LDR-LA1 SQR SQR-TP HLDR3

nJJI HPR2 LFR LKR

FPR

FPQ3

LDLB

HLDL3 LB TH2 (5 types)

HPD2

LDM2 LAV PDM LFXV

LFX3 LFX3-P

LFV3-G

MSU

MFU

PF

Mater HSL-PCL

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

ensity ontrol

LV

LSP HFS/HFR

HLV3-22-4-NR HLV3-3M-RGB-4

PFBR-600SW2
PFBR-150
PFB3
LNLP
LNSP2
Coaxial Units

S LNSP-FN

LNSD

LN/LN-HK

L.
Described LTV
LTXV
(Rectangular Type)
TH2
*dangular Type

E LNIS2

and LNIS

LNIS-FN

Macro Lens

Small COB Lights

Direct Lighting

Ring Lights

LDR2 Series



CCS LDR2 ▶ Search



Provides direct light from an angled emitting part



Standard Ring Lights

boards, etc.

Uses a flexible circuit board to achieve the functions needed for a Ring Light. It can illuminate workpieces at an angle and can illuminate the whole workpiece. This alleviates the influence of slight position or inclination deviations in the workpiece and enables stable imaging.

Flexible circuit board

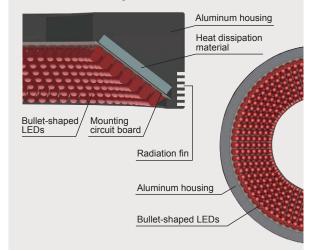
Applications



Succeeds in Greatly Reducing LED's Heat

Heat dissipation material is used between the board and the aluminum housing, absorbing heat produced by the LEDs. This succeeds in greatly reducing the creation of heat, which causes the LEDs to deteriorate.

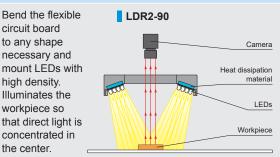
Cross-section image of the LDR2-120



Custom Order Example



Example Configuration



Various technical documents available.

PDF Drawings DXF Drawings Product Brochure Instructio Guides 3D CAD Data Sheets Imagi Exam Digita Catalo

Register to use them.

Imaging Example: Imaging Electrodes of Electronic Parts



Description	Visual inspection
Workpiece	Electronic parts
Conventional lighting	LED Bar Light
New lighting	LDR2-32RD2
Result	Improved uniformity





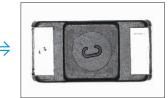
Electronic parts

LED Bar Light



It's difficult to make an image of the electrode part using a Bar Light.

LDR2-32RD2



A Ring Light can illuminate the electrode part evenly and make an

Imaging Example: Imaging Text on Intake Valves



Character recognition
Intake valves (automobile parts)
LED Ring Light
LDR2-50RD2
Emphasized characters

Workpiece image



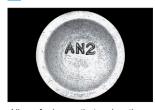
Intake valves

LED Ring Light



It's difficult to clearly recognize the text due to the inner indentation.

LDR2-50RD2



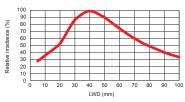
Allows for image that makes the character edges stand out.

Data: Relative Irradiance Graph and Uniformity (Representative Example)

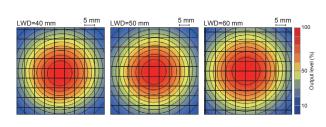
The data included is for reference only. Actual values may vary.

LDR2-50RD2 Relative irradiance graph 1 (LWD characteristics) 2

*1 Irradiance on the optical axis
*2 Illuminating distance from the light unit to the workpiece



Uniformity (Relative irradiance)



You can inquire using our website.

Light Unit Selection

Free Product Trial

Product Details

Inquire on our website here Discontinued Products https://www.ccs-grp.com/contact/

SQF SQR-TP HPR2 LFR E LKR FPR LDL2 LDLB HLDL3 LB TH2 (5 types) HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT MSU MFU Small COB Lights Nr3 / Jolet LNSP-UV3-FN CIR IU LV LSP HFS/HFR HLV3-22-4-NR HLV3-3M-RGB-4 PFBR-600SW2 PFBR-150 PFB3 LNLP LNSP2 Coaxial Units LNSP-FN LN/LN-HK LNSD LND2 LNDG

LNIS-FN Telecentric Lens Macro Lens

LDR-LA1

SQR-TF HLDR3

SQR

HPR2 t LFR

LKR

FPR FPQ3

LDLB HLDL3 LB TH2 (5 types) HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-P1 LFV3 LFV3-G MSU MFU PF

