and Cleaning Coil)



The Ultraviolet spectrum of light is a reliable and effective decontamination technology that can destroy various microbial types. The 254nm wavelength of the UV spectrum, commonly known as UVC, is the most effective energy segment in this process.



The technology works by destroying the genetic material inside bacteria, viruses, yeast, fungi, and parasites. The structure of DNA or RNA in the microorganism's cells breaks down and subsequently, the genetic material chain consisting of the nucleic acids and proteins gets damaged, killing the regenerative cells.

Incomplete or insufficient cleaning of surfaces most commonly in contact with patients can contribute to infection rates. In fact, it is estimated that 20-40% of HAIs result from transmission of pathogens by a healthcare worker after touching another patient or a contaminated surface.

UVC is helping overcome the challenges of keeping the hospital staff, doctors and patients safe globally

# Proven Efficacy Against **CORONAVIRUS**

The tests were conducted at ATAL Incubation Center, Center for Cellular & Molecular Biology (CCMB), Hyderabad.



## Effective Sterilization

Continuous cycle, air quality triggered sterilization  
Four stages sterilization for safe habitation zones  
Ensures proper filtration, sterilization, and comfort



## Intuitive Experience



Single rotary control knob for intuitive operation  
Built-in particulate sensor for automatic level control  
High contrast LCD screen for easier viewing



## Powerful Zapping

Uses the most effective 254 nm wavelength  
High pathogen kill rates of up to 99.99%  
Rapid fluence rates for fast air changes in the area



## Uses of UVC Light in Hospitals

- Proven efficacy against Coronavirus
- High Efficacy
- UV-C helps cover surfaces wipes and chemicals may miss.
- UV-C can help meet patient expectations for cleanliness.
- Helps reduce Hospital Acquired Infections (HAI)
- Decreased likelihood of cross contamination
- Reduces risk of liability
- Reduces length of hospital stays
- Improves indoor air quality, protecting hospital staff and patients
- Reduced energy consumption
- Easy to operate and maintain
- Safe, eco-friendly and affordable

# Smart Sterilizer Mobile

The **Smart Sterilizer Robot** navigates through indoor spaces managed by remote controlled device or autonomously using onboard sensors, sterilizing the spaces they pass through. Smart Sterilizer Robot delivers an automated, measured dose of UVC to consistently disinfect a room from one position, eliminating human error and documenting disinfection results for each cycle. Smart Sterilization robot compensates for room variables such as size, shape and contents to deliver the precise, lethal dose of UVC needed.

## Highlights

-  Infrared sensor for human safety
-  Built-in collision detection by obstacle avoidance
-  Automated room size calibration
-  Effective 360° decontamination
-  Built in Battery for cordless operations

After the routine cleaning of the hospital premises has been completed, the Sterilizer Robot is deployed. After the disinfection, the robot signals that the disinfection has finished. The robot is now ready to disinfect a new room that the patients most commonly come in contact with high infection rates.



→ Topline Mobile Sterilizer Autonomous



→ Slimline Mobile Sterilizer Automatic



→ Slimline Mobile Sterilizer Autonomous



↑ Topline Mobile Sterilizer Automatic

## Effectiveness of UVC Light

Time Required (seconds) for deactivation of viruses and other dangerous pathogens including SARS COV2

	Time (99% Reduction)	Time (99.9% Reduction)	Time (99.99% Reduction)
Bacteria	1.5 - 3.5 mins	3-7 mins	6-14 mins
Viruses	3.5 - 5 mins	7.0-10 mins	14-20 mins
Yeast	5.0 - 7.5 mins	10-15 mins	20- 30 mins
Algae	7.5 - 10 mins	15-20 mins	30-40 mins
Fungus	10 - 15 mins	20-30 mins	40-60 mins

# Smart Sterilizer Upper Air

Upper-Air disinfection is a method typically used for occupied spaces at least 7 feet tall, where the walls and ceilings have a low UV reflectivity. The Upper-Air series in-room air treatment fixtures are designed specifically for safe, continuous air disinfection, which helps clean the air in occupied spaces.

Upper Air UVC fixtures are recognized and recommended by the CDC, WHO, and ASHRAE as effective solutions for the mitigation of airborne pathogen transmission. This comes with three stage filtering: Dust filter, Activated Carbon filter, HEPA filter.

## Highlights

-  Improve Indoor Air Quality (IAQ) by reducing bio-aerosols and airborne bacteria, viruses, and fungi
-  Provide an extra layer of protection, local to the threat, in busy high traffic occupied spaces
-  Operate 24/7 with little OR no maintenance
-  Produce no ozone or other secondary contaminants
-  Louvered units operate silently; fan assisted units operate at very low decibel levels
-  Suitable for poorly ventilated areas on 24/7 basis
-  Multi model units to suit multiple needs



→ Upper Air Sterilizer Floor



→ Corner Upper Air Sterilizer



→ Upper Air Sterilizer Desktop



→ Upper Air Sterilizer Ceiling



→ Upper Air Sterilizer Wallmount

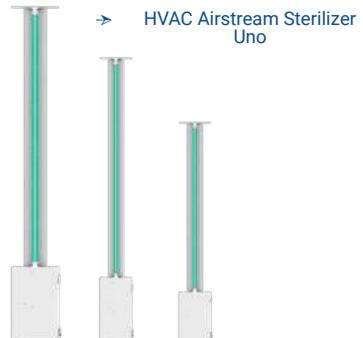
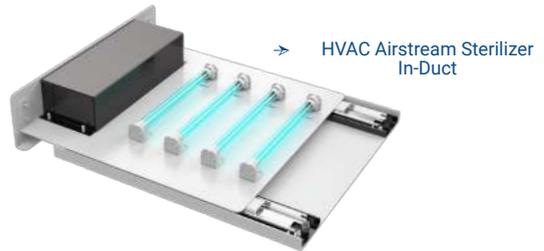
# Smart Sterilizer Airstream

