



IRTRONIX
Global Partner in UV LED Solutions



HIGH POWER UV SPECIFICATIONS

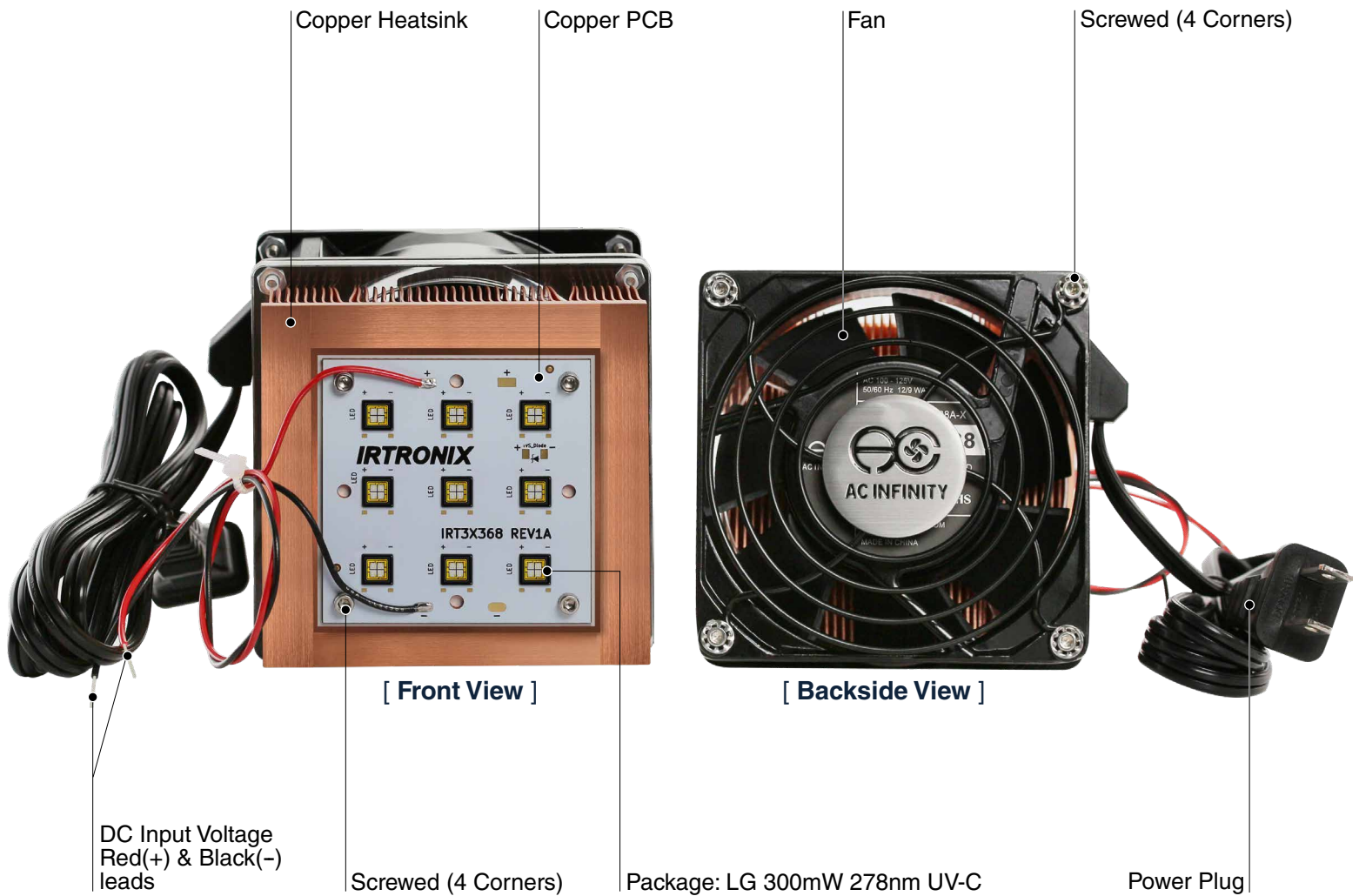
Model No. : UV1003M

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HIGH POWER UV

Model No. : UV1003M



*Scale: NTS

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Model No. : **UV1003M**

Using 300mW 278nm UV-C

1. Description

This module is our highest powered UV module which utilizes 9 of LG Innotek's 6868 package UV LEDs. Each of these 6868 packages contains 4 bare chips, resulting in a total of 36 bare die on this module in your choice of our possible wavelengths. Due to its high power consumption and moderate efficiency, this module is equipped with a large copper heatsink and fan for thermal management. No other UV LED device will output more UV radiation for your disinfecting, curing, or testing needs than this will.

