LDR2 LDR2-LA LDR-LA1 SQR SQR-TF Buith HTDR3

HPR2 Diffused Lighting FK FK

FPQ3 Lighting / ent Lighting / LDL2 Direct Li,
Anvergent
TDTB HLDL2

TH2 (5 types)

LEL

HPD2

LDM2 LAV PDM LFXV

LFX3 LFX3-PT LFV3

Collimated Lighting MEN CAW

Strobe ighting

HST-bCr

Small COB Lig UV3/VL3 UV2 UV2 LY Small COB Lights

LNSP-UV3-FN LNSP-UV-FN

IR2 (Under 1000-nm Type)

IR (Over 1000-nm Type)

CIR

HLV3

LV

LSP

LNSP2
Coaxial Coaxial Units

LNSP-FN

LN/LN-HK

LNSD

LND2

LT

LNV

LFXV (Rectar

LNIS2 LNIS

LNIS-FN

Telecentric Lens Macro Lens

TH2 (Rectangular Type)

HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFB3 LNLP

Sontrol

Diffused Lighting

Coaxial Lights

LFV3-G Series

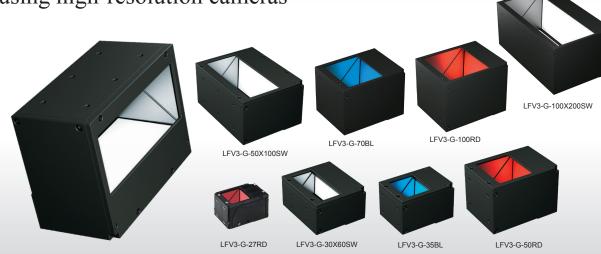
Refer to our website for product details.

CCS LFV3-G ▶ Search



or cell phone.

Equipped with a slim half mirror to support imaging using high-resolution cameras



Inspection for damage, scratches, or dents on glossy surfaces or mirrors; pattern inspection on printed circuit boards; dimension measuring of glass; inspection for damage and dents on resin molded products; etc.

Prevents ghost images and achieves higher resolution imaging than conventional products.

LFV3-G Series structure (example)

Uses optical glass The camera window and half mirror use optical glass.

Slim half mirror

Uses a slim half-mirror to achieve high-resolution imaging.

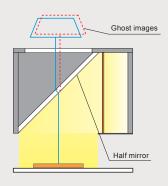
Flat light source with narrow directionality

A narrow beam angle controls the spread of light, resulting in highly directional illumination.

Protective plate (Optional)

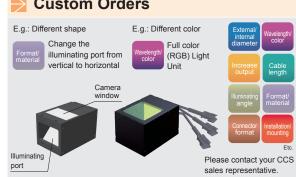
Uses 2 mm thick, transparent acrylic with an anti-reflective (AR) coating

Causes of ghost images (example)

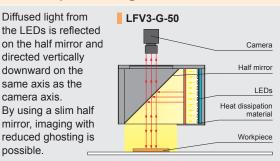


A thick half mirror causes deviations in the light path, generating ghost images. Using a thinner mirror reduces the deviation of the ghost images, enabling high-resolution imaging.

Custom Orders



Example Configuration



Various technical documents available.

Drawings

DXF

Product

Register to use them.

LDR2 LDR2-LA

SQR

SQR-TP

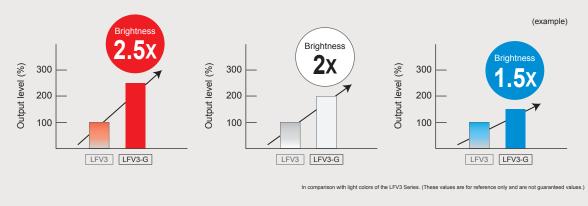
HLDR3

HPR2

LDR-LA1

Achieves up to 2.5 Times Higher Output Compared to LFV3

Can be combined with the strobe overdrive power supply POD Series to further increase the brightness several times more.



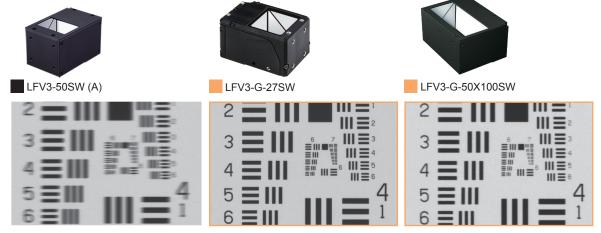
Strobe Overdrive Power Supply POD Series

▶ P.339



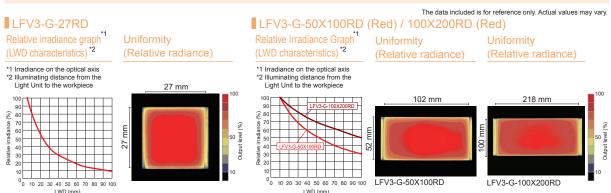


Imaging Example: Imaging Comparison of Resolution Evaluation Chart



[Imaging conditions] Camera: 2448x2048 3.45 µm 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 1.0 mm at the center), Resolution: 1.7 µm/pixel , WD: 110 mm, LWD: 25 mm. * The shutter speed and light intensity are adjusted for each image.

