

Ultraviolet Light UV

DC 24V products available



For inspection with higher precision than the visible light

Wavelength of 365, 375, and 405 are available. The UV-365 type and UV-375 type use can-type LED elements with a peak wavelength of 365nm and 375nm respectively. The UV-405 type uses a $\phi 3$ mold LED element whose mold size is the same as that of visible light, with a peak wavelength of 405nm, and almost all the standard types, such as ring, bar, coaxial incident-light lighting, and dome type can be manufactured, with the same number of elements as for the visible light. Compared with the lighting of a can-type LED element, it irradiates high output and highly uniform ultraviolet light because they are mounted much more in density. Since a visible light camera can catch 405nm, it is not necessary to prepare expensive cameras or lenses for ultraviolet light. This light fits for inspection of fine defects which is difficult with visible light, check of application state of bond and glue using excitation of fluorescent material, and inspection of foreign material such as dust.

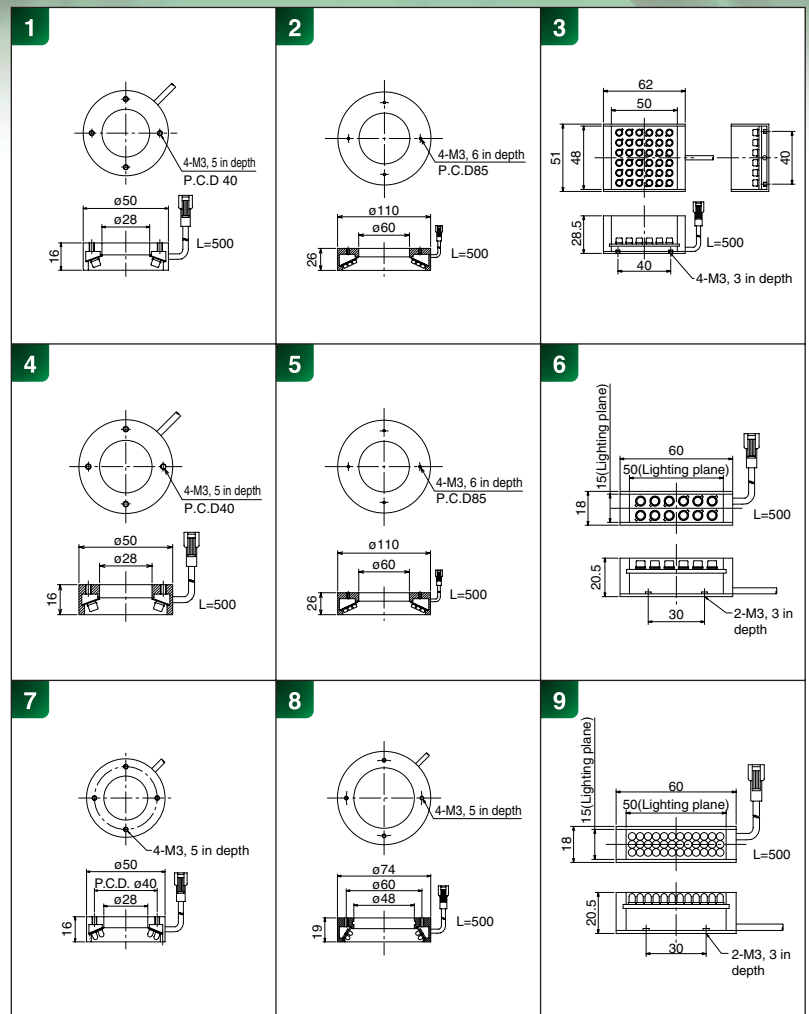
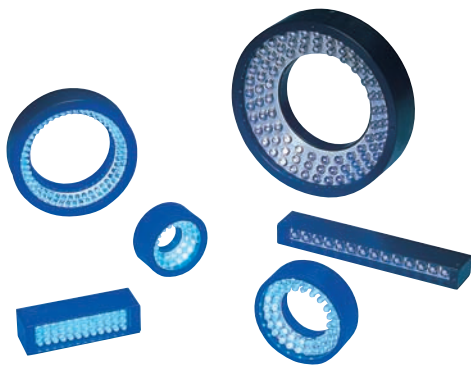
Unit: mm

Model (12V)	Number of LEDs	Power Consumption (W)	Wavelength (nm)	Outline drawing	Model (24V)
IDR-50/28UV-365	18	1.5	365	1	IDR-50UVHV-365
IDR-110/60UV-365	90	7.2		2	IDR-110UVHV-365
IDBA-C50/50UV-365	36	2.9	375	3	IDBA-C5050UVHV-365
IDR-50/28UV-375	18	1.5		4	IDR-50UVHV-375
IDR-110/60UV-375	90	7.2	5	IDR-110UVHV-375	
IDBA-C50/15UV-375	12	1.0	405	6	IDBA-C5015UVHV-375
IDR-50/28UV-405	45	3.6		7	-
IDR-LA74/48UV-405	90	7.2	8	-	
IDBA-C50/15UV-405	36	2.9	9	-	

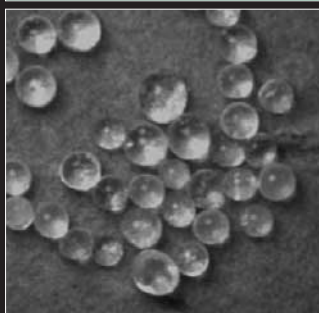
***Do not look into either direct light or mirror-reflected light of the light source. When using a UV light source, be sure to wear protective goggles.**

For other profiles, please contact us.

Number of LEDs, power consumption, SAG value, and outline drawing are for DC12V products. Please contact us for specifications of DC24V products.

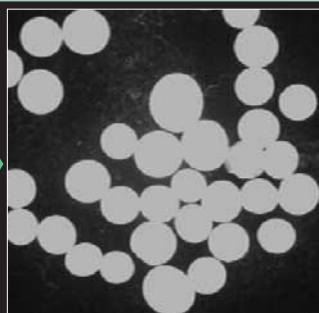


Example of the Image Photographed



It is absolutely impossible to recognize using visible light.

Work: Drying agent
Light: IDR-LA74/48DW



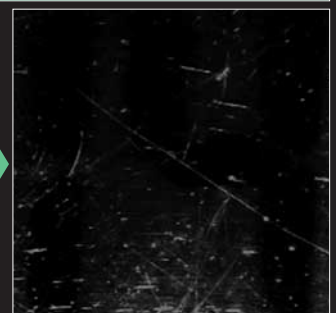
It is possible to recognize due to the surface luminescent effect using ultraviolet light.

Work: Drying agent
Light: IDR-LA74/48UV-405



It is impossible to photograph a fine defect with red lighting.

Work: Dial plate surface of a clock (acrylic).
Light: IDR-50/28R



Fine defects can be photographed using ultraviolet lighting.

Work: Dial plate surface of a clock (acrylic).
Light: IDR-50/28UV-405