LDR-LA1

SQR-TF HLDR3 HPR2

LFR LKR FPR FPQ3

HLDL3 LB TH2 (5 types)

HPD2

LDM2 LAV PDM LFXV

LFX3-P LFV3

LFV3-0

MSU

MFU

PF

HLDR-IP HSL-PCL

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

CIR CIR

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

LT

LNV

LNDG

E LNIS2

B LNIS

LNIS-FN
Telecentric L
Macro Len

LFXV (Rectangular Type)

Small COB Lights Low-Angle Ring Lights

LDR2-LA Series

Refer to our website for product details.

CCS LDR2-LA ▶

Search



Provides direct light at a low angle from an angled emitting part



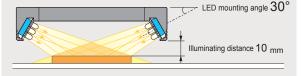
Applications

Inspection for engraving, damage, or stains on metal surfaces; edge extraction; foreign material inspection of medicine; inspection for damage to glass edges; visual inspection for O-rings; etc.

Extraction of Uneven Damage or Engravings

Providing direct light from a low angle to the center section allows for an image that emphasizes the workpiece's characteristic features.

Imaging example for the LDR2-100RD2-LA: Imaging the appearance of coins





Edge extraction is difficult with illumination from a high angle.

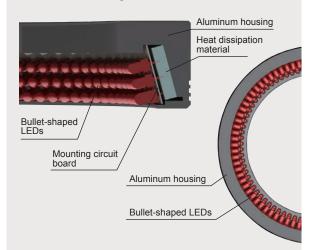


Illuminating from a low angle allows for imaging that emphasizes the edges.

Illuminating from a Low-Angle at a Steep Slope

By mounting LEDs on a flexible circuit board in a steep angle, it becomes possible to converge light in the center section from a low position.

Cross-section image of the LDR2-132-LA

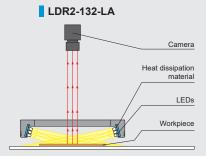


Custom Order Example

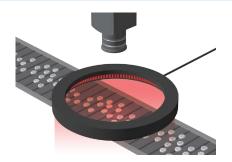


Example Configuration

Using a flexible circuit board to create any angle needed. Emits direct light to the center of the workpiece from a low angle.



Imaging Example: Imaging Text on Tablets and Their Appearance



Description	Text, visual inspection
Workpiece	Tablets
Conventional lighting	Interior lamp
New lighting	LDR2-170RD2-LA
Result	Emphasizes text and edge of the exterior

Workpiece image



Tablets

Interior lamp



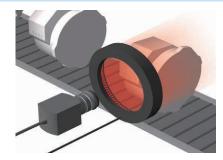
It is difficult to take an image that emphasizes the text or exterior.

LDR2-170RD2-LA



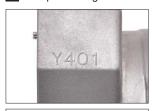
Possible to take an image that emphasizes the text or exterior.

Imaging Example : Imaging Engraved Text on Metal Blocks (Stain Finishing)



Description	Character recognition
Workpiece	Metal blocks
Conventional lighting	LED Dome Light
New lighting	LDR2-132RD2-LA
Result	Extracts only the engraved text
	<u> </u>

Workpiece image



Metal blocks (stain finishing)

LED Dome Light



The whole thing is illuminated, making it difficult to emphasize only the characters.

LDR2-132RD2-LA



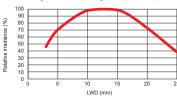
Reduces effects from the stain finishing, making it possible to emphasize the characters.

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

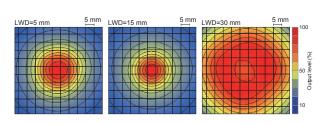
Data: Relative Irradiance Graph and Uniformity (Representative Example)

LDR2-74RD2-LA Relative irradiance graph¹ (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

Discontinued Products

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

SQF SQR-TF HLDR3 HPR2 LFR È LKR FPR LDL2 LDLB HLDL3 LB TH2 (5 types) HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT MSU MFU HSL-PCL Small COB Lights Nr3 / Solet 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

TH2 (Rectangular Type) LNDG

LNSD LND2

LNIS Z LNIS-FN Telecentric Lens Macro Lens

LDR2

LDR-LA1

SQR-TF HLDR3

SQR

HPR2 t LFR

LKR FPR FPQ3

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

PF

UV

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

LNV LFXV (Rectangular Type)

TH2 (Rectangular Type) LNDG E LNIS2 SIN1 LNIS-FN

> Telecentric Lens Macro Lens

LT

LNSP-UV3-FN

IR2 (Under 1000-nm Type) IR (Over 1000-nm Type)

HLDR-IP

HSL-PCL Small COB Lights

LDR2-LA Series







Introduction to Half Ring Lights (Custom Order Example)

