

Experience the outstanding curing performance
of Kyocera's UV LED light source.

Demo Unit Loan Service



How about starting with a curing test?

We offer a demo unit loan service for UV LED light sources.
Please feel free to contact us if you are considering using UV LED
light sources for the first time or replacing your current UV lamps.

Simple Curing Test



For customers who cannot perform curing tests in-house

At Kyocera, we offer consultations for simple curing tests using our
UV LED light sources. If you provide us with UV-curable resins,
inks, or substrates, we can conduct simple curing tests at Kyocera.
We also provide on-site evaluations, so please feel free to contact us
at any time.



Contact Us

Please feel free to contact us with any questions.
Corporate Printing Device Group



WEB Site of
UV LED Light Source



Contact Form

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* Duplication or reproduction of any part of this data sheet without approval is prohibited. * Product names and specifications are subject to change without prior notice for further improvement. * Please refer to the handling precautions in the instruction manual or specifications when using the product. * All graphs and data in this datasheet are based on Kyocera research unless otherwise noted.

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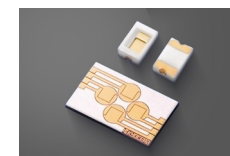
UV LED Light Source

Kyocera's UV LED Light Sources are Illuminating a New Future



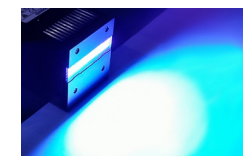
Demo Unit Loan Service
and Simple Curing Test
Please Consult Us

Kyocera's UV LED light source technology
for high heat dissipation and high-density mounting



In-House Ceramic Substrate Technology

Since our company's founding in 1959, Kyocera has designed and manufactured ceramic substrates in-house, utilizing highly advanced fine ceramics technology.



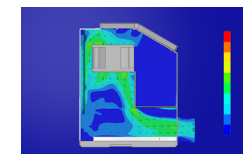
Stable Optical Performance

Ceramic substrate with high thermal conductivity improves heat dissipation. Stable output is achieved by a high heat dissipation design.



LED High-Density Mounting

High-density, high-precision LED chip mounting technology cultivated over 30 years achieves high curing performance.



Simulation Technology

To ensure the required characteristics, each component is optimally designed using fluid, thermal, and optical simulations.



Nitrogen Purge

Kyocera's nitrogen purge technology solves "oxygen inhibition", which leads to poor curing of UV inks, by efficiently supplying nitrogen to the UV irradiation area and reducing oxygen concentration to achieve outstanding curing performance.

Wide Lineup Ranging from Main Curing to Pre-Curing



For Main Curing
Realization of high efficiency and high output using proprietary ceramic technology.



With Nitrogen Purge Unit
Integrated structure with UV LED light source improves ink curing performance against oxygen inhibition.



For Pre-Curing (Pinning)
Prevents color mixing between colors and contributes to improved print quality.




		Offers revolutionary curing performance and compact size			High irradiance, compact and lightweight			Achied high dose of 400 mJ/cm2 (In case of center wavelength 385/395 nm)			High nitrogen purging effect through the proximity of the nitrogen outlet and the irradiation surface						Space saving and high output			
Specifications	Cooling System		Air cooling																	
	Center Wavelength (nm)		365±5	385±5	395±5	365±5	385±5	395±5	365±5	385±5	395±5	365±5	385±5	395±5	365±5	385±5	395±5	365±5	385±5	395±5
	External Dimensions (W x D x H *Excluding Protrusions)		120.0 × 52.0 × 151.0 mm			80.3 × 88.0 × 150.5 mm			80.3 × 140.0 × 170.5 mm			80.3 × 109.7 × 161.2 mm			80.3 × 161.7 × 181.7 mm			120.0 x 19.0 (Fan 35.0) x 219.0 mm		
	Irradiation Window Size (D)		30.0 mm			20.0 mm			30.0 mm			20.0 mm			30.0 mm			13.0 mm		
	Weight		1.0 kg			1.0 kg			1.5 kg			1.3 kg			1.8 kg			0.5 kg		
	Power Consumption		1.2 kW			0.56 kW			0.86 kW			0.56 kW			0.86 kW			0.17 kW		
	Interlock		Abnormal temperature, current, or air flow																	
	Dimming Voltage		1 V (10 %) ~ 10 V (100 %)																	
	Recommended Nitrogen Purity * 1											99.9 % or more								
	Ambient Temperature and Humidity		Operating	0 ~ 40 °C / 30 ~ 85 % (Abnormal temperature, current, or air flow)																
Storing			0 ~ 50 °C / 30 ~ 85 % (Abnormal temperature, current, or air flow)																	
Characteristics	UV Light Irradiation Width		120 mm			80 mm												120 mm		
	Peak Irradiance (W/cm2)		WD = 0mm	13	20	16	24	16	24	16	24	16	24	9	12	4	6			
			WD = 10mm	9	12	6	8	9	12	6	8	9	12	1	1.5					
	Dose (mJ/cm2) * 2		300	400	200	270	300	400	200	270	300	400	25	35						
	Estimated Life Expectancy		20,000 hours (at 70% relative to initial peak irradiance)			15,000 hours (at 70% relative to initial peak irradiance)														

The value of peak irradiance and dose is the one immediately after lighting. UIT- θ LED by Ushio Electric is used for UV irradiance meter. *1 Depends on ink and printing conditions. *2 Transport speed: 50 m/minute


Applications

Kyocera UV LED light sources are used in a wide variety of applications, taking advantage of our technology's high efficiency and output.

Printing Applications




Analog Printing




Digital Inkjet Printing

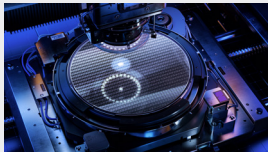
Other Industrial Applications



Coating



Adhesion



Lithography Devices