

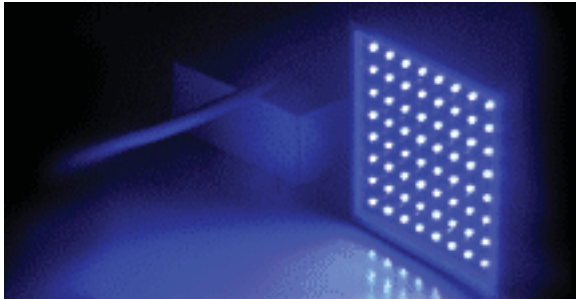


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UV-160.20E

UV LED MODULE



Fast, flexible curing and drying

Wavelength 365 - 405nm
High intensity
Air or water cooled
Long life
Instant on/off; no warming/cooling phase
Dimmable
Life of over 20,000 hours

MODULE LINEUP FOR UV LED CURING APPLICATIONS

UV LED modules provide a simple and effective way to build drying and curing systems for all kinds of inks, pigments and adhesive that are UV curable. They combine the benefits of LED — long life and low energy consumption — with the powerful curing properties of ultraviolet light

M-Series (Air Cooling)

- Compact Module
- Light Weight
- Multi-Divisional Dimming Control
- Dimming from 30%-100%
- Separate Drive Assembly
- U-VIT (Ushio Variable Illumination Technology)

Partial Dimming 1 On•Off Function Can Offer Optimized Light Distribution Which Can Contribute to Energy Saving and Fine Tuned Curing Process



M Series	M 30, M 30 II			
Cooling Type	Air Cooling			
Size of the Window (mm)	31,5 x 21			
Mechanical Dimensions (Width x Length x Height) (mm)	77 x 48 x 90			
Weight (kg)	0,35			
Peak Wavelength (nm)	365	385	395	405
Peak Irradiance (W/cm2) @ Window - (M30)	5,3	7,0	7,0	7,0
Peak Irradiance (W/cm2) @ Window - (M30 II)	-	9,0	9,0	9,0

For use in small area spot curing requiring high intensity.

L-Series (Air Cooling)

- High Power Density of Up to 12W/cm²
- Multi-Divisional Dimming Control
- Dimming from 30-100%
- Lightweight
- Separate Driver Assembly
- U-VIT (Ushio Variable Illumination Technology)

Partial Dimming 1 On•Off Function Can Offer Optimized Light Distribution Which Can Contribute to Energy Saving and Fine Tuned Curing Process



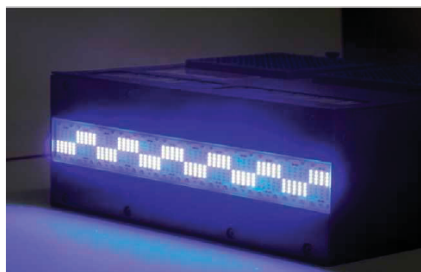
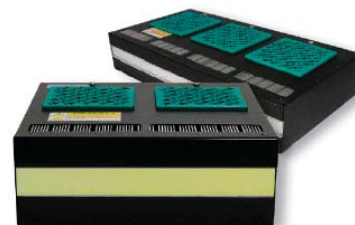
L Series	L 60	L 125	L 60 II	L 125 II
Cooling Type	Air Cooling			
Size of the Window (mm)	62 x 25	124 x 25	62 x 25	124 x 25
Mechanical Dimensions (Width x Length x Height) (mm)	110 x 68 x 160 (L 60, L 60 II) 168 X 90 X 160 (L 125, L 125 II)			
Peak Wavelength (nm)	365	385	395	405
Peak Irradiance (W/cm2) @ Window - (I)	6,0	8,0	8,0	8,0
Peak Irradiance (W/cm2) @ Window - (I y II)	-	12,0	12,0	12,0

For use in high performance pinning and curing

i Series (Air Cooling)

- High Power Density Up to 12W/cm²
- Multidivisional Dimming Control
- Dimming from 10-100%
- Scalable End-to-End with Edgeless Module
- Integrated Driver
- U-VIT (Ushio Variable Illumination Technology)

Partial Dimming 1 On•Off Function Can Offer Optimized Light Distribution Which Can Contribute to Energy Saving and Fine Tuned Curing Process



i Series	i 185 i 185 II	i 245 i 245 II	i 310 i 310 II	i 370 i 370 II	i 43 i 430 II	i 495 i 495 II
Cooling Type	Air Cooling					
Size of the Window (mm)	185,4 x 25	247,2 x 25	309 x 25	370,8 x 25	435,6 x 25	494,4 x 25
Mechanical Dimensions (mm)						
Width	187,4	249,2	311	372,8	434,6	496,4
Length	89					
Height	250					
Peak Wavelength (nm)	365	385	395	405		
Peak Irradiance (W/cm ²) @ Window - (I)	6,0	8,0	8,0	8,0		
Peak Irradiance (W/cm ²) @ Window - (I y II)	-	12,0	12,0	12,0		

E Series (Air Cooling)

This series offers 3 different types of UV LED modules for inkjet printing and 3D printing

The E.series UV LED product line includes three models, the (UDOS) (HD) and the (HC)

All of our E Series UV LED modules illuminate from edge to edge, in full width and can be chain-mounted for use in large exhibition areas.