Data: Relative Irradiance Graph and Uniformity (Representative Example)



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LFR postplife
LKR 1910 postplife
FPR 3
LDL2 blujtifi paloga.
LDLB hllDL2 postplife
HLDL3 postplife
HLDL2 through postplife
HLDL2 through postplife
LFL thr

Ad Ad MSM Strobe Collimated Ighting Lighting

LFX3-PT LFV3

UV3/VL3 UV2 UV >N LNSP-UV3-FN

Under 1000-nm Type)
IR
Over 1000-nm Type)
CIR

HTA3

LSP Signal HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150

LNSP2 baxial Units LNSP-FN O

Coaxial Units

LNSP-FN

LN/LN-HK

LNSD

LND2
LT
LNV
LFXV
(Rectangular Type)

(Rectangular Type)

LNDG

LNIS2

Macro Lens

LNIS black Control LNIS-FN O

LDR2 LDR2-LA LDR-LA1 Direct L SQR SQR-TF Bulting HLDR3 HPR2 FPQ3

Direct Lighting / Convergent Lighting / HTDT3 HLDL2 TH2 (5 types) LEL HPD2

LDM2

LAV PDM LFXV

LFX3 LFX3-PT LFV3

Collimated Lighting MSM NAW

Strobe ighting

HLDK-II

Small COB Lights

LNSP-UV3-FN LNSP-UV-FN IR2 (Under 1000-nm Type)

IR (Over 1000-nm Type) CIR

Small COB Lig UV3/VL3 UV2

ntensity Control

Etc.

HLV3 LV LSP

HFS/HFR HLV3-22-4-NR

PFBR-600

PFBR-150

Coaxial Units

LNSP-FN LN/LN-HK

LNSD

LND2

LT

LNV

LFXV (Rectar ngular Type)

Indue Angled Printing Printing

LNIS-FN

Telecentric Lens

133

Macro Lens

TH2 (Rectangular Type)

PFB3

LNSP2
Coaxial
LNSP-F

HLV3-3M-RGB-4

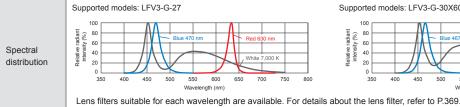
Lineup

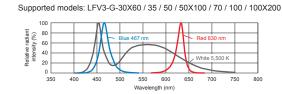
Model Name*1	Input Voltage	Power Consumption				Extension	Recommended	
		RD (Red)	SW (White)	BL (Blue)	Options*2	Cables	Control Units	Weight
LFV3-G-27□□	24 V	5.0 W	5.0 W	5.0 W	Protective Plate	FCB*5 Straight Cable FCB-W*6 2-Branch Cable FCB-F 4-Branch Cable	PD3 CC-ST-1024	110 g
							PSB POD*3	
LFV3-G-30X60□□	24 V	12 W	11 W	8.1 W			PD3 CC-ST-1024*4	165 g
							PSB POD*3	
							*4 Can only use blue.	
LFV3-G-35□□	24 V	8.4 W	8.3 W	7.1 W			PD3 CC-ST-1024	140 g
							PSB POD*3	
LFV3-G-50□□	24 V	17 W	17 W	15 W		FRCB Robot Cable	PD3	285 g
							PSB POD*3	
LFV3-G-50X100□□	24 V	34 W	34 W	29 W		"5 The cables with a model name that ends with "-ME7", "-EL2", "-PF", or "-PF-E19" are not included. "6 The cables with a model name that ends with "-EL2"	PD3	445 g
							PSB*7 POD*3	
							*7 Can only use blue.	
LFV3-G-70□□	24 V	28 W	25 W	22 W			PD3	570 g
							PSB POD*3	
LFV3-G-100□□	24 V	40 W	37 W	32 W		PD3 POD*3	990 g	
LFV3-G-100X200□□	24 V	59 W	59 W	59 W			L LOS LEODIO	1,730 g
Extension Cables ▶ P.381				Control Unit Selection Guide ▶ P.321 List of Control Unit Specifications ▶ P.323				

*1 $\square\square$ in the model name contains the LED color. (RD: Red, SW: White, BL: Blue)

*2 If you need to replace the diffusion plate or install a polarizing plate, we can do so as a custom-order.
*3 For information on the combination of the LFV3-G and POD Series, please refer to the CCS website. https://www.ccs-grp.com/lnk/qr/pod

LED Properties

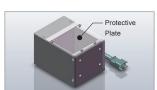




Be sure to read the "Instruction Guide" included with the product before use and follow the safety precautions upon use. The data included is for reference only. Actual values may vary.

