

UniCube M Series

UV LED light source for batch irradiation



Features

Flexible illumination area:

- ◆ Achieves a range of 50 × 50 mm to 400 × 400 mm or more, depending on how the Cube is assembled

High intensity:

- ◆ Provides 500 mW/cm² or more at 365 nm, making it ideal for the curing process

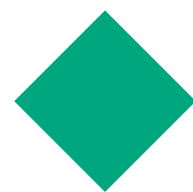
Long life:

- ◆ Incorporates Ushio's unique air-cooling technology for extended lifespan

Easy maintenance:

- ◆ Individual components can be replaced

The UniCube series offers breakthrough performance for batch irradiation. It is the world's first LED module that can irradiate areas from 50 x 50 mm to 400 x 400 mm in a single batch. Ushio's unique four-way coupling technology achieves high intensity, which in turn enables uniform curing of the entire area. This results in stable manufacturing processes and improved product quality. In addition, the UniCube series is characterised by its easy maintenance and long-lasting, stable performance.



Applications

- ◆ Tape peeling, dicing, and back grinding
- ◆ Curing OCA/OCR
- ◆ Imprint exposure
- ◆ Additional exposure of SR
- ◆ Curing various inks and adhesives

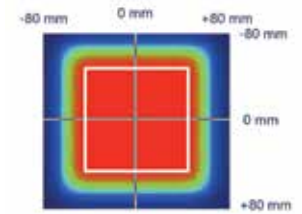
Specifications

Item	Unit	365 nm	405 nm
Cooling system	-	Air	<
Window size	(□mm)	96 x N	<
Width *1	(mm)	[96 x N] + 20	<
Length *1	(mm)	[96 x N] + 20	<
Height *1	(mm)	237.2	<
Weight (kg)	(kg)	(2.1 x N)	<
Intensity typ. *2			
at WD =20 mm	(mW/cm ²)	500	1.000
Dimming	(%)	16 ~ 100	12 ~ 100
Uniformity	(within ±%)	10	<
Power consumption	(kW)	0.35 x N	0.45 x N
Max. air flow	(m ³ /min)	0.5 N	<

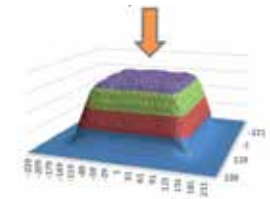
The intensity data is a reference value, not a guaranteed value

*1 Excluding the handle

*2 For UIT-250 (365 nm: UVD-S365, 405 nm: UVD-S405) ; Ushio detector

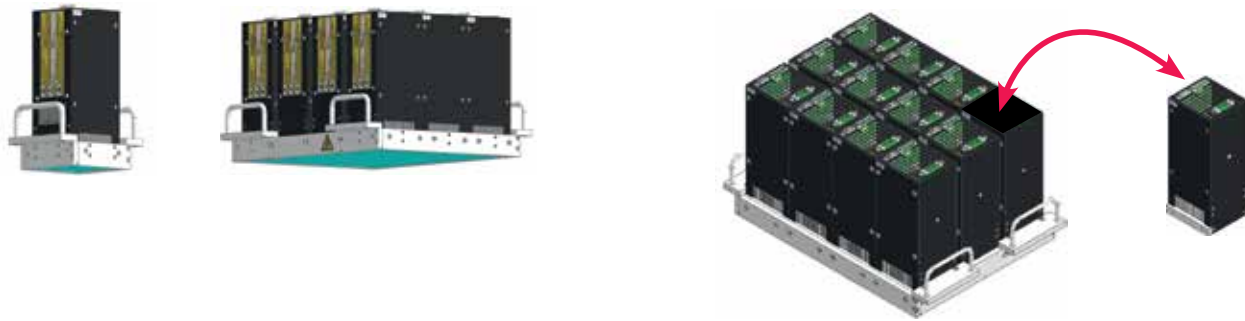


Contour map



3D illuminance distribution

Individual components are replaceable



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Intended use: Specifically designed and exclusively approved for use in industrial applications that require a particularly high UV output

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