



# Meet Beam

## Autonomous upper room UVGI air disinfection

### Inactivates 99.9%+ of airborne microbes in as little as 5 minutes

- Uses LED technology tuned to highest effective wavelength (265nm)
- Provides 12 eACH on average: equivalent to changing total amount of air in the room 12 times per hour with disinfected air

### Delivers superior efficacy

- Offers a less expensive alternative to HVAC upgrades; more effective than other solutions like bipolar ionization or electrostatic spraying

### Safely disinfects air in large spaces

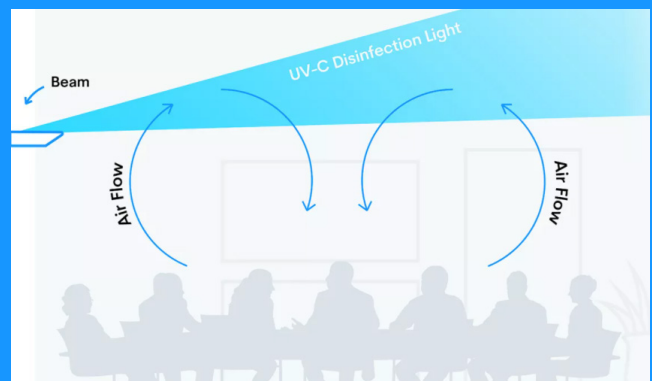
- Shoots a powerful veil of UV light across the top of an occupied room

### Automatically reduces risk

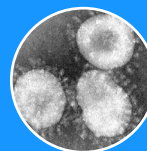
- Senses occupancy and automatically powers on to inactivate microbes while connecting with R-Zero Connect device dashboard for device management and tracking

### How it works

Air rises and passes through the zone of irradiation, where it is disinfected. Natural airflow then recirculates the disinfected air in the occupied space.



Upper room ultraviolet germicidal irradiation (UVGI) is an air disinfection method generally recommended by ASHRAE and the CDC. R-Zero's upper room UVGI solution, Beam, has been independently validated for its ability to inactivate microorganisms, including:



99.9%  
Human  
coronavirus



99.9%  
Klebsiella  
bacteria



99.9%  
Staph  
epidermidis

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## Autonomous UV-C air disinfection for occupied spaces

Germicidal Light Engine	
UV Source	4 Proprietary LED bars, 12 LEDs per bar
Rated LED Life	10,000 hrs, up to 3 years under normal operating conditions
Wavelength	Nominal 265 nm (range 260–270 nm)
Coverage Area	Up to 500 square feet
Disinfection Power	99.9% reduction in SARS-CoV-2
Added Equivalent Air Exchanges	12 eACH
Controls	
On Unit	Device status indicator, on/off switch
Remote Operation	Web interface (R-Zero Connect)
Auto Operation	Touchless power-on when room is occupied
Connectivity	WiFi (2.4 GHz)
Electrical	
Input Voltage	120–240 VAC
Current	1.6A (at 120 VAC)
Typical Power Consumption	120W
Max Power Consumption	200W
Power Connection	IEC C14 socket (cable included)
Physical	
Dimensions	77 inches tall, 16 inches wide
Weight	25 lb
Mounting	Wall
Minimum Mounting Height	7 feet from floor
Environmental	
Indoor/Outdoor	Indoor only
Altitude	0–3000m
Temperature	10–40C
Relative Humidity	10–90%
Safety	
Motion Sensors	2 long-range PIR sensors in the irradiance zone
Physical Features	Baffle under LEDs to direct light and keep occupant exposure below limits to direct UV-C light
Regulatory	
UL 1598, CSA C22.2 No. 250	Expected March 2022
FCC Part 15C	Passed August 2021

UV environmental disinfecting is supplemental to, not a replacement for, physical surface cleaning and is effective only on exposed surfaces and in circulating air exposed to UV light. R-Zero UV-C disinfection products are intended to reduce microorganisms, pollutants, contaminants or pollen in the air and/or on non-medical surfaces. They are not intended for any health or medical-related purpose.