UV Lights that use high output UV-LEDs


LDR2-100UV2-365-W


HLV2-24UV2-365


LDR2-60UV2-365-W


LN-128UV2-365
(Convergent type)


LDL-138X12UV2-365

Applications Inspection for detecting seal material through fluorescent excitation, reading invisible code, inspections using differences in spectral reflectivity, and inspections using differences in scattering rates, etc.

For fluorescent observation and observation using scattering rates

Using high output UV-LEDs, we significantly increased output compared to conventional products.

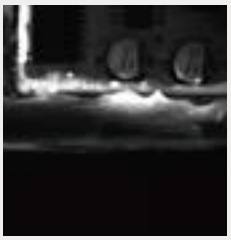
Comparison of imaging with conventional product

Imaging example	Adhesive application inspection
Workpiece	Circuit board

Conventional product (LDR2-90UV365)


The conventional product lacks output and fluorescent observation is difficult.

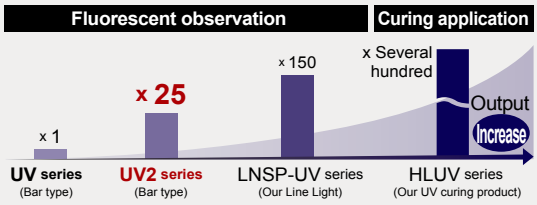
LDR2-100UV2-365-W


The increased output of the high output UV Light allows for fluorescent observation.

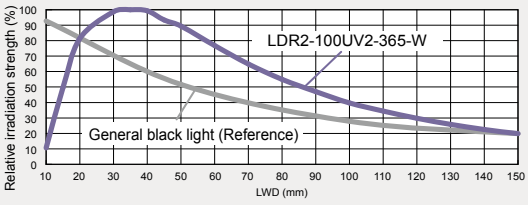
Using high output UV-LEDs

The high output UV illumination allows for stable fluorescent observation. Ring, bar, and spot formats are available.

Image comparing output of UV Lights by application



Comparison of output between a high output UV Light and a black light



* The data included is for reference only and does not guarantee the quality of this product.

Custom orders

Please contact your CCS sales representative.

E.g.: Different shape

Format/ material

Created a format to match the needs

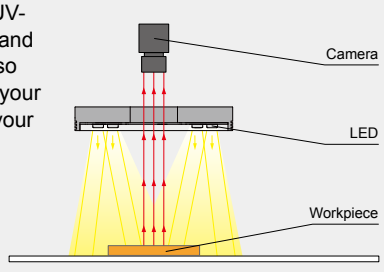
Customizable items

External/internal diameter | Wavelength/ color
Increase output | Cable length
Illuminating angle | Format/ material
Connector format | Installation/ mounting
Etc.

Example configuration

Ring Lights that use high output UV-LEDs. Bar types and spot types are also available. Select your format to match your needs.

LDR2-100UV2-365-W

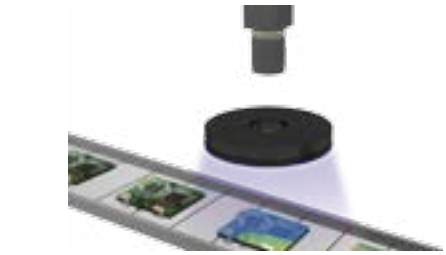


We have various materials.

PDF Drawings | DXF Drawings | 3D CAD | Instruction Guides | Product Fliers | Imaging Samples | Data Sheets | Examples of Custom Ordered Products

Download here.
http://www.ccs-grp.com/dl/

Imaging example : Imaging of the application of coating material on a circuit board



Description	Visual inspection
Workpiece	Circuit board
Before the proposal	LED Ultraviolet Light
After the proposal	LDR2-100UV2-365-W
Result	Fluorescent excitation via ultraviolet lighting

■ Workpiece image

Circuit board

■ General fluorescent lamp

With a general fluorescent lamp, fluorescent observation is difficult.