Mater HSL-PCL Small COB Lights

> UV LNSP-UV3-FN IR2 (Under 1000-nm Type) IR (Over 1000-nm Type) CIR

ensity ontrol

LV LSP HFS/HFR

HLV3-22-4-NR

HLV3-3M-RGB-4

PFBR-600SW2

PFBR-150

PFB3 LNLP LNSP2 Coaxial Units

5 LNSP-FN

LNSD LND2 LT LNV

LN/LN-HK

LFXV (Rectangular Type)

TH2 (Rectangular Type) LNDG E LNIS2 Line ilque Ar O LNIS-FN Telecentric Lens Macro Lens

Introduction to Half Ring Lights (Custom Order Example)

LDR2-HF Series

It has a space-saving design that can be installed and used in a limited space

- The contrast can be increased by illuminating only the required parts
- · Can be installed in a device with limited space and illuminates the area to be observed in pinpoint
- · Can be customized according to the application such as emission color and size



LDR2-50SW2-HF

Custom order products The warranty period of the custom order product is different from that of the CCS standard products. Contact our local sales office for details.

Lineup

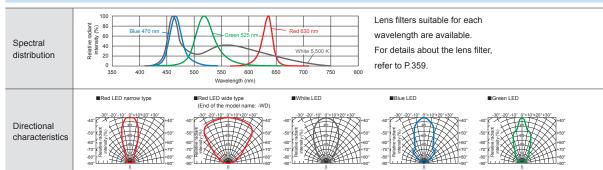
End of the model name: -WD: Wide type

	,	Input	Power Consumption			Extension	Recommended			
Classification	Model Name *1	Voltage	RD (Red)	SW (White)	BL (Blue)	GR (Green)	Options	Cables	Control Units	Weight
	LDR2-32 □□ 2	24 V	1.6 W	1.9 W	1.9 W	1.9 W	Diffusion Plate Polarizing Plate Adapter Lens attachment ring	FCB*4 Straight Cable FCB-W*5 2-Branch Cable	PD4 PD3 CC-ST-1024 POD*2	30 g
	LDR2-42 □□ 2	24 V	2.1 W	2.7 W	2.7 W	2.7 W	Diffusion Plate Polarizing Plate Adapter			50 g
	LDR2-50 □□ 2	24 V	3.1 W	3.8 W	3.8 W	3.8 W	Diffusion Plate Polarizing Plate			50 g
Standard products	LDR2-50RD2-WD	24 V	3.1 W	-	_	_	Adapter Lens attachment ring			
	LDR2-70 □□ 2	24 V	6.1 W	7.6 W	7.6 W	7.6 W		FCB-F 4-Branch Cable FRCB Robot Cable *4 The cables with a model name that ends with "-ME7", "-EL2", "-PFF-L9" are not included. *5 The cables with a model name that ends with a model name that ends with "-EL2" are not included.		120 g *RD is 110 g
	LDR2-70RD2-WD	24 V	6.1 W	-	_	-	Diffusion Plate Polarizing Plate			110 g
	LDR2-90 □□ 2	24 V	11 W	14 W	14 W	14 W			PD4 PD3 POD*2	170 =
	LDR2-90RD2-WD	24 V	11 W	_	_	-	Diffusion Plate Polarizing Plate Adapter			170 g
	LDR2-90-30 □□ 2	24 V	14 W	18 W	17 W	17 W				220 g
	LDR2-120 □□ 2	24 V	_	28 W	26 W	26 W				500 g
	LDR2-120RD2-WD	24 V	24 W	-	-	-				510 g
Custom order products	LDR2-32 □□ 2-HF	24 V	*3	1.2 W	*3	*3			PD4	
	LDR2-50 □□ 2-HF	24 V	*3	1.9 W	1.9 W	*3	*3		PD3 CC-ST-1024	*3
	LDR2-70 □□ 2-HF	24 V	*3	3.5 W	3.5 W	*3			POD	
Extension Cables ▶ P.371 Control Unit Selection Guide ▶ P.305 List of Control Unit Specifications ▶ P.307										

*11 🗆 in the model name contains the LED color, (RD: Red, SW: White, BL: Blue, GR: Green)
*2 For information on the combination of light units and POD Series control unit, please refer to our website. https://www.ccs-grp.com/lnk/qr/pod

*3 This product is custom-made. Contact our local sales office for details.

