IPMU1

The ISON™ PUREMOTION™ was designed to sanitize air in a space, eliminating various airborne viruses, bacteria, mold and fungi. Axial fans draw room air into LED UVC chambers where LED UVC chips sterilize the air and return it to the room. The fans are very quiet while on. The unit can resemble existing ceiling tile to provide a discreet method to sanitize the air in the space for a safer and healthier working environment. For additional protection, the PUREMOTION units have Orion's Proprietary antimicrobial Britex™ coating. To accommodate various applications, it can be installed into existing T-Bar ceiling grid, mounted on ceiling surface or suspended from the ceiling. Ideal for almost any indoor application including healthcare, education and commercial facilities.

IPMU124M24UNVWHAPLCRM-SP

Features

- While on, it provides continuous air sterilization using 275nm UVC technology protecting against viruses, bacteria, fungi and mold helping reduce the spread of these pathogens
- Device planning guide available for room layout, see Page 2
- Aluminum construction provides nice aesthetics and efficient heat dissipation. White, black and silver powdercoat finishes available. Custom colors available upon request
- Britex™ coating suppresses the growth of bacteria or fungi on the surface and interior of the device
- Smooth white ceiling tile, fissured pattern print ceiling tile, painted aluminum panel, or digital custom print front panel options
- Multiple mounting methods
- Easy to replace UVC LED panel kit
- Available in 2' x 2' and 2' x 4' sizes
- 20kV/10kA surge protection available

Electrical

- Available in 120v-277v input range

Ambient Operating Range

- 0°C to 25°C (32°F to 77°F)

Fixture Certification & Listings

- UL/cUL Listed for damp locations
- Buy American Act Compliant
- EPA Establishment Number: 94844-WI-1
- Not registered as a pesticide device in Hawaii and Puerto Rico (not for sale in these geographic areas)
- Meets California ozone emissions limit: CARB certified

Pathogen Sterilization

- Third party testing has confirmed the IPMU technology has 99% effectiveness in sterilizing airborne pathogens including COVID-19 (SARS-COV-2) coronavirus in a sealed room lab setting. Click here for press release information

Rated Life

UVC LEDs - 30,000 hours
Fans - 50,000 hours
Drivers - 50,000 hours

Warranty

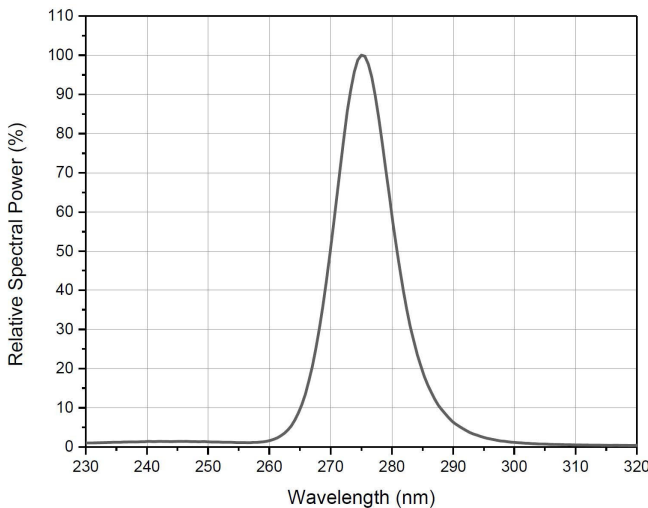See Orion's Product Limited Warranty for more details and information

PureMotion™ Britex™

Performance Information, 120v[1]

Device Size	Number of UV LEDs	Wattage	Input Current
2' x 2'	48	57w	0.475A
2' x 4'	96	114w	0.950A

Physical Information

Number of LEDs	Fixture Size	Length	Width	Depth	Weight
48	2' x 2'	23.75"	23.75"	4.00"	9lbs.
96	2' x 4'	47.75"	23.75"	4.00"	18lbs.

LED Spectrum

Planning Guide for Applications

Air Movement Planning Guide 5 ACH*

Ceiling Height	Room Size sqft	Number of 2x4 Fixtures Needed	Number of 2x2 Fixtures Needed
8 ft.	100	1	2
8 ft.	150	2	4
8 ft.	225	3	5
8 ft.	300	3	6
8 ft.	400	4	8
8 ft.	500	5	10
8 ft.	600	6	12
8 ft.	700	7	14
8 ft.	900	9	18
8 ft.	1000	10	20
8 ft.	1500	15	30
8 ft.	2000	20	40
8 ft.	3000	29	58
8 ft.	4000	39	78
8 ft.	5000	48	96
8 ft.	6000	58	116
8 ft.	7000	67	134
8 ft.	8000	77	154
8 ft.	9000	86	172
8 ft.	10000	96	192

ASHRAE guidelines recommend ≥ 4 *Air Changes per Hour for an office space.
Laboratory testing shows that 5 *Air Changes per Hour will result in 99.27% reduction of non-enveloped viruses after 90 minutes.