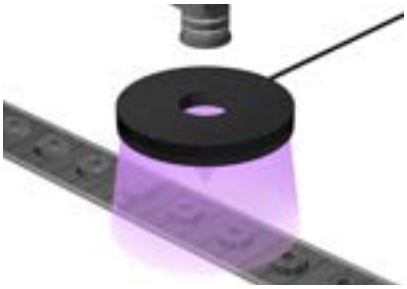
■ LDR2-100UV2-365-W

With a high output UV Light, fluorescent observation is possible.

* Use an optional filter for imaging with increased contrast.

* This image was altered at our company for display purposes.

Imaging example : Imaging of grease application on a bearing



Description	Visual inspection
Workpiece	Bearing
Before the proposal	LED visible light lighting
After the proposal	LDR2-100UV2-365-W
Result	Fluorescent excitation via ultraviolet lighting

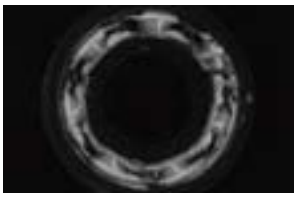
■ Workpiece image

Bearing

■ LED visible light lighting

With white light, it is difficult to capture the application of the grease.

■ LDR2-100UV2-365-W



With a high output UV Light, fluorescent observation is possible.

* Use an optional filter for imaging with increased contrast.

* This image was altered at our company for display purposes.

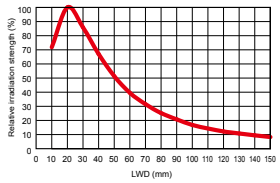
Data: Relative irradiation strength graph/Uniformity graph (Representative example)

* The graph included is for reference only and does not guarantee the quality of this product.

■ LDR2-60UV2-365-W

Relative irradiation strength graph (LWD Characteristics) *2 *1

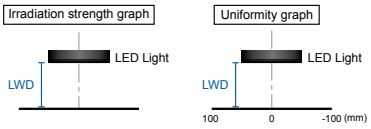
*1: Irradiation strength on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece

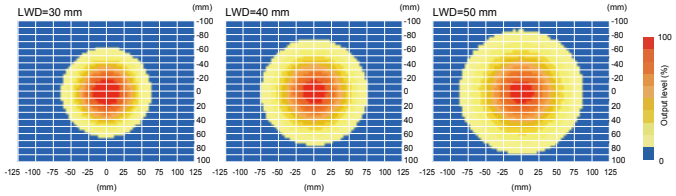


* Simulation value
(This does not guarantee product quality.)

Uniformity graph (Relative irradiation strength)

Image of data measuring environment





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UV2 series

Refer to our website for product details.

CCS UV2 ▶ Search

Use a search engine.

You can also use your smartphone or cell phone.

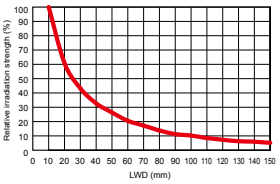
Data: Relative irradiation strength graph/Uniformity graph (Representative example)

* The graph included is for reference only and does not guarantee the quality of this product.

LDL-205X12UV2-365

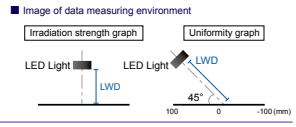
Relative irradiation strength graph (LWD Characteristics) *2

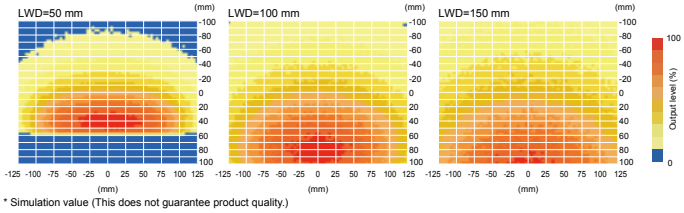
*1: Irradiation strength on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece



* Simulation value (This does not guarantee product quality.)

