



**Kepri UVC Upper-Air  
Disinfection System**  
Safe & Effective UVC LED Light Source



Safe & Effective Room Air Disinfection

**EXCELITAS**  
TECHNOLOGIES®

# Kepri™ UVC Upper-Air Disinfection System

## The Evolution of UVC Disinfection Technology



The first ever LED-based UVC light disinfection system, the Kepri™ UVC Upper-Air Disinfection System provides safe, effective, real-time disinfection of upper-level room air regardless of room occupancy. Kepri's potent UVC energy is effective against a wide range of pathogens including bacteria, mold and viruses such as those that cause COVID-19. The Kepri's truly unique design allows for safe and effective room air disinfection.

## The Upper-Air Concept

The Kepri Disinfection System irradiates the upper atmosphere of a room with UVC light allowing for safe disinfection even when the room is occupied. As pathogens pass through the active UVC disinfection zone, the UVC light damages the pathogens' DNA/RNA, preventing its ability to replicate and effectively inactivating its ability to infect and spread.

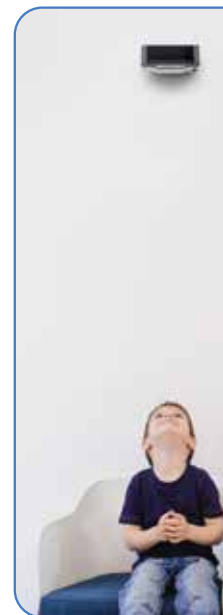
This continuous disinfection offers higher levels of effectiveness when compared to other air germicidal treatments. Natural



convection within a room ensures proper distribution of air into the UVC emission zone for thorough disinfection in 60 minutes to 99.9% (log 3).

## Easy Installation

Weighing only 4.5 lbs (2 kg), the Kepri Upper-Air Disinfection System is easy to install using the adaptable mounting plate with 110-240V wall plug/cable. The compact, low-profile design affords unassuming installation in a wide variety of spaces. It features silent operation and a dust free optical chamber design to minimize maintenance requirements and ensure maximum UVC emission.





## Occupant-Safe Operation

As safety is critical in UVC disinfection, Excelitas sets the industry standard with a three-tiered sensor monitoring system to ensure safe operation, even in fully occupied rooms.

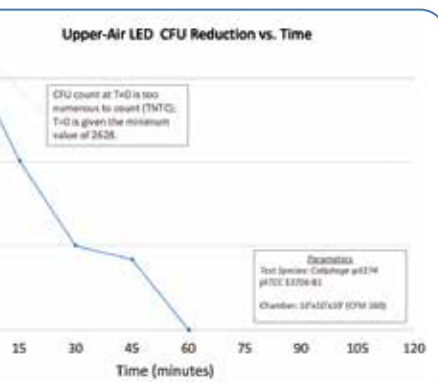
- **Tilt Sensors** monitor direction of UVC emission and immediately shut off operation if the emission field settles below 0° threshold of level horizon
- **Motion & Presence Sensors** detect anyone entering or remaining in the UVC emission field (i.e., changing a lightbulb on a ladder) and immediately shuts off the unit until the UVC emission field has remained clear for 15 minutes.
- **Selective Operating Modes** enable the user to set their Kepri operating preference: Always ON; only ON when room is occupied; or only ON when room is unoccupied.



Additionally, because Kepri is the only LED-based UVC disinfection system on the market today, it operates without any potentially toxic Mercury (Hg) and without emitting any harmful or environmentally unfriendly ozone gas.

## Effective Pathogen Elimination

The Kepri Upper-Air System has been third-party tested by Inter-tek for efficacy against the test pathogen Coliphage  $\phi$ X174, which has a greater UV resistance than the SARS-CoV-2 virus that causes COVID-19. Testing showed a 99.9% (3 log) reduction in 60 minutes and a 90% (log 1) in 15 minutes covering a 3m<sup>3</sup> (10 ft<sup>3</sup>) room. Historical and preliminary data shows effectiveness of UVC disinfection over a wide range of pathogens, including viruses, bacteria and fungi.



## Features & Benefits

- UVC LED light sources offer immediate on-off
- Presence detection with 3 operating modes
- Integrated tilt sensor ensures upward UVC emission
- Presence sensor shuts off UVC if someone enters emission field
- Environmentally friendly... energy efficient with no Mercury or ozone emission
- Dust-free optical chamber minimizes maintenance
- Compact and light-weight
- Adjustable mounting bracket
- Replaceable LED light source
- Custom options available

## Effective Air Disinfection for

- Hospitals & pharmacies
- Medical & dental facilities
- Long-term care facilities
- Childcare centers
- Classrooms & lecture halls
- Offices & conference rooms
- Retail shops & malls
- Restaurants & bars
- Theaters & casinos
- Airports & train stations
- Cruise ships & hotels
- Indoor sporting venues
- Gyms & locker rooms
- Food processing plants
- Manufacturing facilities



## About Excelitas Technologies

Excelitas Technologies Corp. is a global photonics technology leader focused on delivering innovative, high-performance, market-driven solutions to meet the lighting, optronics, detection and optical technology needs of our customers. Serving a vast array of applications across biomedical, scientific, safety, security, consumer products, semiconductor, industrial manufacturing, defense and aerospace sectors, Excelitas stands committed to enabling our customers' success in their end-markets. Our worldwide team consists of 7,000 photonics professionals working across North America, Europe and Asia.



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