Ordering Information Example (NOTE: No dashes or spaces unless noted below)

Series	Size	UV Model	Voltage	Housing Color	Front Panel	Mounting	Fixture Options	Packaging Options
IPMU1	24	M24	UNV	WH	APL	CRM	[Blank]	-SP

Ordering Information

Series	Size	UV Model	Voltage	Housing Color*	Front Panel	Mounting	Fixture Options	Packaging Options
IPMU1= ISON PureMotion UVC, Gen 1	**22**= 2' x 2' **24**= 2' x 4'	**M24**= UV Model	**UNV**= 120-277v	**WH**= White **BL**= Black **SL**= Silver ***Note: SFM** and **SM** mounting options will match housing color	**APL**= Aluminum Panel [will match housing color] **WCT**= Smooth White Ceiling Tile **FCT**= Fissured Pattern Print Ceiling Tile **DPxx**= Custom Logo Print Ceiling Tile[3]	**CRM**= Recessed Mount **SFM**= Surface Mount **SM**= Suspended Mount[2]	**[blank]**= No Option **TS**= Additional 20kV/10kA Surge Protection	**-SP**= Single Pack

Fixture Options (Factory Installed)
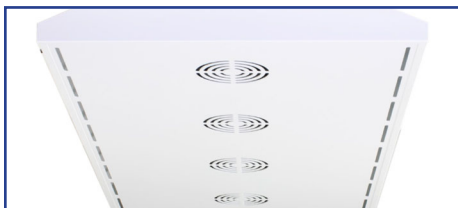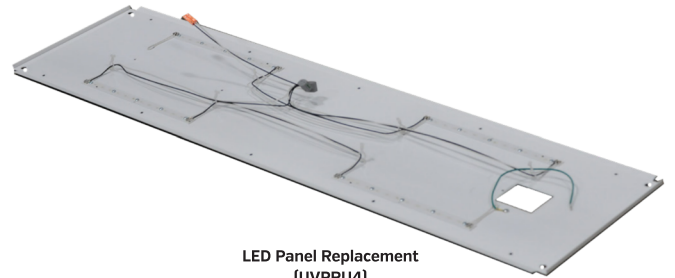

Aluminum Panel (APL)
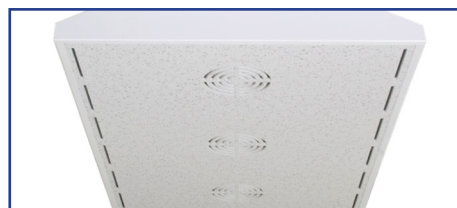
Fissured Tile Print (FCT)

Custom Logo Print Ceiling Tile (DPxx)
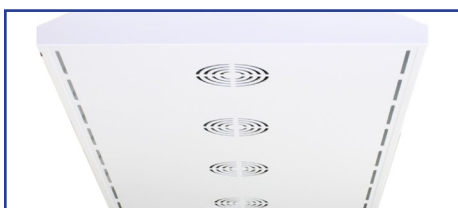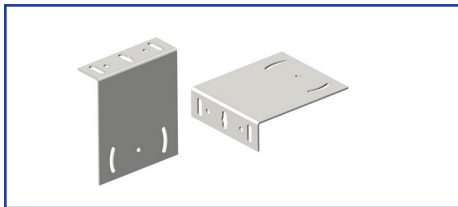

Smooth White Tile Print (WCT)

3

UV Panel Replacement

Part Number	Description
UVPRU2	UV LED Panel Replacement for 2' x 2' Devices
UVPRU4	UV LED Panel Replacement for 2' x 4' Devices

LED Panel Replacement (UVPRU4)

Fixture Options (Field Installed)

Surface Mount (SFM)

Suspended Mount (SM)

Additional Specification Information

[1] Actual performance may vary by up to ±10% of values listed; facility factors and fixture options can affect performance values.

[2] Suspended mount kit ships with the HW-FC008

[3] The following is required for the DPxx tile option; for submitting Logos: vector-based .EPS, vector-based .PDF, vector-based .AI (illustrator file) or 300dpi high resolution image (TIFF, JPG, PNG); adequate size for 2' x 2' and 2' x 4'. For submitting Custom Artwork Images or Photos: 300dpi high resolution image (TIFF, JPG, PNG); adequate size for 2' x 2' and 2' x 4'

4

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