Uniformity graph (Relative irradiation strength)





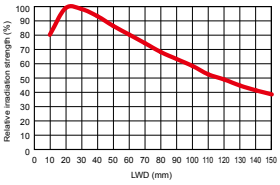
* Simulation value (This does not guarantee product quality.)

LN-195UV2-365

(Convergent type)

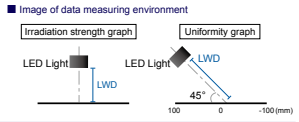
Relative irradiation strength graph (LWD Characteristics) *2

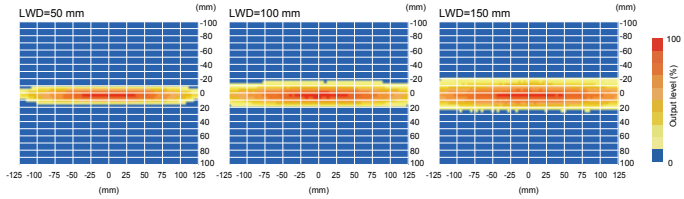
*1: Irradiation strength on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece



* Simulation value (This does not guarantee product quality.)

Uniformity graph (Relative irradiation strength)





* Simulation value (This does not guarantee product quality.)

Cautionary information regarding UV products

- Do not expose your eyes or skin to direct UV irradiation.
- When using an UV illumination, be sure to wear UV blocking eye wear and avoid looking at irradiating parts (emitting parts).
- Do not turn on UV-LED irradiating parts (emitting parts) if they are facing someone's eyes.
- Wear long sleeves and gloves to protect your skin from UV irradiation.
- Thoroughly educate all those involved near the product about the dangers of UV LEDs.

(E.g.) UV blocking eye wear

Options

Blocks light with a wavelength of 420 nm or lower, transmits light with a longer wavelength.

Ultraviolet cutting filter
L42 series

Model name	Size
L42-25	M25.5 P0.5
L42-27	M27.0 P0.5
L42-30	M30.5 P0.5
L42-40	M40.5 P0.5
L42-46	M46.0 P0.75

▶ P.189

Transmits light with wavelength range of approx. 280 nm to 380 nm, centered around 340 nm.

Ultraviolet transmission filter
U340 series

Model name	Size
U340-25	M25.5 P0.5
U340-27	M27.0 P0.5
U340-30	M30.5 P0.5
U340-40	M40.5 P0.5
U340-46	M46.0 P0.75

▶ P.189

Lineup

Series	Model name	LED color	Power consumption	Peak wavelength	Options	Recommended Control Units	Weight
LDR2	LDR2-60UV2-365-W	Ultraviolet	24 V / 7.6 W	365 nm	Ultraviolet cutting filter Ultraviolet transmission filter	PD3 CC-ST-1024* PSB * Can only use the 60 size.	170 g
	LDR2-100UV2-365-W		24 V / 23 W				250 g
LDL	LDL-71X12UV2-365	Ultraviolet	24 V / 7.6 W	365 nm	Ultraviolet cutting filter Ultraviolet transmission filter	PD3 CC-ST-1024* PSB * Can only use the 71 x 12 size.	300 g
	LDL-138X12UV2-365		24 V / 16 W				500 g
	LDL-205X12UV2-365		24 V / 23 W				700 g
LN	LN-61UV2-365	Ultraviolet	24 V / 7.6 W	365 nm	Ultraviolet cutting filter Ultraviolet transmission filter	PD3 CC-ST-1024* PSB * Can only use the 61 size.	450 g
	LN-128UV2-365		24 V / 16 W				750 g
	LN-195UV2-365		24 V / 23 W				1,050 g
HLV2	HLV2-24UV2-365	Ultraviolet	0.7 A / 3.2 W	365 nm	Ultraviolet cutting filter Ultraviolet transmission filter	PD3 PJ	50 g

LED Properties: Light Spectrum ▶ P.208 | Extension Cables ▶ P.196 | Control Unit Selection Guide ▶ P.155 | Control Unit Page ▶ P.159

* Please inquire if you would like to use in combination with a Strobe Control Unit (overdrive type).

