visium™

Product Specifications

Providing Automated, Simple, and Safe Air and Surface Sanitization

Device Features

c UL us LISTED

Meets California ozone emissions limit: CARB certified.

Designed and Assembled in USA

- Continuous chemical-free environmentally safe air sanitization process that utilizes human-safe Far-UVC light to inactivate up to 99.9% of airborne pathogens silently, significantly adding equivalent air changes (eACH) to the indoor space.**
- Visium 1 is UL Certified for continuous operation and is ideal for use in occupied indoor spaces to help reduce overall pathogen loads in the air and on surfaces**.
- Features Ushio's Care222 UVC excimer lamp module with patented bandpass filter that outputs a narrow band of 222nm peak emission while blocking harmful longer wavelengths.
- Integrated IoT connectivity and sensors in combination with our proprietary algorithm enables device control, automation, and monitoring of indoor air quality and a Safe Air Score of your indoor space via the Lit Thinking App™.
- Visium 1 is easy to service and maintain with a patent-pending quick Far-UVC lamp replacement design.
- With its beautifully designed aesthetics and easy installation, Visium 1 can be installed similar to a 120-277V lighting fixture, with options of recessed, surface mount, and pendant mount.

Recessed

Surface

Pendant

Ordering Logic

MODEL
- **VS1** Visium 1™

SANITIZATION
- **UV 222** Far-UVC 222nm

VOLTAGE
- **MV** 120-277V Multi-Voltage

Optics*
- **CO** Clear Optics
- **DO** Diffused Optics

MOUNTING
- **RM** Recessed Mount
- **SM** Surface Mount
- **PM** Pendant Mount

STEM LENGTH
- **Blank** No Stem
- **36** Default 36" Stem
- **XX** Custom Length (from 1" to 60") (For Pendant Mount Only)

FINISH
- **W** White

Examples: *VS1 UV222 MV DO SM W*
VS1 UV222 MV CO PM 36 W

**See Mounting Guide*

Accessories Ordering

PART NUMBER	DESCRIPTION
LIT UVC222 Module B1.5 DO	Replacement Far-UVC 222 Module Diffused Optics
LIT UVC222 Module B1.0 CO	Replacement Far-UVC 222 Module Clear Optics
VS1 PM KIT	Pendant Mount Kit for Visium 1

VALIDATED

• ZERO OZONE EMISSIONS – MEASURED OZONE EMISSIONS FROM VS1 UV222 MC DO WITH B1.5 UV LAMP DURING USE PHASE DOES NOT EXCEED 0.005 PPM AS TESTED BY UL 867

UL.COM/ECV

Note:
1. *Close range direct infectious aerosol transmission will continue to require additional precautions such as personal protective equipment and/or adequate separation.*
2. *UL 2998 Zero Emissions Certification only applicable to models with diffused optics.*

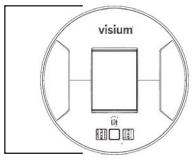
For ordering and support, please contact Lit Thinking at customerservice@litthinking.com

***Laboratory aerosol testing reduced 99.9% of S. aureus and 96% of E. coli with Clear Optics and 98% of E. coli with Diffuse Optics in 30 minutes. Refer to the Lit Thinking Efficacy Report for more information.*

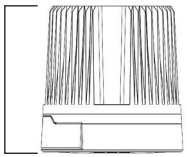
Dimensional Drawings and Technical Specifications

Surface / Pendant Visium 1

Ø: 5.79in
(147mm)

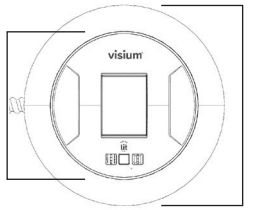


6.12in
(156mm)



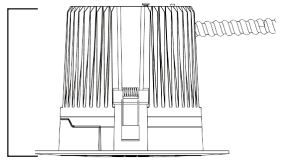
Recessed Visium 1

Visium 1 Only
Ø: 5.79in
(147mm)



With Trim Ring
Ø: 7:87in
(200mm)

6.12in
(156mm)



