



# 600mW UVC LED MODULE SPECIFICATIONS

Model No. : MD1008-1

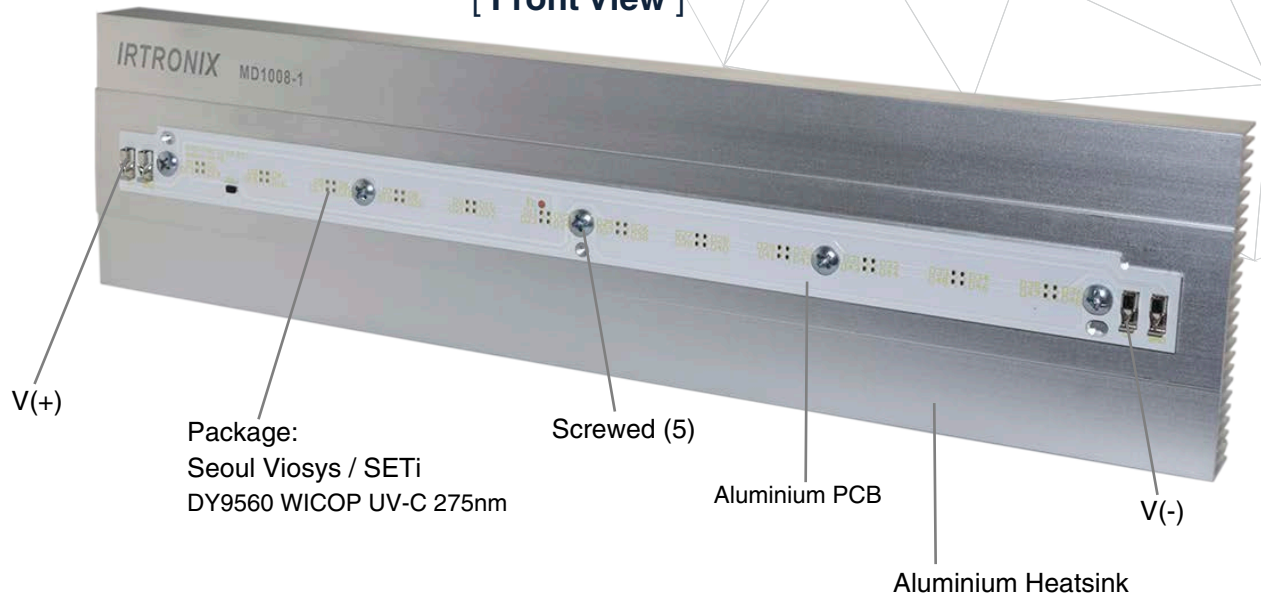
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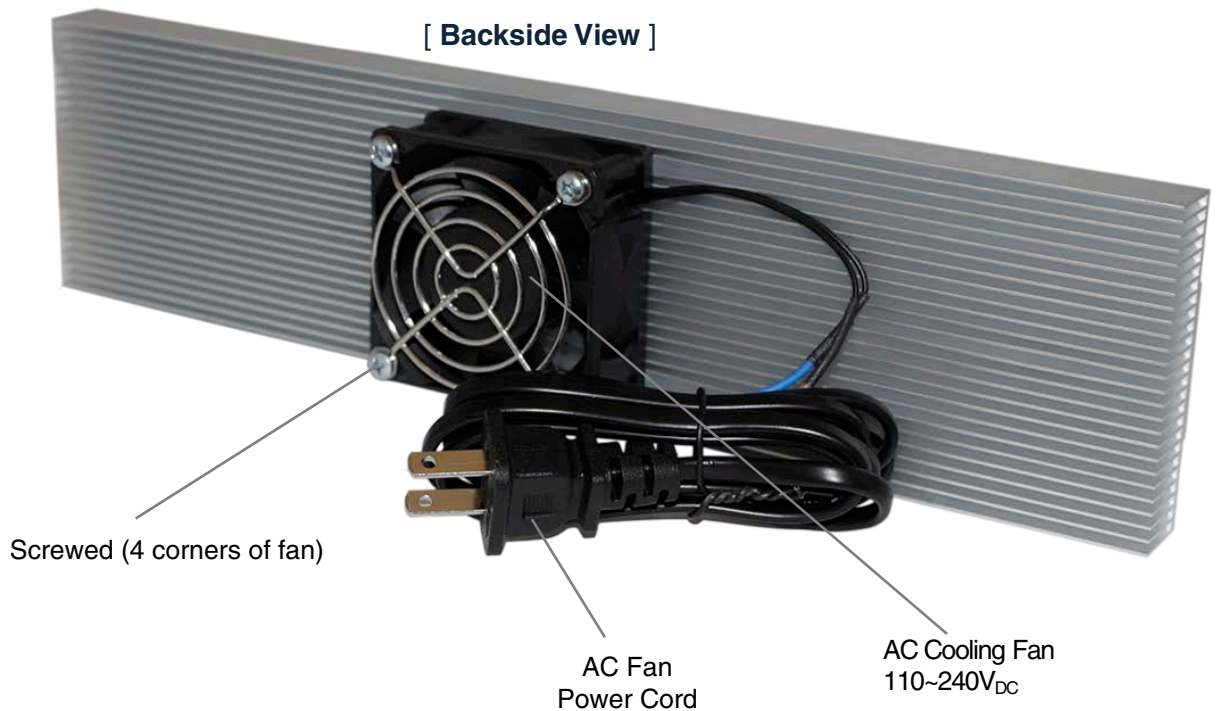
# HIGH POWER UVC LED MODULE

