

## FOR IMMEDIATE RELEASE

### CCS Expands PF Series High Power Strobe Lights\*<sup>1</sup> for Image Processing Inspections

10 series (76 models) for faster inspection speeds and higher productivity in various applications



From left: L<sup>F</sup>V-G-PF Series coaxial lights for high-resolution cameras, L<sup>F</sup>XV-PF Series flat dome lights, TH-PF Series flat lights, F<sup>P</sup>Q-PF Series low-angle square lights

**Kyoto, Japan, September 29, 2022** – CCS Inc. expanded its PF (Power Flash) Series of LED lighting with 28 new models in various form factors and colors. Combined with existing products, the lineup offers 10 series with 76 models.

\*<sup>1</sup> Light emitted for a specified amount of time in synchronization with a trigger signal









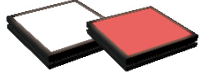



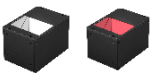
The PF Series is a line of extremely bright LED lighting and power supplies designed exclusively for strobe illumination. It is ideal for high-speed image processing inspections because of its high-power strobing in steps of 0.1  $\mu$ s. Its illuminance is approximately 12 times brighter\*<sup>2</sup> than competitive alternatives, with a peak illuminance of 15.5 million lux\*<sup>3</sup>. Since its release in May 2016, it has become a widely used lighting solution for inspecting electronic components, semiconductors, pharmaceuticals, packages, and more.

\*<sup>2</sup> Based on comparison between LDL2-33X8SW2 + POD-5024-2-PEI strobe overdrive power supply and LDL-PF-33X8SW + PF-A16046-4 dedicated power supply

\*<sup>3</sup> LDL-PF-33X8SW measured at illuminating distance of 10mm

The PF Series now includes flat dome lights (4 sizes), coaxial lights for high-resolution cameras (2 sizes), flat lights (3 sizes), and low-angle square lights (2 sizes). Small sizes of bar lights and diffused ring lights have also been added for precision inspections. Each model is available in red and white LED emission colors. The expanded lineup offers more ways to design high-speed applications.

## Lineup

	Model Name	Size (mm)	LED Emission Color
Ring 	LDR-PF-36□□ LDR-PF-54□□ LDR-PF-75□□	φ36 φ54 φ75	White (SW) Red (RD)
Low-Angle Ring 	LDR-PF-75□□-LA LDR-PF-100□□-LA LDR-PF-150□□-LA	φ75 φ100 φ150	
Diffused Ring 	HPR-PF-50□□ <b>NEW</b> HPR-PF-75□□ HPR-PF-100□□ HPR-PF-150□□ HPR-PF-200□□	φ50 φ75 φ100 φ150 φ200	
Low-Angle Square 	FPQ-PF-32□□ <b>NEW (Custom)</b> FPQ-PF-48□□ <b>NEW</b>	32X32 48X48	
Bar Emitting Width 4 mm 	LDL-PF-19X4□□ <b>NEW (Custom)</b>	19X4	
Bar Emitting Width 8 mm 	LDL-PF-33X8□□ <b>NEW</b>	33X8	
Bar Emitting Width 18 mm 	LDL-PF-52X18□□ LDL-PF-102X18□□ LDL-PF-152X18□□	52X18 102X18 152X18	
Bar Emitting Width 30 mm 	LDL-PF-52X30□□ LDL-PF-102X30□□ LDL-PF-152X30□□	52X30 102X30 152X30	
Flat 	TH-PF-27X27□□ <b>NEW (Custom)</b> TH-PF-51X51□□ <b>NEW (Custom)</b> TH-PF-100X100□□ <b>NEW</b>	27X27 51X51 100X100	
Dome 	HPD-PF-75□□ HPD-PF-100□□ HPD-PF-150□□ HPD-PF-200□□	φ75 φ100 φ150 φ200	
Flat Dome 	LFXV-PF-25□□ <b>NEW (Custom)</b> LFXV-PF-50□□ <b>NEW (Custom)</b> LFXV-PF-75□□ <b>NEW (Custom)</b> LFXV-PF-100□□ <b>NEW</b>	25X25 50X50 75X75 100X100	
Coaxial 	LFV-PF-35□□ LFV-PF-50□□ LFV-PF-70□□ LFV-PF-100□□	34X38 52X52 76X73 102X100	
Coaxial for High-Resolution Cameras 	LFV-G-PF-27□□ <b>NEW (Custom)</b> LFV-G-PF-35□□ <b>NEW</b>	24.7X27 34X38	

\* □□: LED color (RD: Red, SW: White)

From 1993, CCS advanced the machine vision industry by developing LED lighting for inspection that Created Customer Satisfaction for both manufacturers and their consumers, who demanded safe, high-quality goods. Today, CCS leads the machine vision world in innovation with thousands of products including lights, controllers, and accessories. CCS's global network of employees is dedicated to helping manufacturers capture the most important details in an inspection, so that their customers never receive anything less than their highest quality.

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