



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 $\pm 20^\circ$.



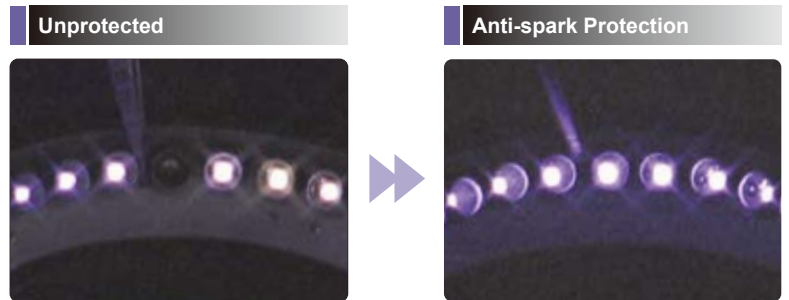
Employment of original ultraviolet LED achieving even higher safety and reliability

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.

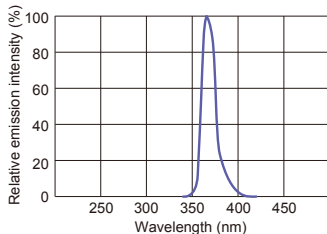
Unprotected UV Light Model vs. New Model with Anti-spark Protection



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.

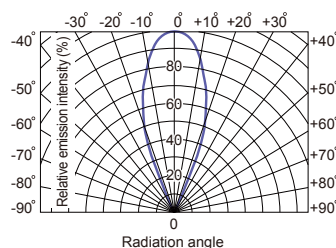
Wavelength of 365 nm and LED light spread of $\pm 20^\circ$

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

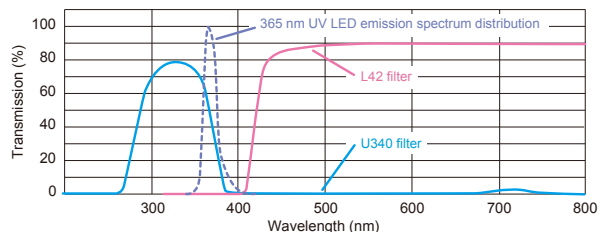
Ultraviolet cutting filter



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



Direct Number : A direct number is a 7-digit number assigned to a CCS product. You can easily access the web page providing information on any desired product by simply entering the direct number in the space provided on the CCS website pages for machine vision. (Refer to the back cover of this brochure.)

Product Lineup Table

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

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8.

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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