LED Properties



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

LDR-LA

SQF

SQR-TP

HLDR3

HPR2

LFR E

LKR

FPR

LDLB HLDL3

LB TH2 (5 types)

LEL HPD2 LDM2 LAV

PDM LFXV LFX3 LFX3-PT

MSU

MFU

HLDR-IP HSL-PCL Small COB Lights

Nr3 / Jolet LNSP-UV3-FN (Under 1000-nm Type)
IR
(Over 1000-nm Type)

CIR IU

HLV3

LV

LSP HFS/HFR HLV3-22-4-NR

PFB3

LNLP

LNSP2 Coaxial Units LNSP-FN LN/LN-HK LNSD

LND2

LNDG

LNIS-FN

Telecentric Lens Macro Lens

LNIS2 e

TH2 (Rectangular Type)

HLV3-3M-RGB-4 PFBR-600SW2 PFBR-150

Options



Diffusion plate

Model name

DF-LDR-32

DF-LDR-42

DF-LDR-50

DF-LDR-70*1

DF-LDR-90

DF-LDR-120-45

Can prevent glare, which is a problem when making images of glossy workpieces.



Use with a polarizing filter to remove the light's surface



Model name

AD-LDR-32

AD-LDR-42

AD-LDR-50

AD-LDR-90

P.368

AD-LDR-120 LDR2-120

Use when installing a diffusion plate or polarizing plate to the light unit

LDR2-32

LDR2-42

LDR2-50

LDR2-90

LDR2-90-30



Light can be directly mounted to the filter thread of the lens. Suitable for environments with limited installation space.

Polarizing plate

eter is required when installing a polarizing plate

Model name	Applicable Light Unit (Common for all colors)
PL-LDR-32	LDR2-32
PL-LDR-42	LDR2-42
PL-LDR-50	LDR2-50
PL-LDR2-70*1	LDR2-70
PL-LDR-90	LDR2-90
PL-LDR-90-H28*2	LDR2-90-30
PL-LDR-120-40	LDR2-12

^{*1} PL-LDR2-70 comes with a mounting adapter.
*2 This is a custom order product. Contact our local sales office for details.

Lens attachment ring

Model name	Note	Applicable Light Unit (Common for all colors)
MR-LDR-32-M25	M25.5 P0.5	
MR-LDR-32-M27	M27.0 P0.5	LDR2-32
MR-LDR-32-M30	M30.5 P0.5	
MR-LDR-50-M25	M25.5 P0.5	
MR-LDR-50-M27	M27.0 P0.5	LDR2-50
MR-LDR-50-M30	M30.5 P0.5	
	MR-LDR-32-M25 MR-LDR-32-M27 MR-LDR-32-M30 MR-LDR-50-M25 MR-LDR-50-M27	MR-LDR-32-M25 M25.5 P0.5 MR-LDR-32-M27 M27.0 P0.5 MR-LDR-32-M30 M30.5 P0.5 MR-LDR-50-M25 M25.5 P0.5 MR-LDR-50-M27 M27.0 P0.5

▶ P.368

DF-LDR-90-H28*2 LDR2-90-30

An adapter is required when installing a diffusion plate

LDR2-32

LDR2-42

LDR2-50

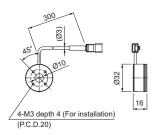
LDR2-70

LDR2-90

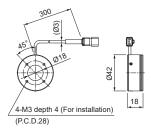
LDR2-120

Dimensions (mm)

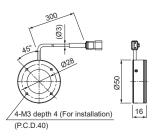
LDR2-32RD2/SW2/BL2/GR2



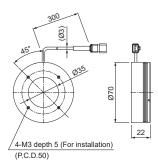
LDR2-42RD2/SW2/BL2/GR2



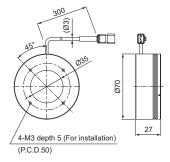
LDR2-50RD2/RD2-WD/SW2/BL2/GR2



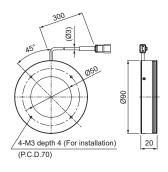
LDR2-70RD2/RD2-WD



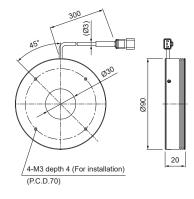
LDR2-70SW2/BL2/GR2



LDR2-90RD2/RD2-WD/SW2/BL2/GR2

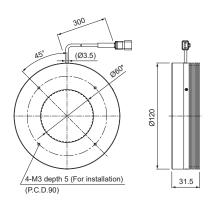


LDR2-90-30RD2/SW2/BL2/GR2



The cable diameter of LDR2-90-30SW2/BL2/GR2 is Ø3.5.

LDR2-120RD2-WD/SW2/BL2/GR2



* The inside diameter will be around Ø56 mm due to the protruding LED.

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

You can inquire using our website.

Light Unit Selection

Free Product Trial

Custom Orders

Product Details

Discontinued Products

Inquire on our website here https://www.ccs-grp.com/contact/

P.365

DF-LDR-70 does not require an adapter.
It is fixed to direct lighting.
 This is a custom order product. Contact our local sales office for details.