LDR2-LA-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



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

	*1	Input	F	Power Co	nsumptio	n		Extension	Recommended	Weight
Classification	Model Name *1	Voltage	RD (Red)	SW (White)	BL (Blue)	GR (Green)	Options	Cables	Control Units	
	LDR2-48□□2-LA	24 V	2.1 W	3.1 W	3.1 W	3.1 W	FCB*4 Straight Cable PD4	Straight Cable PD4 PD0 FCB-W*5 CC-ST-1024 POD	PD4 PD3	50 g
	LDR2-74□□2-LA	24 V	4.6 W	5.7 W	5.7 W	5.7 W			CC-ST-1024 POD*2	90 g
Standard	LDR2-100□□2-LA	24 V	9.1 W	12 W	12 W	12 W			170 g	
products	LDR2-132□□2-LA	24 V	13 W	16 W	16 W	16 W		PD4 PD3	270 g	
	LDR2-170□□2-LA	24 V	18 W	22 W	22 W	22 W		Robot Cable POD*2 *4 The cables with a model name that ends with "-ME7", "-FL2", "-PF", or		350 g
	LDR2-208□□2-LA	24 V	22 W	28 W	28 W	28 W			380 g	
Custom order	LDR2-74□□2-LAHF	24 V	*3	2.7 W	*3	*3] *3	
products	LDR2-100□□2-LAHF	24 V	4.6 W	5.7 W	5.7 W	*3		ends with "-EL2" CC-ST-1024 P	CC-ST-1024 POD] 3
		Ex	tension C	ables F	2.371	Control	Unit Selection Guide	P.305	ist of Control Unit Specifications	▶ P.307

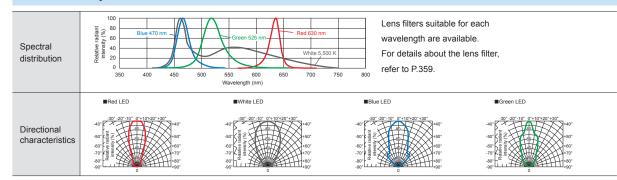
*1 $\square\square$ in the model name contains the LED color.

(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.

Options



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

Diffusion plate

•	
Model name	Applicable Light Unit (Common for all colors)
DF-LDR-48LA	LDR2-48-LA
DF-LDR-74LA	LDR2-74-LA
DF-LDR-100LA	LDR2-100-LA
DF-LDR-132LA	LDR2-132-LA
DF-LDR-170LA	LDR2-170-LA
DE LDD 209LA	LDP2-208-LΔ



Combine with the Dome Light HPD2 Series to achieve imaging by light switching and simultaneous lighting.

Light joint bracket

Model name	Applicable Light Unit 1 (Common for all colors)	Applicable Light Unit 2 (Common for all colors)
BK-75-JO	LDR2-100-LA	HPD2-75
BK-100-JO	LDR2-132-LA	HPD2-100
BK-150-JO	LDR2-170-LA	HPD2-150
BK-200-JO	LDR2-208-LA	HPD2-200
P.370		

Various technical documents available.

Drawings

DXF

Product

Instruction Guides

Register to use them.

LDR-LA SQR SQR-TP HLDR3

HPR2

LFR E

LKR

FPR

LDL2

LDLB

HLDL3 LB TH2 (5 types)

LFL HPD2 LDM2 LAV PDM

LFXV

LFX3 LFX3-PT LFV3-G MSU

MFU

Small COB Lights

Nr3 / Jolet LNSP-UV3-FN

> CIR IU

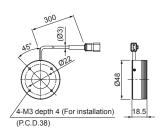
LV LSP

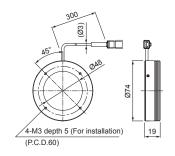
Dimensions (mm)

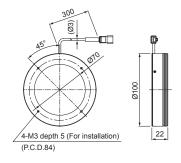
LDR2-48RD2-LA / SW2-LA / BL2-LA / GR2-LA

LDR2-74RD2-LA / SW2-LA / BL2-LA / GR2-LA

LDR2-100RD2-LA / SW2-LA / BL2-LA / GR2-LA

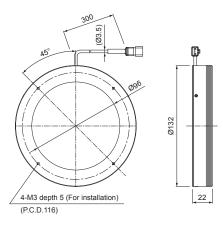


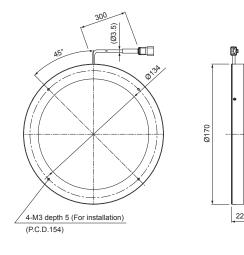




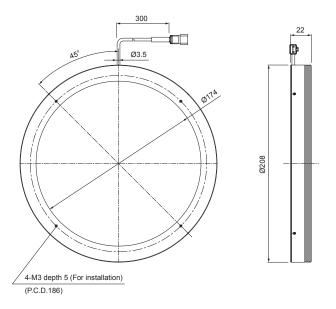
LDR2-132RD2-LA / SW2-LA / BL2-LA / GR2-LA

LDR2-170RD2-LA / SW2-LA / BL2-LA / GR2-LA





LDR2-208RD2-LA / SW2-LA / BL2-LA / GR2-LA



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