Far-UVC Light Source	
Peak Wavelength	222nm
Type	Ushio Care222
UVC Lifetime	>10,000 Hrs
Band-Pass Filter	Yes
UVC Irradiance (at 5cm away)	Diffused Optics: 0.55 ± 0.15 mW/cm^2; Clear Optics: 2.5 ± 0.7 mW/cm^2
UVC Emission Angle	Diffused Optics: 110° - Clear Optics: 60°
Device Coverage	Up to 200 sq. ft.
Visible Light Lumen Output	Diffused Optics: 0.51Lm; Clear Optics: 1.35Lm
Electrical	
Input Voltage	120-277V
Frequency	50-60Hz
Power Consumption	14W
Device Control	via Lit Thinking App
Sensors	Motion, IAQ (via Bosch BME688 sensor)
Mechanical	
Housing	ABS/Polycarbonate Housing
Finish	Matte White Finish
Dimensions (øD x H)	5.79in x 6.12in (147mm x 156mm)
Weight	2.4lb (1,089g)
Operating Temperature	0 to 40°C (32 to 104°F)
Installation	Recessed, Surface Mount, Pendant Mount (with optional Kit)
Mounting Height	Diffused Optics: 7ft 4in Above Finished Floor (AFF), Clear Optics: 9ft 4in AFF
Device Spacing	Minimum of 48in on center spacing required between all devices
Serviceability	Yes, Far-UVC Lamp is field replaceable
Indication	Multi-Color Configurable LED Indicator
Warranty and Regulatory	
Warranty	1 Year Limited on Visium Device
Compliance	• Certified to UL 8802 - Safety standards for Ultraviolet Germicidal Products • Classified as Risk Exempt - Risk Group 0 under UL8802 Photobiological test • Certified to meet California ozone emissions limits - CARB Certified • Certified to UL 2998, classified as zero ozone emissions (Diffused Optic Models Only) • Certified to FCC Part 15 Class A standards • Complies with ACGIH Threshold Limit Values (TLV) for UVC Exposure • Visium is manufactured at an EPA registered facility
Environment	Suitable for Damp Locations

All data shown is nominal

Visium is manufactured in an EPA registered facility number 102522-FL-1.
For more information, contact Lit Thinking at 321-299-0100 or CustomerService@LitThinking.com.

Visium 1 Mounting Guide - Clear Optics

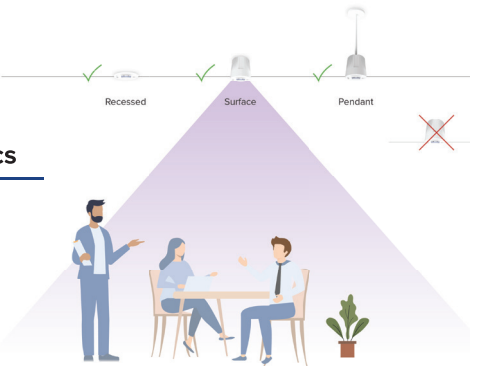
9ft 4in Plane

For compliance with UL safety standards, illuminating surface of the Visium 1 with Clear Optics is required to be 9ft 4in, or higher, above the floor.

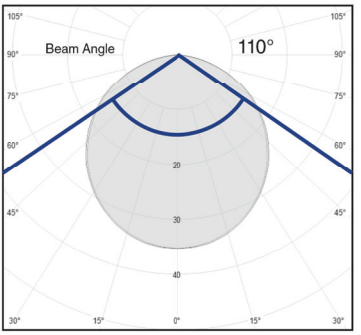
Visium 1 Mounting Guide - Diffused Optics

7ft 4in Plane

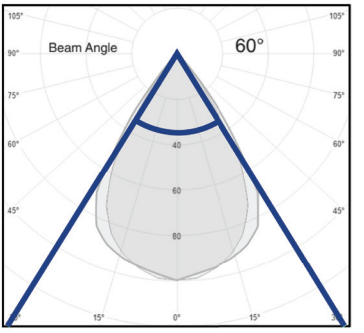
For compliance with UL safety standards, illuminating surface of the Visium 1 with Diffused Optics is required to be 7ft 4in, or higher, above the floor.



