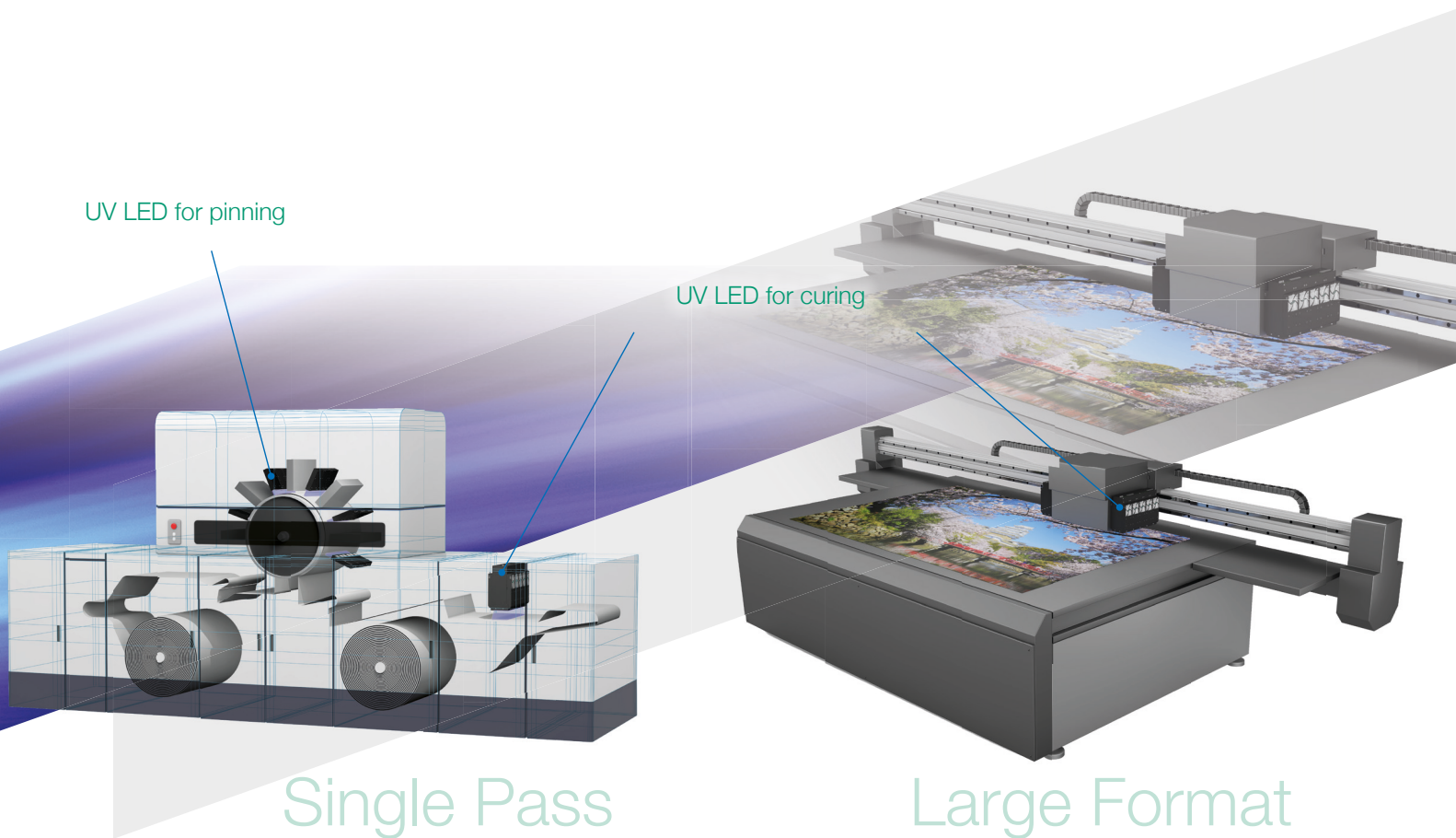


The new UniJet series UV LED high power modules

For the printing industry



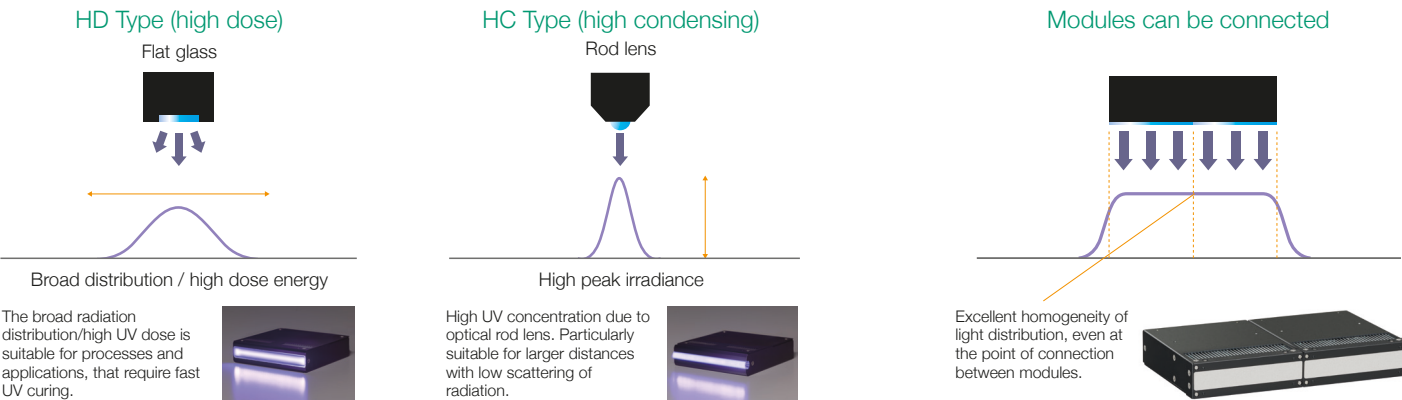
UV LED modules are used for curing UV reactive inks, lacquers and coatings, as well as UV adhesives and potting compounds. Typical applications include inkjet printing processes and surface coatings or finishes. Ushio has decades of experience and invests continuously in research and development. With the new UV LED UniJet series, the company offers a further optimised product portfolio. The modules are characterised by a compact and lightweight design, dimmability, peak irradiance, stability and homogeneous radiation distribution as well as a service life of over 10,000 hours. All modules are available with different UV doses and intensities and in various standard sizes.

UniJet E series

Specially designed for pinning and 3D printing processes. HD (high dose) versions with high accumulation of UV irradiance over a wider area, HC (high condensing) versions for high peak irradiance through line-shaped focussing of the UV radiation. Flexible and optimised linking of individual modules with excellent homogeneity of light distribution, even at the point of connection between modules.

Features

- ◆ 10-100% dimmable
- ◆ Optimised linking through frameless design