The UV LED module (UDOS) allows the user to direct and focus UV light to the curing elements in 3D, this helps to avoid reflection of the substrate that clogs the 3D printhead

The UV LED module (HD) is used for curing fast ink printing and curing 3D printing and

Features almost 8 W / cm² output.

The HC type UV LED module uses an integrating bar to focus the output achieving a highly concentrated peak intensity ideal for UV curing

- Super Lightweight
- Dimming from 10-100%
- Scalable End-to-End with Edgeless Module
- Driver Integrated

The E series supports the assembly of 3 modules in chain

The E II series supports the assembly of 2 modules in chain



U-DOS Type (Directional Optical System Type)

E Series	E 110 U-DOS	E 075 II U-DOS	E 110 II U-DOS	E 075Z U-DOS	E 110Z U-DOS
Cooling Type	Air Cooling				
Size of the Window (mm)	110 x Rod lense	76 x Rod lense	110 x Rod lense	76 x Rod lense	113,5 x Rod lense
Mechanical Dimensions (Width x Length x Height) (mm)	110 x 23 x 120	76 x 28 x 150	110 x 28 x 150	76 x 33 x 150	113,5 x 33 x 150
Peak Irradiance (W/cm ²)	1,5W @ 5nm @385/395/405nm	3W @ 10nm @385/395/405nm	3W @ 10nm @385/395/405nm	4,5W @ 5nm @385/395/405nm	4,5W @ 5nm @385/395/405nm

High accumulated irradiance (dose amount) along the short axis is most suitable for inkjet printers or other applications where quick drying is required.

HD Type (High Dose Type)

E Series	E 110 HD	E 075 II HD	E 110 II HD	E 075Z HD	E 110Z HD
Cooling Type	Air Cooling				
Size of the Window (mm)	109 x 10	75 x 10	109 x 10	75 x 14	112,5 x 14
Mechanical Dimensions (Width x Length x Height) (mm)	110 x 23 x 115	76 x 28 x 135	110 x 28 x 135	76 x 33 x 135	113,5 x 33 x 135
Peak Irradiance (W/cm ²)	3W (Window) @385/395/405nm 1,8W (Window) @365nm	7W (Window) @385/395/405nm 4,2W (Window) @365nm	7W (Window) @385/395/405nm 4,2W (Window) @365nm	7W (Window) @385/395/405nm 4,2W (Window) @365nm	7W (Window) @385/395/405nm 4,2W (Window) @365nm

High peak irradiance is achieved by focusing the light using an integrated rod.

The High Condensing (HC) type is most suitable for UV curing or other side emitting applications.

HC (High Condensing Type)

E Series	E 110 HC	E 075 II HC	E 110 II HC	E 075Z HC	E 110Z HC
Cooling Type	Air Cooling				
Size of the Window (mm)	110 x Rod lense	76 x Rod lense	110 x Rod lense	76 x Rod lense	113,5 x Rod lense
Mechanical Dimensions (Width x Length x Height) (mm)	110 x 23 x 123	76 x 28 x 150	110 x 28 x 150	76 x 33 x 149	113,5 x 33 x 149
Peak Irradiance (W/cm ²)	3W @ 5nm @385/395/405nm	4W @ 10nm @385/395/405nm	4W @ 10nm @385/395/405nm	455W @ 5nm @385/395/405nm	5,5W @ 5nm @385/395/405nm

A Series (Water Cooling)

A Series	A 90			
Cooling Type	Water Cooling			
Size of the Window (mm)	93,4 x 23			
Mechanical Dimensions (Width x Length x Height) (mm)	150,4 x 70,4 x 80			
Peak Wavelength (nm)	365	385	395	405
Peak Irradiance (W/cm ²)	12,0	20,0	20,0	20,0

- Super High Power Density Up to 21W/cm²
- Operates on 100-240 VAC 50/60Hz



UV STERILIZERS

The technology of UVC sterilization has come a long way. The mercury lamp still today is the predominant source of UVC radiation. With the development of semiconductor technology AlGaIn has been reached the construction of UVC radiation chips

ULTRAVIOLET LED STERILIZER

Until now, all sterilizers use mercury lamp technology or its variants as a source of germicidal radiation, while the new Ultraviolet LED Sterilizer uses the technology of the AlGaIn semiconductor more advanced to build UVC radiation chips.

The Portable Sterilizer uses an advanced solid state AlGaIn quantum as the radiation source. The radiation source consists of a single module with 3 semiconductor chips. Two of the chips emit a germicidal (280 nm) UVC wavelength that is virtually invisible to the human eye, while the other chip emits in the visible range of 395 nm UVA, which also serves as an indicator lamp.

