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

Demo Unit Loan Service

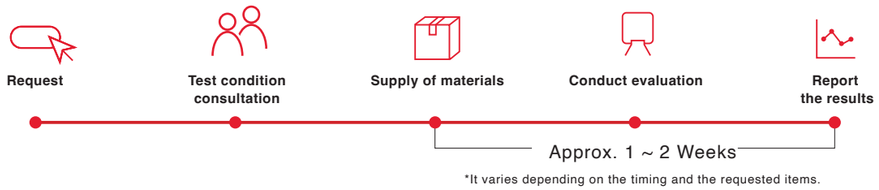
How about starting with a curing test?

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.



*It varies depending on the timing and the requested items.

Contact Us

Please feel free to contact us with any questions.

Corporate Printing Device Group

WEB Site of UV LED Light Source

Contact Form

KYOCERA Corporation

Head Office: 6 Takeda Tobadono-cho,
Fushimi-ku, Kyoto 612-8501 Japan

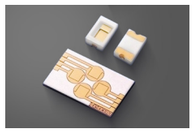
KYOCERA

UV LED Light Source

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

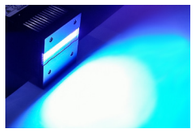
Demo Unit Loan Service and Simple Curing Test
Please Consult Us

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.

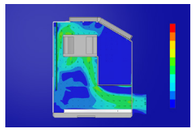


Stable Optical Performance

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.

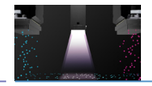
Wide Lineup Ranging from Main Curing to Pre-Curing

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.

G7A

G5A

G5H

G5AN

G5HN

G5AP

		Offers revolutionary curing performance and compact size			High irradiance, compact and lightweight			Achived 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)																	
	Ambient Temperature and Humidity Storing	0 ~ 50 °C / 30 ~ 85 % (Abnormal temperature, current, or air flow)																	
Characteristics	**UV Light Irradiation Width**	120 mm			80 mm												120 mm		
	Peak Irradience (W/cm2) WD = 0mm	13	20		16	24		16	24		16	24		16	24		4	6	
	Peak Irradience (W/cm2) 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

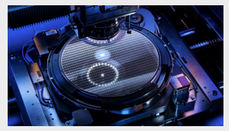
Analog Printing

Digital Inkjet Printing

Other Industrial Applications

Coating

Adhesion



Lithography Devices