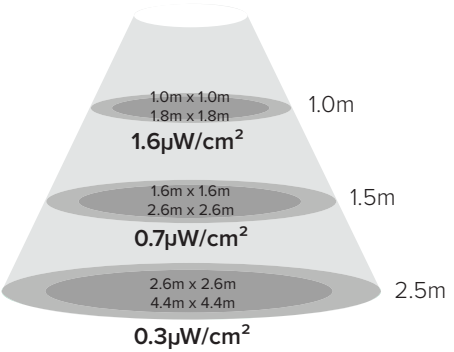
Visium 1 with Diffused Optics



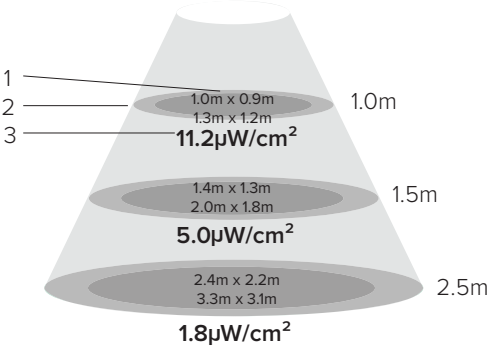
Visium 1 with Clear Optics



Visium 1 with Diffused Optics*



Visium 1 with Clear Optics*

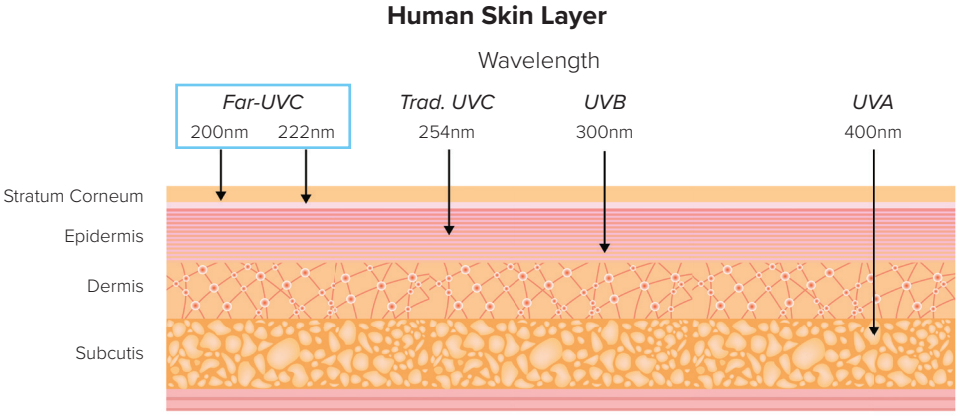


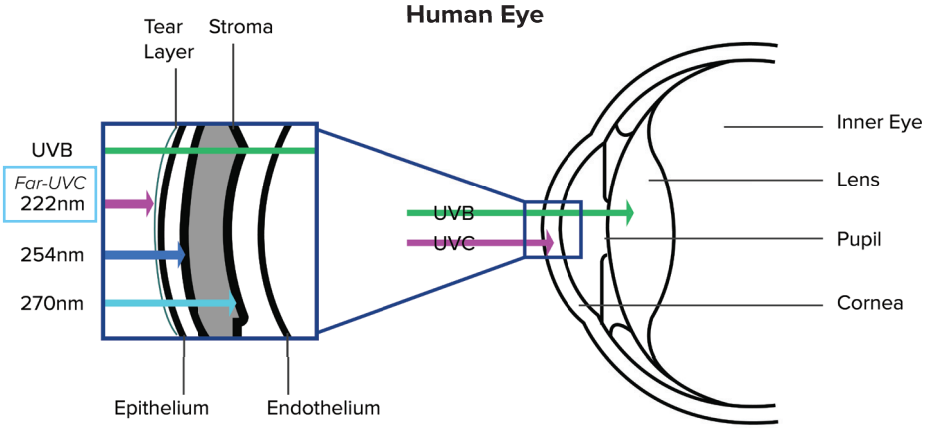
1 = Area of >60% Peak Irradiance
2 = Area of >30% Peak Irradiance
3 = Peak Irradiance

Irradiance and other technical information are for reference only and are subject to change. This is not a formal specification and does not indicate any warrantied values. Please refer to the UVC lamp's formal specification sheet for complete details and specification.

Far-UVC Safety

The safety of Far-UVC has been established with over 50 peer-reviewed studies and clinical trials. The American Conference of Governmental Industrial Hygienists (ACGIH) has established Threshold Limit Values (TLV) for UVC exposure and the safe use of Far-UVC light. Visium 1 is designed to comply with TLV to ensure safety. Furthermore, Visium 1 is UL certified under UL 8802, the safety standards for Ultraviolet Germicidal Products and is classified by UL as Risk Exempt under photobiological safety testing during evaluation. Minimum mounting heights, as listed above, are required. The shallow penetration depth of Far-UVC has been demonstrated unable to reach living tissue on humans, instead Far-UVC is completely absorbed by protective layers of the skin and eyes.





Adapted from reference: Park, Sung-Jin. (2021). Far UV-C Radiation: Current State-of Knowledge. White Paper, International UV Association Far-UVC Task Force; https://www.iuva.org/Projects-Articles-Repository/10503221