Model No. : MD1008-1

[ Front View ]



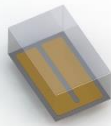
[ Backside View ]



\*This model: XMD-FBC-LLVA

\*Scale: NTS

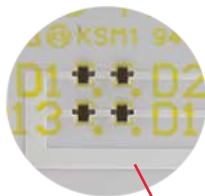
## Utilizes DY9560 WICOP devices Designed for use with LEDiLVIOLET focusing optics



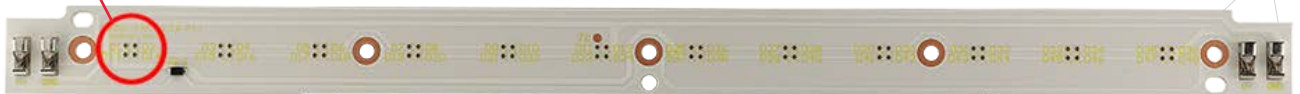
- Deep UV LED - 275nm
- UV WICOP series
- DY9560

DY9560 is a deep ultraviolet light emitting diode with peak emission wavelengths from 270nm to 280nm.

The LED was developed with robustness in mind to be suitable for a package-free environment. Wafer Integrated Chip On Package (WICOP) technology is a great fit for economical module designs.



48pcs of DY9560 Wicop / 275nm 600mW



XMD-FBC-LLVA

# HIGH POWER UVC LED MODULE

Model No. : **MD1008-1**

Optical Power : 600mW 275nm UV-C LED

## 1. Description

The MD1008-1 is a complete system developed for the purpose disinfecting application. The module has 48 of SETi UV WICOP DY9560 mounted on a fan cooled heatsink. The total current is 1.84A and the voltage is 25.3V<sub>DC</sub>. A DC benchtop laboratory power supply with adjustable current limit up to 1.84A, and adjustable voltage up to 25.3V<sub>DC</sub> can be used to provide power to the module.

## 2. Operating Procedures

Test set up:

- 1) Turn on the benchtop power supply and set the voltage to about 2V<sub>DC</sub>.  
Short the output power leads (+ and -) together, and adjust the current to 1.84A. Remove the short leads.
- 2) Connect AC fan to AC 100~240V<sub>AC</sub>.
- 3) Connect the V(+) and V(-) of the module to + and - leads of the benchtop power supply.
- 4) Slowly increase the power supply voltage until the current reach 1.84A.
- 5) The module is now ready to use with proper setting.

