

# UV Health Group Product Spec Sheets

## Spec Sheet: Confidence™ LED 2X4 Lighting Troffer

**Energy-efficient LED light fixtures certified to kill COVID-19 viruses in the air while people are in the room.**

### UV Health Group Inc.

Our experienced team of designers, engineers and scientists have developed powerful and effective solutions for clearing airborne viruses, including SARS-CoV-2, the cause of COVID-19, from indoor air. Our patent pending SafeAirUV™ System uses strong UV-C LED lights to inactivate airborne pathogens inside a sealed chamber, out of view of people, providing cleaner and safer air in environments where customers, staff, and residents are present. Businesses, assisted living, hospitals, schools, and airlines can now invite people to safely enter their environments with confidence that their air is continuously being made safe, slowing the spread of this pandemic, as well as any virus mutations, the common cold, and all seasonal flus.

### SafeAirUV™ System

The SafeAirUV™ System is designed to continuously cycle room air through its sealed chamber which is filled with an array of UV-C LED lights, inactivating virtually all viruses with multiple room air changes per hour. The SafeAirUV System has been integrated into the Confidence™ family of commercial lighting fixtures. The Confidence™ LED 2X4 Lighting troffer fixture will clear the air of infectious viruses in an 800-cubic foot room within minutes. It has been known for many years that UV-C light will inactivate viruses. The SafeAirUV System utilizes the most powerful germicidal wavelength UV-C LEDs. (275nm). This new or retrofitted troffer is perfect for essential gathering places negatively affected by the COVID-19 global pandemic - with the additional benefit of eradicating viruses that cause seasonal flus and the common cold.

### Proof through science

**Testing results prove efficacy through science** - The SafeAirUV System was tested in the fall of 2020 using live aerosolized SARS-CoV-2 virus in a highly controlled environment at the University of Missouri's Level 3 infectious disease laboratory. Results consistently and conclusively demonstrate that the SafeAirUV System™ inactivates 99.9996% of the infectious doses of the COVID-19 causing viruses in the air in a single pass through the SafeAirUV System.

Research report is available at [www.uvhealthgroup.com](http://www.uvhealthgroup.com).

### Confidence™ LED Lighting – A Family of Fixtures

The UV Health Group family of Confidence™ LED Lighting Fixtures offer highly efficient and programmable LED lighting fixtures and include the SafeAirUV™ System. This collection includes ceiling and wall fixtures, over bed and hanging strip lighting fixtures, delivering the wonders of LED downlighting with the increased confidence of virus-free air. Each fixture is available as new or replacement fixtures and retrofit kits - combining the beauty and health advantages of LED room lighting with the COVID-killing power of the SafeAirUV System, the Confidence™ LED lighting products deliver a terrific value for most indoor environments – *Safe Air Where Life Happens!*



## Introducing: The Confidence™ LED 2X4 Lighting Troffer

The Confidence™ LED 2X4 Lighting Troffer combines adjustable, programmable LED downlighting with the SafeAirUV System for continuously inactivating airborne viruses. This long-lasting LED fixture is supported by a mobile app for adjusting, scheduling, monitoring, and maintaining both the LED light systems.