- ◆ Available in HD and HC version



Technical data E series Standard type (Sd)

E series		HD		HC	
Standard type (Sd)		E075Sd HD	E110Sd HD	E075Sd HC	E110Sd HC
Window size (mm)		75x17	108x17	76xØ10	109xØ10
Length (mm)		78	111	78	111
Depth (mm)		33			
Height (mm)		134.5		143.2	
Peak irradiance (W/cm²)	365 nm	8.4 (WD=0 mm) / 3.5 (WD=5 mm) *1		6.0 (WD=10 mm) *1	
	385 nm	10.8 (WD=0 mm) / 4.6 (WD=5 mm) *1		7.2 (WD=10 mm) *1	
	395 nm	12.1 (WD=0 mm) / 5.1 (WD=5 mm) *1		8.5 (WD=10 mm) *1	

Technical data E series High-power type (Hi)

E series		HD		HC	
High-power type (Hi)		E075Hi HD	E110Hi HD	E075Hi HC	E110Hi HC
Window size (mm)		75x17	108x17	76xØ10	109xØ10
Length (mm)		78	111	78	111
Depth (mm)		33			
Height (mm)		134.5		148.8	
Peak irradiance (W/cm²)	365 nm	7.1 (WD=0 mm) / 5.0 (WD=5 mm) *1		5.2 (WD=5 mm) *1	
	385 nm	8.1 (WD=0 mm) / 5.3 (WD=5 mm) *1		6.4 (WD=5 mm) *1	
	395 nm	9.1 (WD=0 mm) / 6.0 (WD=5 mm) *1		7.2 (WD=5 mm) *1	
	405 nm	9.1 (WD=0 mm) / 6.0 (WD=5 mm) *1		7.2 (WD=5 mm) *1	

*1 WD=Working distance. Reference value based on measurement by Ushio.

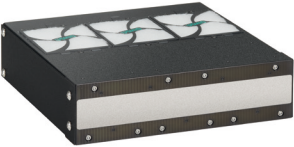
The High-power (Hi) type has a 50% higher UV dose than the Standard type (Sd) and is therefore particularly suitable for applications that require a higher curing energy such as low migration inks.