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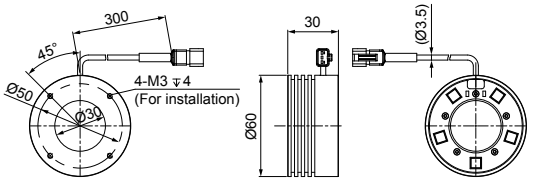
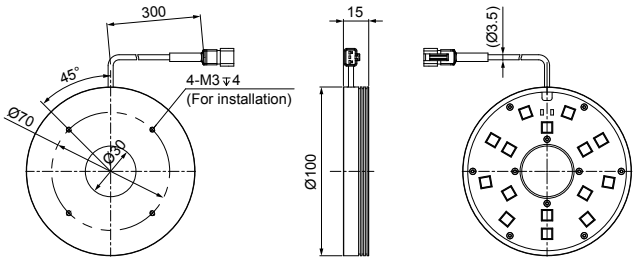
Dimensions (mm)

Ring Lights

LDR2-60UV2-365-W

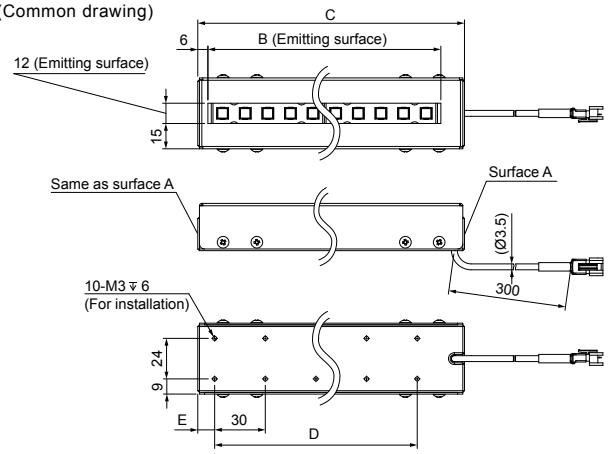


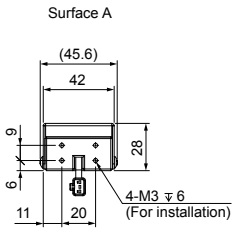
LDR2-100UV2-365-W



Bar Lights

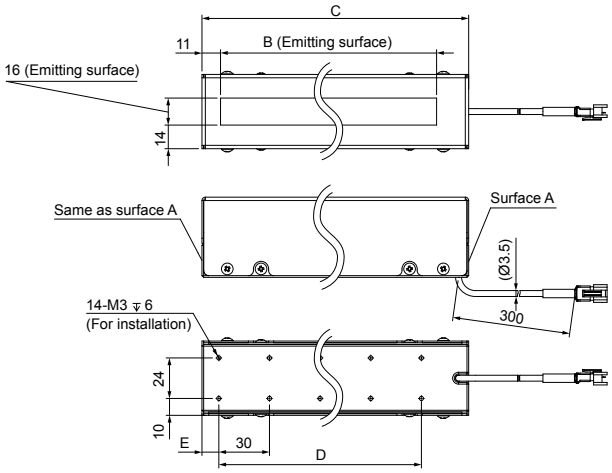
(Common drawing)

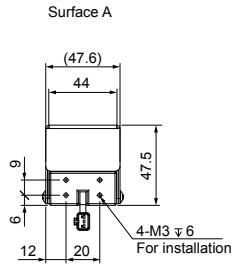




Model name	B	C	D	E
LDL-71X12UV2-365	71	91	P30x2=60	10
LDL-138X12UV2-365	138	158	P30x4=120	10
LDL-205X12UV2-365	205	225	P30x6=180	20

Convergent type (Common drawing)





Model name	B	C	D	E
LN-61UV2-365	61	91	P30x2=60	10
LN-128UV2-365	128	158	P30x4=120	10
LN-195UV2-365	195	225	P30x6=180	20

Spot Lights

HLV2-24UV2-365