### Features & Benefits

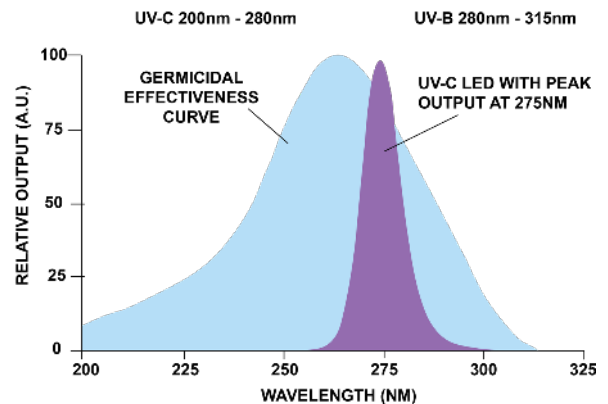
#### LED Downlight

- Dimmable LED downlighting
- Circadian light settings
- Mobile App Support
  - Wireless mesh connected
  - Installation & Set up Support
  - Timers & scheduling
  - Motion Sensor
  - Maintenance indicator & notifications
- Easily adjust any kelvin or wattage with the mobile app
- Allows for wireless grouping of fixtures
- Long-lasting LED Lighting (50,000+ hours)
- Dimmer switch
- FDA approval & UL listing (pending)



## The SafeAirUV™ System

- Continuously inactivates viruses in air while people are in the room
- Tested & certified to inactivate 99.9996% of all airborne viruses, including SARS- CoV-2 (COVID-19)  
Report available at [www.uvhealthgroup.com](http://www.uvhealthgroup.com)
- No Mercury-filled UV-C bulbs to change every 9 months
- Lower cost of ownership with longer life LEDs. 10K+ hours
- Science driven solution using UV-C 275nm
- No UV-C light exposure – ever.
- Designed to process and cleanse all room air multiple times per hour
- Quiet yet powerful variable speed fans
- Airflow adjustments accommodate multiple room sizes/shapes
- Auto-on when LED downlights are on
- UV-C LED maintenance indicator light



## Key Advantages

- Inactivates all pathogens in the air, when people are present
- Long life UV-C LEDs, not UV-C mercury bulbs
- Using the most powerful UV-C LEDs (275nm) to inactivate airborne viruses
- Tested in level 3 lab with Live Aerosolized SARS-CoV-2 virus
- Smartphone app to set fan speed, timing & schedules
- Motion sensor enables “room aware” features, knowing when people are present
- Status indicator
- Self-monitoring maintenance features, using Bluetooth with notifications
- UL & FDA approval (pending, Q1 2021)
- Hassle-free Installation in most standard T-bar ceiling grid systems or hung with a trim kit
- 5 Year Warranty

## Electrical Requirements Specifications

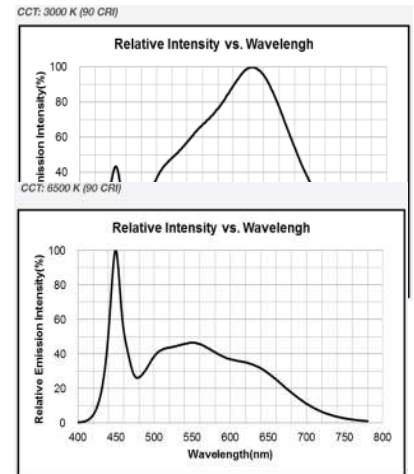
- **Input Voltage:** 85 – 305 VAC or 120 – 431 VDC
- **Input Voltage Frequency:** 47 – 63 Hz
- **Input power:** 175 W

## UV-C LED Specifications

- **UV-C LED Light Bar Current:** Nominal 100 mA DC
- **UV-C LED Peak Wavelength:** 275 nm  $\pm$  5nm
- **L70:** 50,000+ Hours

## LED Down Lighting Specifications

- **Correlated Color Temperature:** CCT Kelvin range: 3000K - 6500K
- **Color Rendering Index CRI:** 90+
- **Wattage Settings:** 25W - 35W - 45W
- **LED Info:** 50,000 Hours downlights
- **Physical** – finish powder coated, high-durability and long-lasting white color and contains no VOC or toxic heavy metals.
- **Product Dimensions:** 24” W, 48”L, 4.0”H
- **Qualifications** – FCC EUA / ETL (Pending)
- **Environment Sizing:** 1 fixture recommended for every 800 Cubic Feet of room space.
- **Order code:** UVH-CTF-24-45W-275N-1
- **Carton Dimensions & Weight:** 22 Lbs.
- **Made in the USA**



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