

Product Introduction

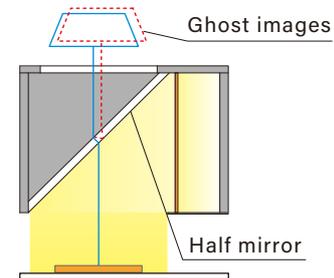


CCS Inc., the leading manufacturer of LED Lighting Solutions for Machine Vision, has released the new LFV3-G Series, a new coaxial lighting series. This new series uses an ultra-thin half mirror and the latest in LED Technology to eliminate ghosting effects when using high-resolution camera's, even when used in high-speed applications.

Thicker half-mirrors in coaxial lights can cause deviations in the light's path. When this happens, a ghost image is produced which can be visible during image acquisition. The use of a thinner half-mirror, coupled with the narrow directionality of the LFV3-G Series, minimizes the risk of ghost images being produced. When used together with a high-resolution camera, the LFV3-G Series will produce clean images with minute details being clear.

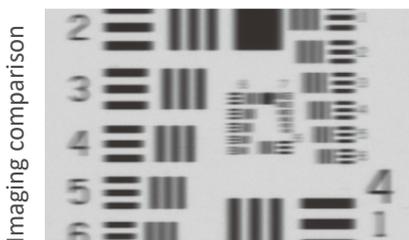
Main Features

- Thin half-mirror to eliminate the creation of ghost images
- Light source with narrow directionality
- Ideally used with high-resolution image sensors
- Protection plate as an option
- Available in 5 different sizes
- Available in Red, White, and Blue

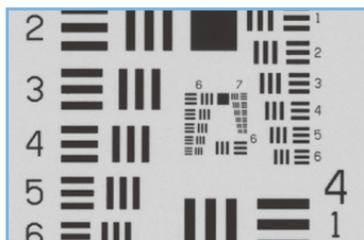


Ghost Image Example

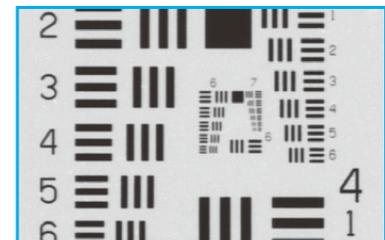
LFV3-50SW(A)



LFV3-G-27SW



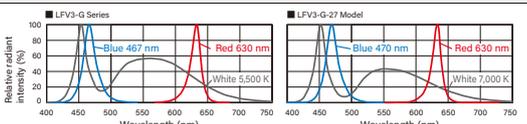
LFV3-50X100SW



(Imaging conditions) Camera: 2448x2048 3,45μm monochrome camera, Lens: 2x telecentric lens, Field of view: 4,2 x 3,5 mm (the image is a cutout of about 1,3 x 10mm at the center), resolution: 1,7μm/pixel, WD: 110mm, LWD: 25mm

* The shutter speed and light intensity are adjusted for each image.

Common Specifications

Input voltage (max.)	24 VDC	Operating environment (indoors only)	Temperature: 0 to 40°C, Humidity: 20 to 85%RH (with no condensation)
Connector	SM connector (SMR-03V-B)	Storage environment	Temperature: -20 to 60°C, Humidity: 20 to 85%RH (with no condensation)
Polarity, signal	1: (+), 2: NC, 3: (-)	Cooling method	Natural air-cooling
CE marking	Safety standard: Conforms to EN 62471	Spectral distribution	
Environmental regulations	RoHS compliant		
Case material	Aluminum alloy, Resin		
Cable length	300 mm		

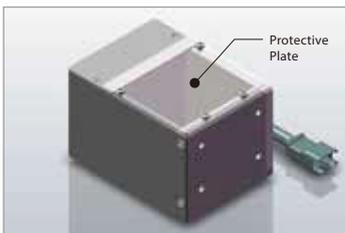
* The data included is for reference only. Actual values may vary.

