



IRTRONIX
Global Partner in UV LED Solutions



LENS ARRAY MODULE SPECIFICATIONS

Model No. : UV1009LAM

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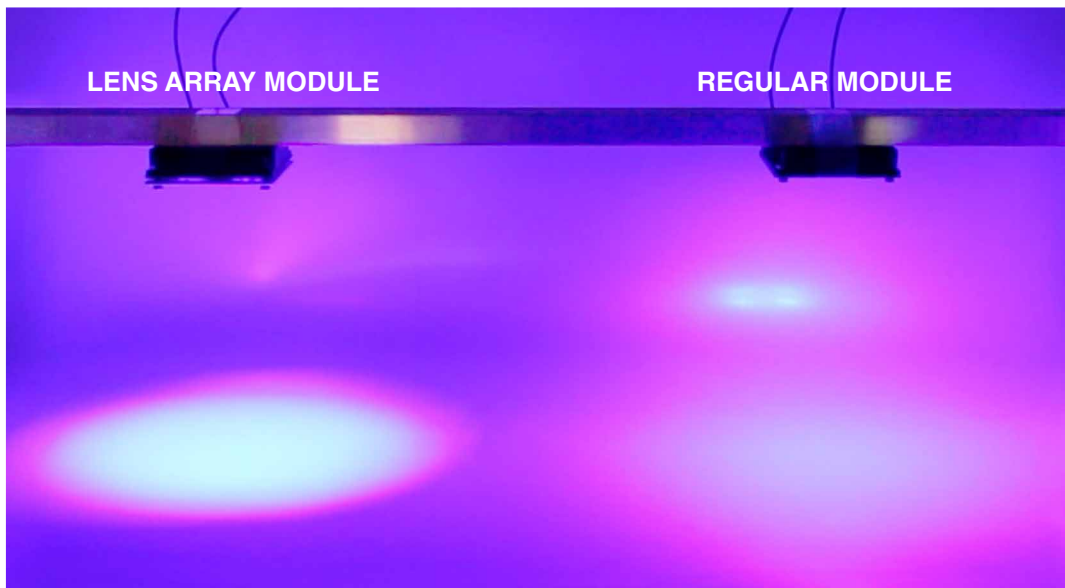
LENS ARRAY MODULE

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BEAM ANGLE TEST

LENS ARRAY MODULE vs REGULAR MODULE



LENS ARRAY MODULE

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1. Description

Featuring improvements of our existing UV module is our new Lens Array module. This module is available in 1x1, 2x2, and 3x3 configurations and includes a lens fixture which contains hemispherical lenses over each LED. This effectively reduces the beam angle of each LED from 120° to 65°, resulting in a much more concentrated intensity of UV light. We use a highly transmissive material called JGS1 to guarantee that the light is being used as efficiently as possible. With the inclusion of this lens array, whatever your application, you will be able to deliver much more power, allowing it to do its job in much less time.

**Warning: UV-C light can be harmful, so please be careful to avoid direct exposure to your eyes and skin.*

2. Features

Package Number	3x3	2x2	1x1
Number of LEDs	9	4	1
Package Size	6060	6060	6060
Beam Angle	65°	65°	65°
Dimensions	60x60x50mm	60x60x50mm	40x40x20mm
Weight	TBD	TBD	TBD
Copper PCB with thermoelectric separation for thermal management			

3. Electro-Optical Characteristics

1) 3x3 6060

LED	Part No.	Wavelength	Forward Current	Forward Voltage	Optical Power	Power Consumption
100mW, 278nm	LEUVA66H70HF00	278nm (UV-C)	1.05A	22.5V	900mW	23.6W
10mW, 278nm	LEUVA66G00HF00	278nm (UV-C)	0.3A	21V	90mW	6.3W
100mW, 305nm	LEUVA66H00KU00	305nm (UV-B)	1.05A	21V	900mW	22.05W
2W, 365nm	LEUVA66X00RV00	365nm (UV-A)	4.5A	11.4V	18W	51.3W
2W, 385nm	LEUVA66X00TV00	385nm (UV-A)	4.5A	11V	18W	49.5W
2W, 395nm	LEUVA66X00UV00	395nm (UV-A)	4.5A	11V	18W	49.5W
2W, 405nm	LEUVA66X00VV00	405nm (UV-A)	4.5A	11V	18W	49.5W

2) 2x2 6060

LED	Part No.	Wavelength	Forward Current	Forward Voltage	Optical Power	Power Consumption
100mW, 278nm	LEUVA66H70HF00	278nm (UV-C)	0.7A	15V	400mW	10.5W
10mW, 278nm	LEUVA66G00HF00	278nm (UV-C)	0.2A	14V	40mW	2.8W
100mW, 305nm	LEUVA66H00KU00	305nm (UV-B)	0.7A	14V	400mW	9.8W
2W, 365nm	LEUVA66X00RV00	365nm (UV-A)	3A	7.6V	8W	22.8W
2W, 385nm	LEUVA66X00TV00	385nm (UV-A)	3A	7.2V	8W	21.6W
2W, 395nm	LEUVA66X00UV00	395nm (UV-A)	3A	7.2V	8W	21.6W
2W, 405nm	LEUVA66X00VV00	405nm (UV-A)	3A	7.2V	8W	21.6W

3) 1x1 6060

LED	Part No.	Wavelength	Forward Current	Forward Voltage	Optical Power	Power Consumption
100mW, 278nm	LEUVA66H70HF00	278nm (UV-C)	0.35A	7.5V	100mW	2.63W
10mW, 278nm	LEUVA66G00HF00	278nm (UV-C)	0.1A	7V	10mW	0.7W
100mW, 305nm	LEUVA66H00KU00	305nm (UV-B)	0.35A	7V	100mW	2.5W
2W, 365nm	LEUVA66X00RV00	365nm (UV-A)	1.5A	3.8V	2W	5.7W
2W, 385nm	LEUVA66X00TV00	385nm (UV-A)	1.5A	3.6V	2W	5.4W
2W, 395nm	LEUVA66X00UV00	395nm (UV-A)	1.5A	3.6V	2W	5.4W
2W, 405nm	LEUVA66X00VV00	405nm (UV-A)	1.5A	3.6V	2W	5.4W