



PURE  
— UVC —

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## UVC Light Disinfection Systems

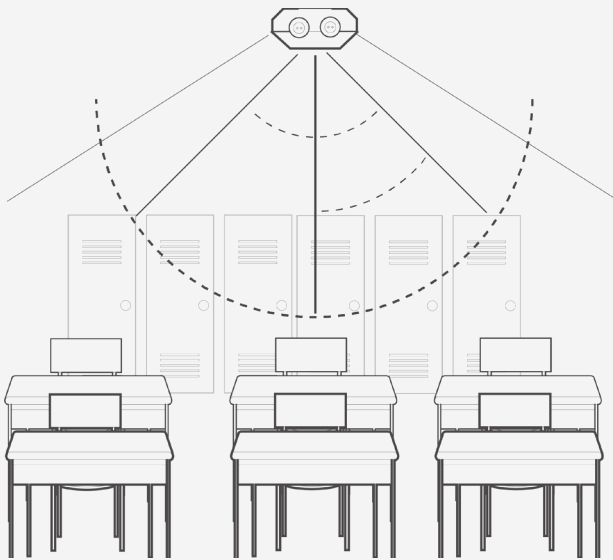
**PURE UVC**  
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# HOW IT WORKS

- 1** UVC disinfection occurs during times when spaces are unoccupied (e.g. 2-5am) as decided upon by client.
- 2** Operational time is estimated between 1-4 hours based on engineering analysis and room dimensions.
- 3** System disinfects up to 99.99% of exposed airborne and surface viruses, bacteria, and mold.



## HOW UVC DISINFECTS



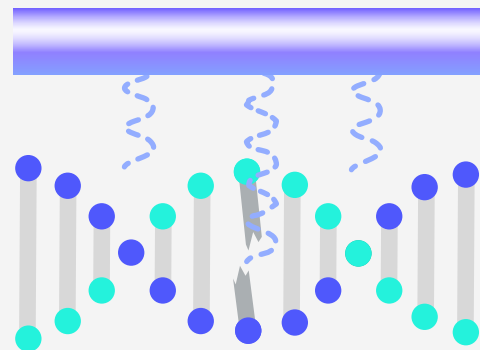
Unlike laborious, time-intensive cleaning with hazardous chemicals, UVC does not leave residue, odor, or dangerous by-products.

**UVC is 99.99% effective against all pathogens.**

When pathogens are exposed to the UVC wavelength range (200 - 280nm), their DNA and RNA are ruptured and rendered inactive. Cells become inert and cannot replicate, and thus cannot infect.

**This uniquely makes UVC a germicidal, anti-viral, and sporicidal solution for surface and airborne pathogens.**

254nm has been confirmed as the most effective wavelength, which is what Pure UVC systems use.





# INTELLI-SAFE CONTROLS

## GUARANTEED SAFETY AND EFFECTIVENESS

1

**Astronomic Clock** ensures fixtures are active only at designated times when spaces are unoccupied (i.e. late at night)

2

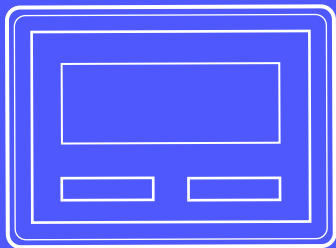
**Fixture Groupings** provide easy app-based control of all fixtures in a single room, area, or wing based on facility needs.

### SMART SENSORS



In-fixture occupancy sensors will immediately deactivate the UVC light upon sensing motion and re-activate after preset time when motion is no longer sensed.

### APP-BASED CONTROLS



App-based controls (iOS and Android) allow for alterations of schedule and fixture power by authorized users.

3

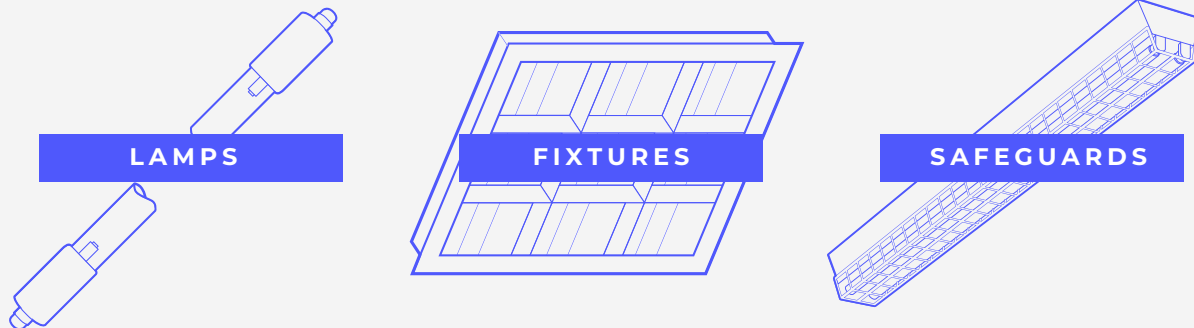
**Manual override controls** allow for instant user system control.

