

Ultraviolet Lights

UV Series

Spark-prevention structure achieves enhanced safety and reliability

Use of an original UV light LED with a peak wavelength of 365nm and a directional pattern of $\pm 20^\circ$.



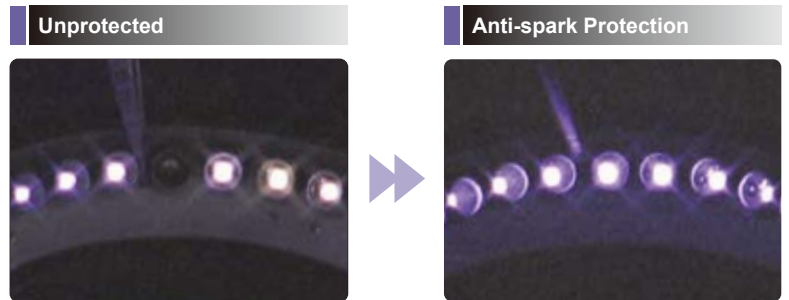
Employment of original ultraviolet LED achieving even higher safety and reliability

CCS's proprietary LED package with anti-spark protection



While an LED usually has two leads, CCS's original ultraviolet LED is provided with an additional lead. This unique structure has achieved a spark prevention effect.

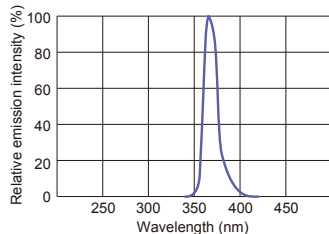
Unprotected UV Light Model vs. New Model with Anti-spark Protection



Many ultraviolet LEDs have packages made from iron alloy, making them vulnerable to static electricity. This has created a major problem with individual LED failure due to a spark occurring when there is contact with a piece of conductive material. CCS's original ultraviolet LED has eliminated this problem by employing a proprietary anti-spark protection feature.

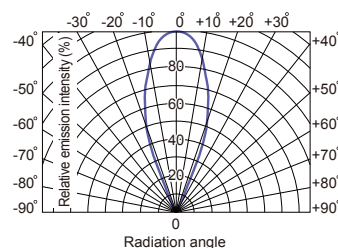
Wavelength of 365 nm and LED light spread of $\pm 20^\circ$

Distribution of emission spectrum of UV light LED



The original UV light LED is available with a peak wavelength of 365nm and a directional pattern of $\pm 20^\circ$. The use of a single wavelength as a characteristic of the LED gives a more precise image of the characteristics of a workpiece compared with the use of conventional black lights, and allows for stable shooting over an extended period of time. A wide product lineup offers optimum lighting solutions best suited to a variety of inspection objects, inspection environments and optical systems.

Directional pattern of UV light LED



Option filter

Ultraviolet transmission filter



U340 Series

Model	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

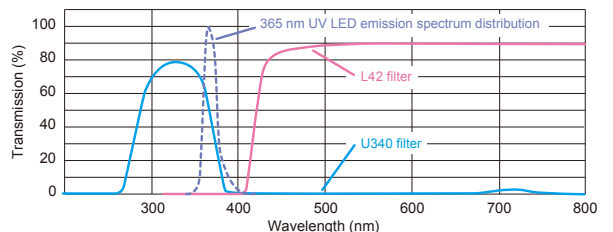
Ultraviolet cutting filter



L42 Series

Model	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

Filter characteristic vs. UV LED emission spectrum distribution



Product Lineup Table

Direct Number : You can easily access the web page providing information on any desired product by simply entering the 7-digit direct number in the space provided. (Refer to the back cover of this brochure.)

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LDR2	1002639	LDR2-32UV365	●	24V / 0.4W	—	1
	1002640	LDR2-42UV365	●	24V / 0.8W	—	
	1002641	LDR2-50UV365	●	24V / 1.2W	—	
	1002605	LDR2-70UV365	●	24V / 3.1W	—	2
	1002642	LDR2-90UV365	●	24V / 3.8W	—	
	1002638	LDR2-90-30UV365	●	24V / 6.1W	—	1
	1002643	LDR2-120UV365	●	24V / 9.5W	—	
SQR	1002649	SQR-56UV365	●	24V / 1.6W	—	4
	1002606	LDR2-74UV365-LA	●	24V / 1.9W	—	5
LDR2-LA	1002637	LDR2-100UV365-LA	●	24V / 4.6W	—	6
	1002634	LDR2-132UV365-LA	●	24V / 6.9W	—	
	1002636	LDR2-170UV365-LA	●	24V / 9.9W	—	
	1002635	LDR2-208UV365-LA	●	24V / 12W	—	
	1002630	LDR-75UV365-LA-1	●	24V / 1.6W	—	
LDR-LA-1	1002629	LDR-96UV365-LA-1	●	24V / 2.3W	—	8
	1002632	LDR-146UV365-LA-1	●	24V / 3.1W	—	

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LDR-LA-1	1002633	LDR-176UV365-LA-1	●	24V / 3.8W	—	8
	1002631	LDR-206UV365-LA-1	●	24V / 4.6W	—	
LDL	1002648	LDL-34×8UV365	●	24V / 0.4W	—	9
	1002604	LDL-42×15UV365	●	24V / 0.8W	—	10
	1002603	LDL-74×27UV365	●	24V / 3.1W	—	11
	1002602	LDL-82×15UV365	●	24V / 1.6W	—	12
	1002647	LDL-130×15UV365	●	24V / 2.3W	—	13
	1002628	LDL-180×16UV365	●	24V / 3.8W	—	14
	1002644	LDQ-60-25UV365	●	24V / 1.6W	—	15
	1002645	LDQ-78UV365	●	24V / 1.6W	—	16
LDQ	1002608	LDQ-100UV365	●	24V / 3.1W	—	17
	1002607	LDQ-150UV365	●	24V / 6.1W	—	18
	1002646	LDQ-200UV365	●	24V / 9.1W	—	19
	LN	1002650	LN-200UV365	●	24V / 1.9W	—
LSP	1002651	LSP-41UV365	●	24V / 1.2W	—	21

Dimension Diagrams (Unit: mm)

1.

Model Name	A	B	C	D
LDR2-32UV365	Ø32	Ø10	16	P.C.D.20
LDR2-42UV365	Ø42	Ø18	18	P.C.D.28
LDR2-50UV365	Ø50	Ø28	16	P.C.D.40
LDR2-90UV365	Ø90	Ø50	20	P.C.D.70
LDR2-90-30UV365	Ø90	Ø30	20	P.C.D.70

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Model Name	A	B	C	D
LDR2-100UV365-LA	Ø100	Ø70	22	P.C.D.84
LDR2-132UV365-LA	Ø132	Ø96	22	P.C.D.116
LDR2-170UV365-LA	Ø170	Ø134	22	P.C.D.154
LDR2-208UV365-LA	Ø208	Ø174	22	P.C.D.186

7.

Model Name	A	B	C
LDR-96UV365-LA-1	Ø96	Ø80	Ø60
LDR-146UV365-LA-1	Ø146	Ø130	Ø110
LDR-176UV365-LA-1	Ø176	Ø160	Ø140
LDR-206UV365-LA-1	Ø206	Ø190	Ø170

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