Diffused Lighting Ring Lights

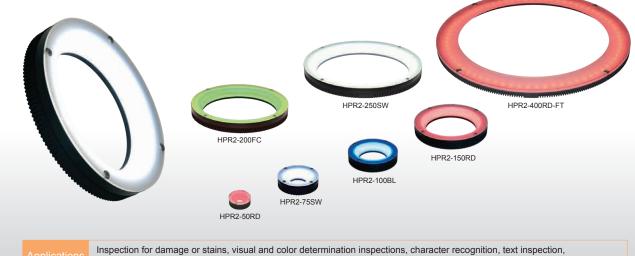
HPR2 Series

Refer to our website for product details.

Search



Achieves a uniform region with a high degree of freedom by using a unique illuminating mechanism



Supports from Low Angles to High Angles

high angle uniform illumination, characteristic extraction at low angle, etc.

Provides diffused light from the LEDs without waste using a unique illuminating mechanism. Even if the distance from the workpiece to the light unit is changed, there is little variation in the uniform region and it can therefore be used for a wide variety of uses.



Custom Order Example

Please contact your CCS sales representative. E.g.: Different shape Customizable items

PDF

Drawings



DXF

Drawings

Product

Brochures

Instruction

Guides

3D CAD

Data

Shee

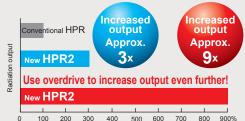
Imaging Example

Provides Diffused Light at High Output

It achieves uniform illumination of diffused light at high output using surface-mounted LEDs and a specially processed diffusion plate.

Achieved higher output than the conventional product

Output comparison with the conventional product



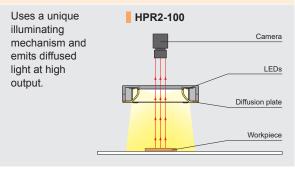
. This is a comparison between the HPR-100 and HPR2-100 light units, using red and white colors

It can be combined with a strobe control unit for even brighter emission than continuous emission.
 *Cannot use a full color (RGB) type.
 The data included is for reference only. Actual values may vary.

Added two sizes and a full color (RGB) type

We added the HPR2-75 and HPR2-200 models. Also, we added a full color (RGB) type to the lineup as variation for wavelengths, increasing the applications of our products.

Example Configuration



Register to use them.

Digital Catalogs

Various technical

documents available.

Telecentric Lens Macro Len

LDR2

SQR

FPR FPQ3

LDLB

HLDL3 LB TH2 (5 types)

HPD2

LDM2 LAV PDM LFXV

LFX3 LFX3-PT LFV3 Bar

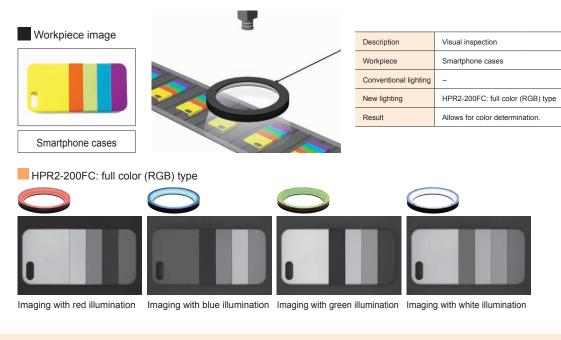
IFI E

LDR2-LA

SQR-TP HLDR3 HPR2 LFR LKR

Imaging Example: Imaging Text on Electronic Parts Description Printing inspection Workpiece Electronics parts in embossed tapes Conventional lighting LED Ring Light New lighting HPR2-75RD Result Improved uniformity Workpiece image LED Ring Light HPR2-75RD 12000 917 KSS 9L1 91 Stable inspection is difficult due to Surface reflection is reduced and Electronics parts in embossed tapes surface reflection. an image of the text can be made.