2. Features

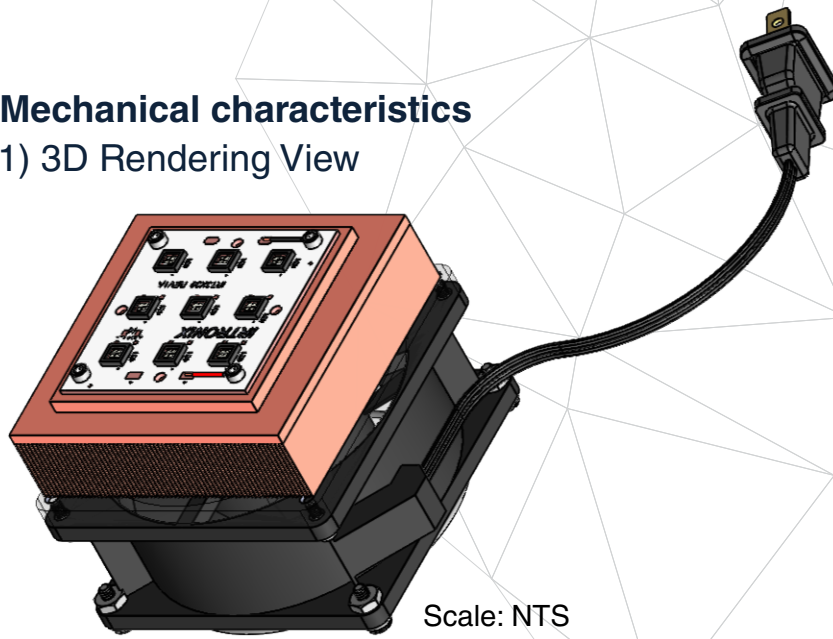
Number of LEDs	9
Package Size	6868 (6.8mmx6.8mm)
Beam Angle	110 degrees
PCB Size	60mmx60mm
Dimensions	3.625"(W)x3.625"(H)x3.150"(L)
<ul style="list-style-type: none"> • Large copper heatsink for maximum thermal dissipation • Copper PCB with thermoelectric separation for thermal management 	

3. Electro-Optical Characteristics (3x3 / 6868 Package)

LED	Part No.	Peak Wavelength (Band)	Forward Current	Forward Voltage	Optical Power	Power Consumption
300mW, 278nm	LEUVA77M00HU00	278nm (UV-C)	3.15A	32V	2.7W	100.8W
5W, 365nm	LEUVA77000RV00	365nm (UV-A)	3A	49.2V	45W	147.6W
6W, 385nm	LEUVA77Z80TV00	385nm (UV-A)	3A	43.5V	54W	130.5W
6W, 395nm	LEUVA77Z80UV00	395nm (UV-A)	3A	43.5V	54W	130.5W
6W, 405nm	LEUVA77Z80VV00	405nm (UV-A)	3A	43.5V	54W	130.5W

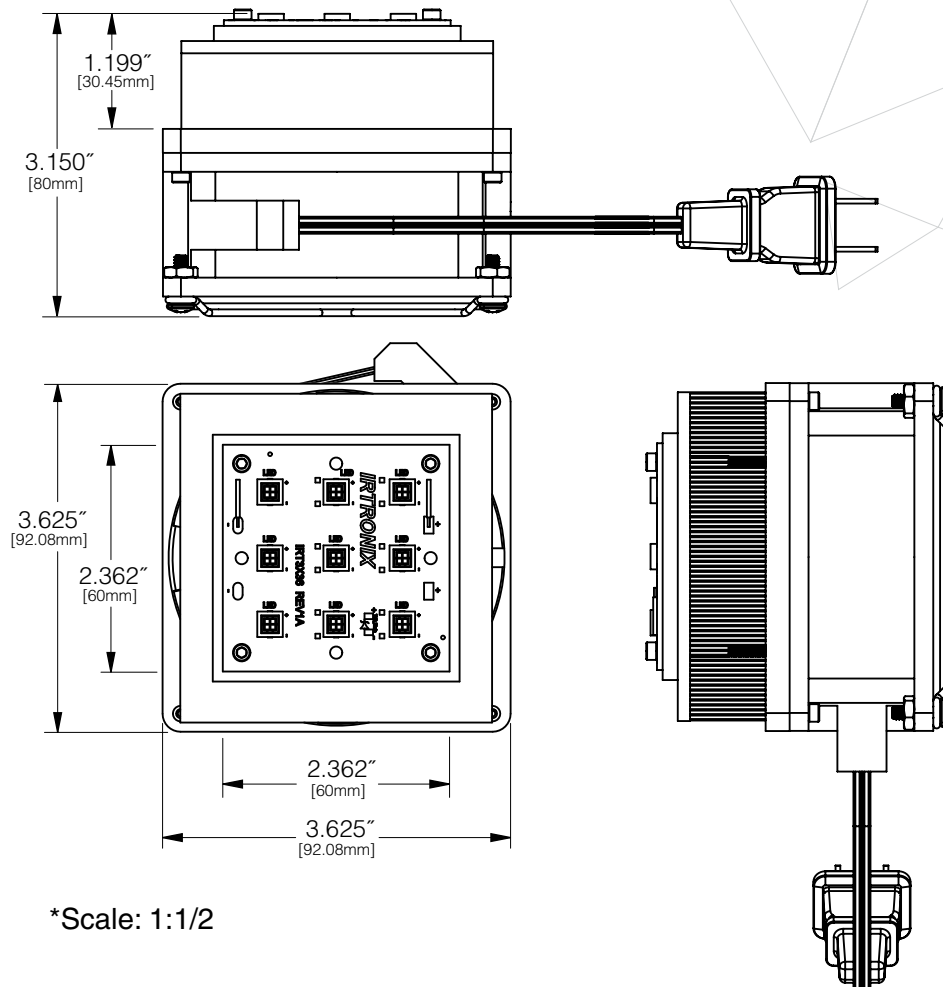
4. Mechanical characteristics

1) 3D Rendering View



Scale: NTS

2) Outline Dimensions



*Scale: 1:1/2

5. Cautions on Use

- 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 defected 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.

6. Disclaimers: Safety Guidelines



- 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.