For details on the effective field of view when using coaxial lights, see "Effective Field of View of Coaxial Lights" on P. 397.

Options



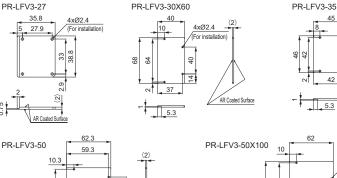
reductions in performance due to intrusion of foreign matter into the lights. Anti-reflective (AR coating) has been applied.

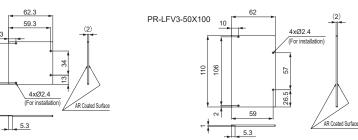
* Be aware that installing a protective plate may reduce image resolution.

Protective plates are available to prevent any



PR-LFV3-100X200 LFV3-G-100X200 * Protective plates for products other than the applicable light units listed above are available by custom order





Refer to our website for other external dimensions. https://www.ccs-grp.com/products/series/318

LFV3-G-100, LFV3-100(A

DXF Drawings Product Brochures

Instruction Guides

99

3D CAD

Data

PR-LFV3-100

4xØ2.4

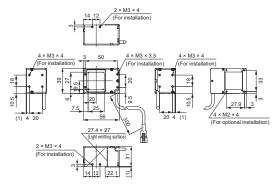
AR Coated Surface

42

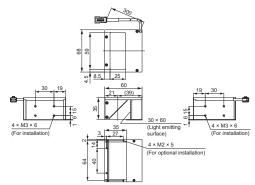
Dimensions (mm)



LFV3-G-35RD/SW/BL

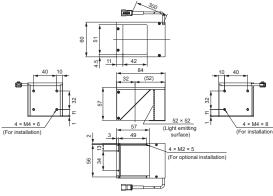


LFV3-G-30X60RD/SW/BL

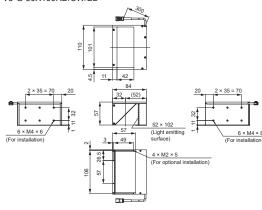


30 8 30 4 × 38 30 4 × M3 × 6 (For installation) 4 × M3 × 6 (For installation) 4 × M2 × 5

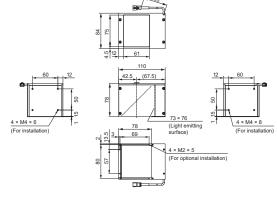
LFV3-G-50RD/SW/BL



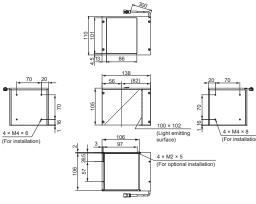
LFV3-G-50X100RD/SW/BL



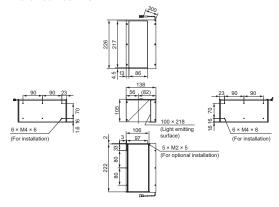
LFV3-G-70RD/SW/BL







LFV3-G-100X200RD/SW/BL



You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.19 for details.

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Inquire on our website here. https://www.ccs-grp.com/contact/ LDR2 LDR2-LA LDR2-LA LDR-LA1 SQR SQR-TP HLDR3 WOOD Peeruli Clean Peeruli

LDL2 / Building LDL3 / Buildin LDL3 / Building LDL3 / Building LDL3 / Building LDL3 / Building

TH2 (5 types)
LFL
HPD2
LDM2
LAV
PDM
LFXV
LFX3
LFX3-PT
LFV3
LFV3-G
MSU Paperulion

DR-IP Strope C Lighting

Under 1000-nm Type)
(Over 1000-nm Type)
CIR

HTA3

LV LSP 99 HFS/HFR 600 HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600 PFBR-150 PFBR-150

LNSP2
Coaxial Units
LNSP-FN
LN/LN-HK

LN/LN-HK

LNSD

LND2

LT

LNV

LFXV

tangular Type)

TH2

(Rectangular Type)

TH2
(Rectangular Type)

LNDG PB
LNIS2 V PB
LNIS2 PB
LNIS 2 PB
LNIS

LNIS-FN

Telecentric Lens Macro Lens