LDR2 CDirect LDK-P SOS LDR-LA1 SQR-TF

> HPR2 LFR LKR FPR FPQ3

LDL2

LDLB HLDL3 LB

HPD2 LDM2

LAV PDM

LFXV

LFV3 LFV3-G MSU MFU PF HLDR-IF

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

LNSP-FN LN/LN-HK LNSD

E LNIS2 Line ique A O LNIS-FN

Macro Lens

TH2 (5 types)

Convergent Lighting

Ring Lights **HLDR3** Series Refer to our website for product details.

CCS HLDR3 ▶ Search



Convergent lighting suitable for long-distance illumination





Wide Type



Medium Type

HLDR3-SW (White)







Wide Type

Medium Type



HLDR3-IR (Infrared)

Applications

Light source for robot picking; Part sorting, inspection for model mixing; Exterior inspection of various parts; etc.

Narrow Type

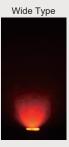
Three Types of Light Directivity

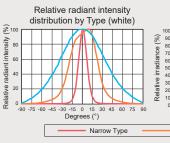
The data included is for reference only. Actual values may vary.

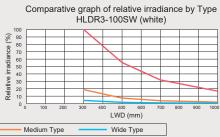
We have a lineup of Narrow Type that emits condensed illumination, Wide Type that diffuses illumination over a wide range, and Medium Type that has intermediate light distribution characteristics.











Imaging Comparison (External observation of textured metal part)

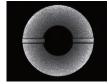
Workpiece image



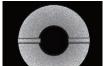
Textured metal part

LWD 75 mm

Narrow Type HLDR3-100SW-DF-N



Shutter Speed: 800 µs



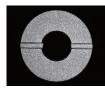
Medium Type

HLDR3-100SW-DF-M

Shutter Speed: 650 µs More widely illuminated than the narrow Type, but not sufficiently uniform.



Shutter Speed: 2200 µs Uniformly illuminated in the entire FOV.



Shutter Speed: 280 µs Uniformly illuminated in the entire FOV.



Shutter Speed: 800 µs Insufficient quantity of light.



Wide Type HLDR3-100SW-DF-W

Shutter Speed: 280 µs Insufficient quantity of light



Shutter Speed: 800 µs Insufficient quantity of light

I WD 150 mm

LWD 750 mm



Shutter Speed: 180 µs

More widely illuminated

Uniformly illuminated in the

Various technical

DXF

Product

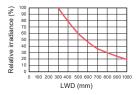
Register to use them.

Data: Relative Irradiance Graph and Uniformity (Representative Example)

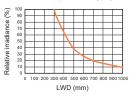
Relative irradiance graph (LWD characteristics)

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

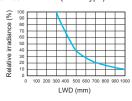
HLDR3-100SW-DF-N (Narrow Type)



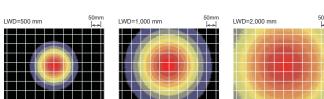
HLDR3-100SW-DF-M (Medium Type)

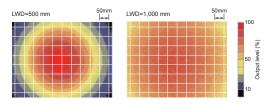


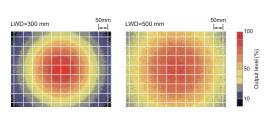
HLDR3-100SW-DF-W (Wide Type)



The data included is for reference only. Actual values may vary. Uniformity (Relative irradiance)







Lineup Model Name Endings: Narrow Type, -M: Medium Type, -W: Wide Type

Model Name ^{*1}	Input Voltage	Power Consumption					Extension	Recommended	
		RD (Red) (SW (White)		IR (Infrared)	Options	Cables	Control Units	Weight
HLDR3-100□□-DF-N		15 W				_	FCB ⁻¹² Straight Cable FCB-W ⁻³ 2-Branch Cable FCB-F 4-Branch Cable	PD4 PD3	340 g
HLDR3-100□□-DF-M	24 V								340 g
HLDR3-100□□-DF-W							FRCB Robot Cable		310 g
Note: Please inquire if you would like to use in combination with a strobe control unit (overdrive Type) Extension Cables ▶ P.371 Control Unit Selection Guide ▶ P.305 List of Control Unit Specifications ▶ P.305									ns ▶ P.307

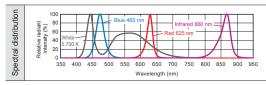
with a strobe control unit (overdrive Type) *1 \square in the model name contains the LED color

(RD: Red, SW: White, BL: Blue, IR: Infrared)

2 Cables with a model name that ends with "-MEZ", "-EL2", "-PF", or "-PF-EL9" are not included.

3 Cables with a model name that ends with "-EL2" are not included.

LED Properties



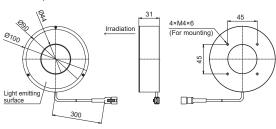
Lens filters suitable for each wavelength are available. For details about the lens filter, refer to P.359.

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.

Dimensions (mm)

HLDR3-100 DF-N / -M / -W (common dimensions)

(□□=RD, SW, BL, IR)



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Light Unit

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Product Details

Discontinued Products

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

LDR2 LDR-LA1 SQR SQR-TP HPR2 LFR LKR FPR LDLB HLDL3 LB TH2 (5 types) HPD2 LDM2 LAV PDM LFXV LFX3 LFX3-PT LEV3-G MSU MFU Small COB Lights Nr3 / Folk LNSP-UV3-FN IR2 (Under 1000-nm Type) IR 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

TH2 (Rectangular Type) LNDG LNIS2

LNIS-FN

Telecentric Lens Macro Lens