Product Lineup

Model name	LED color	Power consumption	Peak wavelength / correlated color temperature	Options	Extension cables	Recommended Control Units	Weight
LFV3-G-27RD	Red	24 V / 5.0 W	630 nm	Protective Plate	FCB*3 Straight Cable FCB-W*4 2-Branch Cable FCB-F 4-Branch Cable FRCB Robot Cable *3 The cables with a model name that ends with "-ME7", "-EL2", "-PF", or "-PF-EL9" are not included. *4 The cables with a model name that ends with "-EL2" are not included.	PD3 CC-ST-1024 PSB POD *2	110 g
LFV3-G-27SW	White	24 V / 5.0 W	7,000 K			PD3 CC-ST-1024 *1 PSB POD *2 *1 Only blue can be used.	165 g
LFV3-G-27BL	Blue	24 V / 5.0 W	470 nm			PD3 CC-ST-1024 PSB POD *2	140 g
LFV3-G-30X60RD	Red	24 V / 12 W	630 nm			PD3 CC-ST-1024 PSB POD *2	285 g
LFV3-G-30X60SW	White	24 V / 11 W	5,500 K			PD3 CC-ST-1024 PSB POD *2	445 g
LFV3-G-30X60BL	Blue	24 V / 8.1 W	467 nm				
LFV3-G-35RD	Red	24 V / 8.4 W	630 nm				
LFV3-G-35SW	White	24 V / 8.3 W	5,500 K				
LFV3-G-35BL	Blue	24 V / 7.1 W	467 nm				
LFV3-G-50RD	Red	24 V / 17 W	630 nm				
LFV3-G-50SW	White	24 V / 17 W	5,500 K				
LFV3-G-50BL	Blue	24 V / 15 W	467 nm				
LFV3-G-50X100RD	Red	24 V / 34 W	630 nm				
LFV3-G-50X100SW	White	24 V / 34 W	5,500 K				
LFV3-G-50X100BL	Blue	24 V / 29 W	467 nm				

*2 For information on the combination of the LFV3-G and POD Series, please refer to the CCS website. <http://www.ccs-grp.com/lnk/qr/pod>

Protective plate (PR Series)

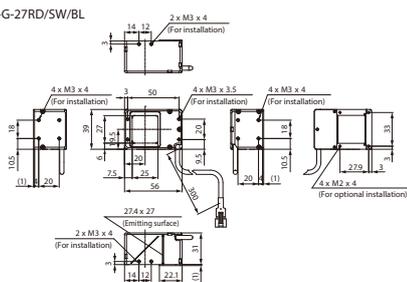


Model name	Compatible light
PR-LFV3-27	LFV3-G-27
PR-LFV3-30X60	LFV3-G-30X60
PR-LFV3-35	LFV3-G-35
PR-LFV3-50	LFV3-G-50
PR-LFV3-50X100	LFV3-G-50X100

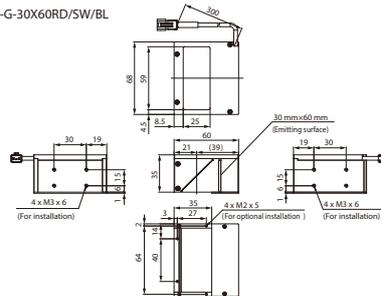
* Visit the CCS website for additional details such as external dimensions.

Product Drawings

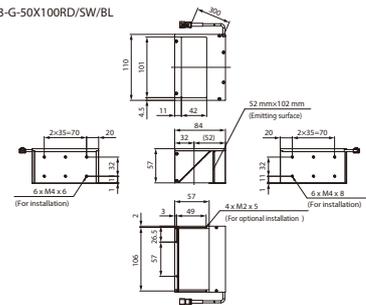
LFV3-G-27RD/SW/BL



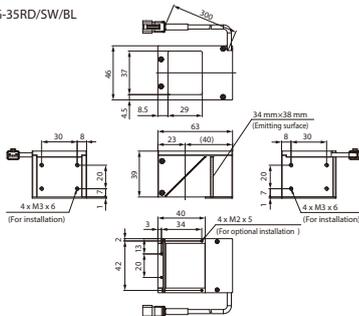
LFV3-G-30X60RD/SW/BL



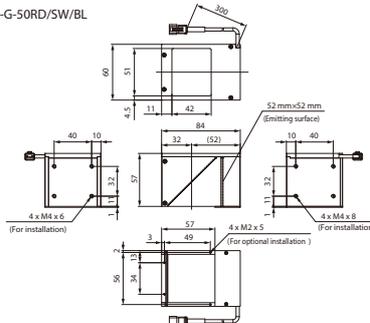
LFV3-G-50X100RD/SW/BL



LFV3-G-35RD/SW/BL



LFV3-G-50RD/SW/BL



For further information, please contact your local CCS representative

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