4

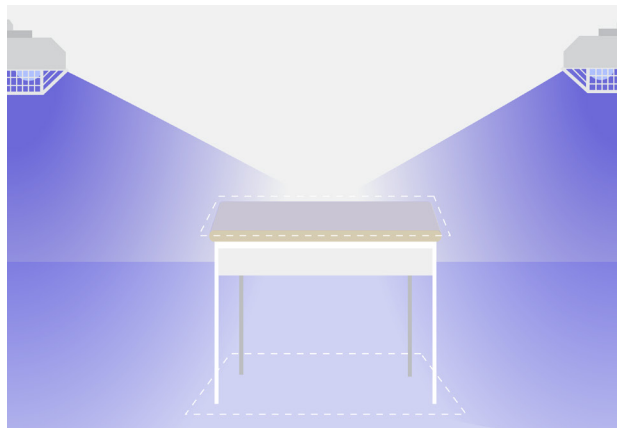
Fixtures are programmed to deactivate if any discrepancy is detected ensuring **occupants will never be exposed to UVC.**

# ENGINEERING & DESIGN

Fixtures are selected and installation layout is designed based on multiple factors including square footage, ceiling height, furniture layout, surface reflectance, room type (i.e. kitchen vs. classroom), and other special client needs.



## WHY PROPER UVC LIGHTING DESIGN IS CRUCIAL

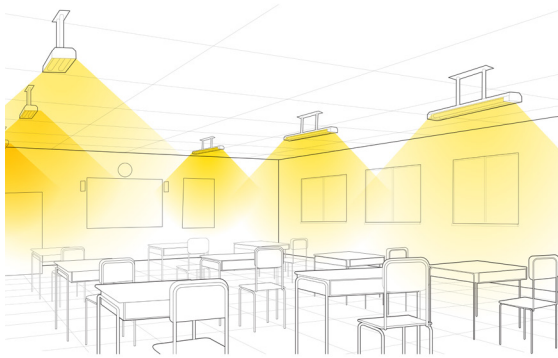


### MULTI-POINT LIGHTING

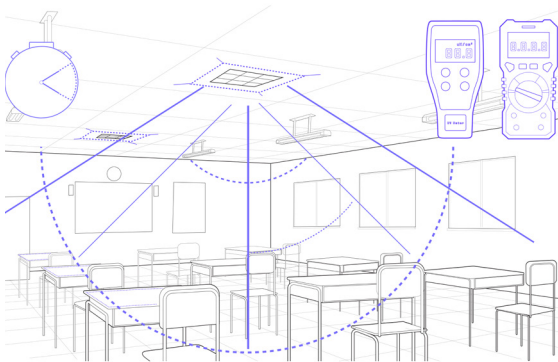
The UVC lights reach the entire space underneath the desk because the two sources of light fill in one another's shadows.

- For maximum disinfection efficacy, our engineers will advise on UVC fixture placement in order to ensure optimal treatment coverage. At least two light sources should be utilized in each treatment area in order to ensure proper treatment of areas that are shadowed or obstructed.
- The engineering team considers the UVC light beam's maximum reach as well as those multiple points of overlap, and makes thorough calculations to ensure that the reach to the target surfaces is sufficient.
- We engineer our UVC systems so that the lights' beams are powerful enough to disinfect even hard-to-treat mold, which requires more than 10x the light intensity required to disinfect most bacteria and

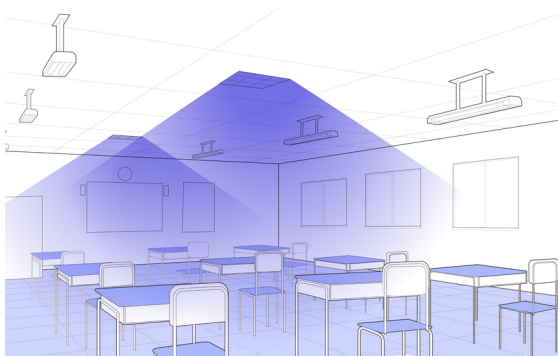




Type and aesthetic of fixtures are chosen based on the area's existing layout.



Accurate measurements are taken to ensure that the system operates at or exceeds requirements for comprehensive pathogenic disinfection.



Pure UVC calculates and programs the proper duration of UVC light operation for optimal room disinfection.

PRE-DESIGN

SYSTEM DESIGN & PROGRAMMING

INSTALLATION & SUPPORT

**PROJECT INITIALIZATION**

Client provides facility floor plan and completes brief pre-project questionnaire to receive quote. Client reviews and approves to initialize project.

**CLIENT-SPECIFIC DESIGN**

Pure UVC specialists assess existing disinfection practices and facilities' special needs in order to create a custom-engineered solution.

**HIGH-EFFICACY DESIGN**

Pure UVC's engineers create space-by-space designs to ensure maximum coverage, and up to 99% pathogen disinfection for all exposed areas.

**PROGRAMMING AND COMMISSIONING**

Pure UVC experts provide customized programmed schedule and app-controlled presets based on engineered design to maximize efficiency and efficacy.

**INSTALLATION GUIDANCE**

Pure UVC provides your install team simple space-by-space wiring diagrams and install instructions. Expert consulting by Pure UVC is available to support the install process.

**POST-PROJECT CARE AND SUPPORT**

After project closure, enjoy expert tech support, a simple warranty process and professional customer service. Pure UVC provides continual assistance via bulb-replacements and education on system usage.