## 3. Features

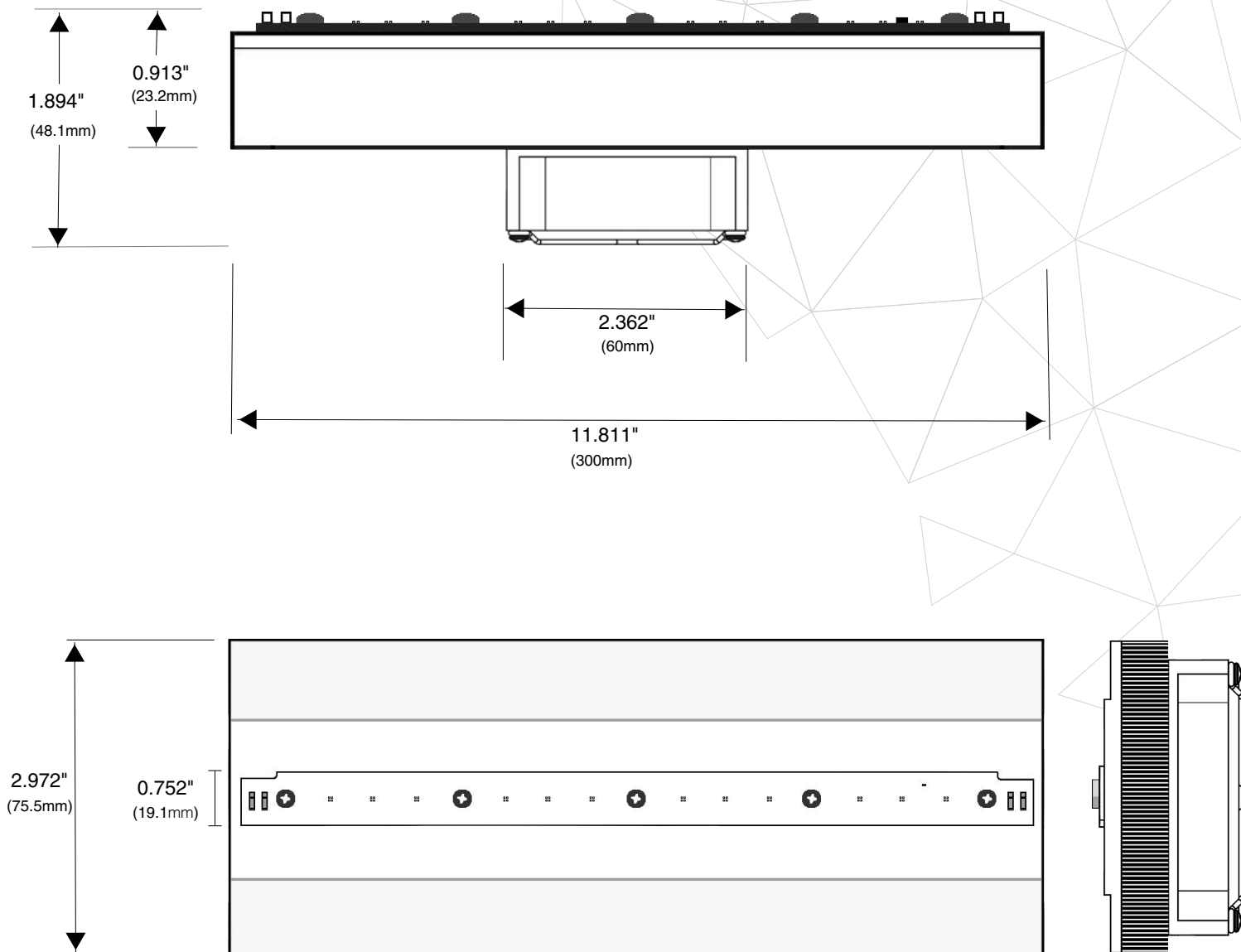
Number of UVC LEDs	48 (XMD-FBC-LLVA)
Package Size	48pcs of Wicop 275nm
Beam Angle	135 degrees
Dimensions	300(W) x 75.5(L) x 48.1(D) (mm)

## 4. Electro-Optical Characteristics

Part No.	Peak Wavelength (Band)	Forward Current	Forward Voltage	Optical Power	Power Consumption
XMD-FBC-LLVA	275nm	1.84A	25.3V	600mW	46.55W

## 5. Mechanical Characteristics

### 1) Outline Dimensions



\*Drawing Model: XMD-FBC-LLVA (48pcs of Wicop 275nm and total 600mW)

## 6. Disclaimers

- IRTronix is not responsible for any damages or accidents caused if the operating or storage conditions exceed the absolute maximum ratings recommended in this document.
- The LEDs described in this document are intended to be operated by ordinary electronic equipment.
- The LEDs should not be used at any lighting products together with the other LEDs, which has a different part number. If required, please contact any salesperson.
- It is recommended to consult with IRTronix when the environment or the LED operation is nonstandard in order to avoid any possible malfunctions or damage to product or risk of life or health.
- Disassembly of the LED products for the purpose of reverse engineering is prohibited without prior written consent from IRTronix. All defective LEDs must be reported to IRTronix and are not to be disassembled or analyzed.
- The product information can be modified and upgraded without prior notice.

## 7. Cautions



- ULTRAVIOLET light may be harmful. Do not expose to your eyes and skin.
- Proceed with caution to avoid the risk of damage to the eyes when examining the LEDs with optical instruments.