UniJet iC series

Particularly lightweight and air-cooled modules for final curing applications. Due to their compact size and reduced weight, these LED modules are particularly suitable for applications on print carriages.

Features

- ◆ Industry's smallest model for final cure
- ◆ Intensity of up to 14.5 W/cm² at a working distance of 5 mm
- ◆ 10-100% dimmable
- ◆ Compact design, lightweight
- ◆ Optimised linking through frameless design



Technical data

iC series		i075C	i150C	i225C	i300C	i375C
Window size (mm)		73x29	148x29	223x29	298x29	373x29
Length (mm)		78	152	227	302	377
Depth (mm)		230				
Height (mm)		60				
Peak irradiance (W/cm²)	365 nm	12.0 (WD=0 mm) / 9.5 (WD=5 mm) *1				
	385 nm	16.5 (WD=0 mm) / 13.0 (WD=5 mm) *1				
	395 nm	18.0 (WD=0 mm) / 14.5 (WD=5 mm) *1				

*1 WD=Working distance. Reference value based on measurement by Ushio.

UniJet iIII series

Air-cooled modules with high intensity and dose.
Low intensity loss even at longer working distances.

Features

- ◆ Intensity of up to 17.4 W/cm² at a working distance of 5 mm
- ◆ Less than 20% intensity loss up to a working distance of 15 mm
- ◆ Reduced operating noise due to temperature-controlled cooling
- ◆ 14-100% dimmable



Technical data

iIII series		i075III	i150III	i225III	i300III	i375III	i450III	i525III	i600III	i675III	i750III
Window size (mm)		75x40	150x40	225x40	300x40	375x40	450x40	525x40	600x40	675x40	750x40
Length (mm)		77	152	227	302	377	452	527	602	677	752
Depth (mm)		243									
Height (mm)		136									
Peak irradiance (W/cm²)	365 nm	11.0 (WD=0 mm) / 9.5 (WD=5 mm) *1									
	385 nm	17.0 (WD=0 mm) / 17.4 (WD=5 mm) *1									
	395 nm	17.0 (WD=0 mm) / 17.4 (WD=5 mm) *1									

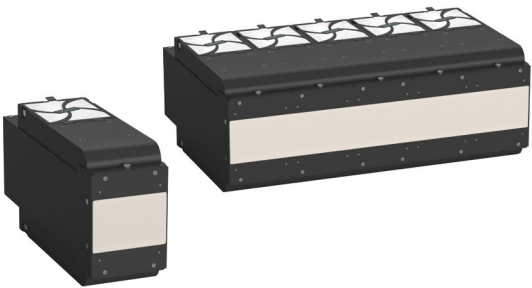
*1 WD=Working distance. Reference value based on measurement by Ushio.

UniJet iIV series

By using highly efficient components, it was possible to achieve energy-saving operation while at the same time reducing the size of the modules. Due to their high intensity and high dose, the modules can be used instead of water-cooled models or conventional UV lamps.

Features

- ◆ Intensity of up to 18.5 W/cm² at a working distance of 5 mm
- ◆ Highest dose of the industry: Achieves approx. twice the UV dose compared to the less expensive iC series
- ◆ Lightweight and compact design: 25% more compact and lighter than iIII modules
- ◆ Reduced operating noise due to temperature-controlled cooling
- ◆ 12-100% dimmable @ 395 and 385 nm; 17-100% dimmable @ 365 nm



Technical data

iIV series		i075iV	i150iV	i225iV	i300iV	i375iV	i450iV	i525iV
Window size (mm)		75x52	150x52	225x52	300x52	375x52	450x52	525x52
Length (mm)		77	152	227	302	377	452	527
Depth (mm)		256,4						
Height (mm)		137						
Peak irradiance (W/cm²)	365 nm	13.5 (WD=0 mm) / 13.0 (WD=5 mm) *1						
	385 nm	17.0 (WD=0 mm) / 16.0 (WD=5 mm) *1						
	395 nm	19.5 (WD=0 mm) / 18.5 (WD=5 mm) *1						

*1 WD=Working distance. Reference value based on measurement by Ushio.

Further information

For more information on our new UniJet UV LED series, visit our website or contact us directly.

Developing Solutions Together

Ushio is a partner that listens to your ideas and requirements. Let us optimise your processes according to your specifications and expectations. Use our expertise to develop a tailor-made solution that matches your needs.



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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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