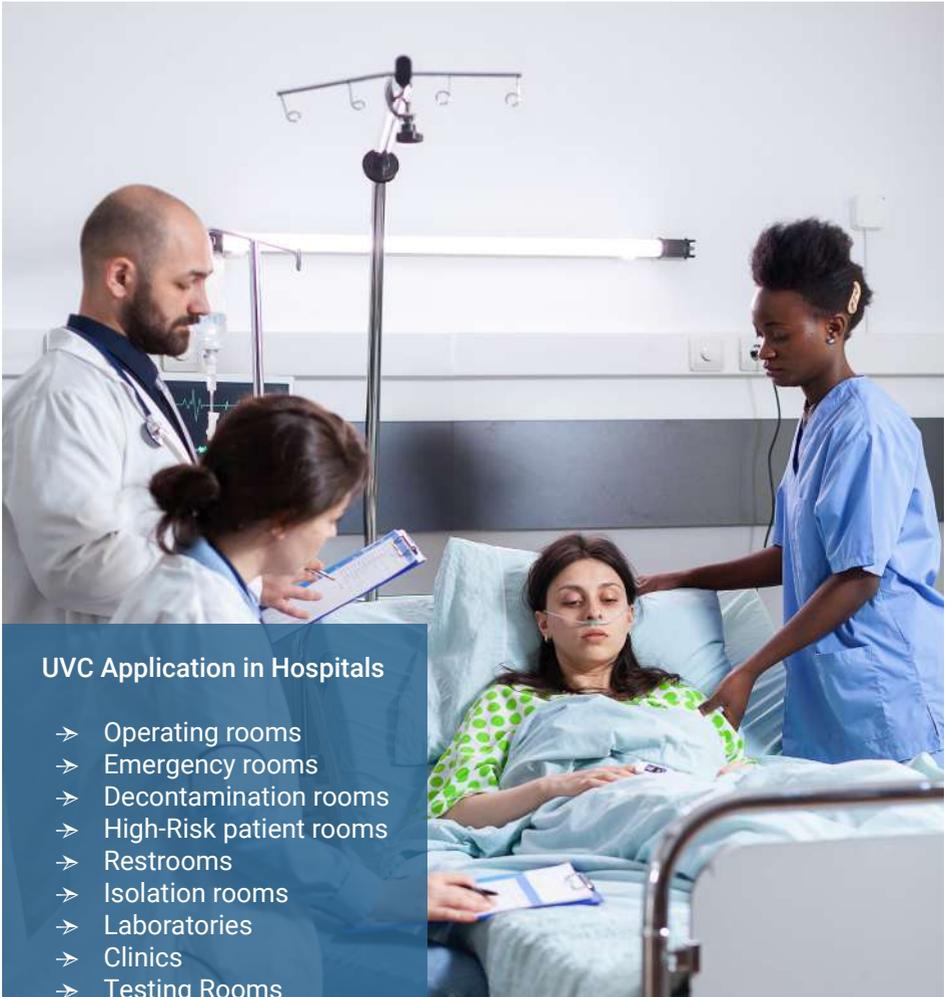
The **Smart Sterilizer Airstream** range has been designed to be installed inside of ducts, facing cooling coil or cassette AC's and air handling units (AHU). This range is versatile and can accommodate different potential AHU sizes and duct dimensions along with different airflow requirements. Smart Sterilizer Airstream is a well suited to large ducts and high air flows. They sterilize the airstream continuously there by sterilizing the air for a healthy occupancy area.

When deployed on the cooling coils the UVC also results in the elimination of accumulated biofilm leading to better air circulation and lower power consumption.

## Highlights

-  Motion sensor
-  Quartz sleeves for protection from external elements
-  Protects the HVAC cooling coil from fungus deposits
-  Reduces power consumption
-  Improves AC efficiency





## UVC Application in Hospitals

- Operating rooms
- Emergency rooms
- Decontamination rooms
- High-Risk patient rooms
- Restrooms
- Isolation rooms
- Laboratories
- Clinics
- Testing Rooms
- Waiting Areas
- Corridors
- Cafeterias

State of the art UV-C technologies offer portability and compact footprints facilitating terminal cleaning and daily use, helping to minimize the build-up of pathogens over time.

In the battle against HAIs, UV-C technology can help hospitals increase the strength of their cleaning system, promote safety and satisfaction for patients and curb the financial burden of lengthy patient stays.



## Our Clients



Akarui Solutions LLP  
Mumbai



Credence Resource Management, LLC  
Pune



eClerx Services Limited  
Chandigarh



Fintrust Advisors  
Where Finance Meets Trust

Hyderabad



Hyderabad



iSprout Business Centre  
Hyderabad



iSprout Business Centre  
Chennai



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SELFMADE

SELFMADE SOFTWARE PRIVATE LIMITED

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CENTRE FOR CELLULAR  
& MOLECULAR BIOLOGY



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CONTACT US



+91 7993351666



contact@stavior.com

HEAD OFFICE

Cenaura Technologies Pvt Ltd #201,  
Sree Homes, MB Society, Plot No 51,  
Khanamet, Madhapur, Hyderabad -  
500084



REGD. OFFICE

Cenaura Technologies Pvt Ltd  
FT- 3G, Block A, Jain Srikar,  
Auroville, Khanamet, Madhapur,  
Hyderabad - 500084