Imaging Example: Imaging the Appearance of Multi-Colored Workpieces



Data: Relative Irradiance Graph and Uniformity (Representative Example)

The data included is for reference only. Actual values may vary HPR2-75SW Relative irradiance graph^{*1} (LWD characteristics)^{*2} Uniformity (Relative irradiance) *1 Irradiance on the optical axis *2 Illuminating distance from the light unit to the workpiece 10 mm 10 mm 10 mm LWD=100 mm LWD=150 mm LWD=20 mm 90 80 70 60 50 40 30 20 10 irradiance (%) (%) Relative 11 Output 20 30 40 50 70 100 150 200 250 LWD (mm) You can inquire Inquire on our website here Sample Testing Light Unit Selection Free Product Trial Custom Orders Product Details Pricing/ Quotation Discontinued Products https://www.ccs-grp.com/contact/ using our website.

MSU MFU PF HLDR-IP HSL-PCL Small COB Lights COB LNSP-UV3-FN Under 1000-nm Type Over 1000-nm Ti CIR IU HLV3 LV LSP HFS/HFR Etc. 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 LNIS2 LNIS LNIS Obli LNIS-FN Telecentric Lens Macro Lens 48





CCS HPR2

Refer to our website for product details.

Search



Introduction to Half Ring Lights (Custom Order Example)

HPR2-HFCT 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



HPR2-100SW-HFCT

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

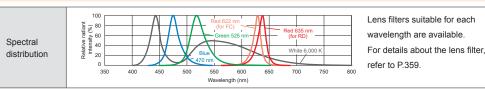
		Input	Power Consumption					Extension	Recommended		
Classification	Model Name ^{*1}	Voltage	RD (Red)	SW (White)	BL (Blue)	FC*4 (Red Green/Blue)	Options	Cables	Control Units *4		Weight
	HPR2-50□□	24 V	7.6 W	9.1 W	9.1 W	3.8 W*4	FCB*5 CC-ST-1024 Bracket FCB-W*6 2-Branch Cable PD4 FCB-RCB-R POD*2	PD3	46 g		
								Straight Cable	CC-ST-1024	POD*2	
	HPR2-75□□	24 V	17 W	16 W	16 W	6.0 W*4					160 g
Standard	HPR2-100□□	24 V	17 W	23 W	23 W	11 W*4					170 g
products	HPR2-150□□	24 V	27 W	27 W	27 W	15 W*4		4-Branch Cable FRCB Robot Cable		PD3	250 g
	HPR2-200□□	24 V	34 W	41 W	41 W	19 W*4					380 g
	HPR2-250□□	24 V	45 W	46 W	46 W	24 W*4					510 g
	HPR2-400□□-FT	24 V	45 W	46 W	46 W	30 W*4	-	*5 The cables with a model name that ends with			1,050 g
	HPR2-50□□-HFCT	24 V	*3	4.6 W	*3	*3	*3 *3 ********************************	PD4	PD3		
Custom order	HPR2-75□□-HFCT	24 V	*3	7.6 W	*3	*3		*6 The cables with a model name that ends with "-EL2" are not	CC-ST-1024	POD	*3
products	HPR2-100□□-HFCT	24 V	*3	12 W	*3	*3			PD4	PD3	
	HPR2-150 -HFCT	24 V	*3	14 W	*3	*3			POD		
					Extension	Cables 🕨	P.371 Control Unit Sele	ction Guide P .30	5 List of Contro	I Unit Specification	ns ▶ P.307

*1
in the model name contains the LED color. (RD: Red, SW: White, BL: Blue, FC: Red/Green/Blue)

*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.
*4 For the full color (RGB) type control unit, use the PD3 3-channel specification. Cannot be used with the strobe control unit (overdrive mode).

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



Light joint bracket

Model name

BK-75-JO

BK-100-JO

BK-150-JO

BK-200-JO

BK-250-JO

P.370

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

Applicable Light Unit 1 (Common for all colors)

HPR2-75 Series

HPR2-100 Series

HPR2-150 Series

HPR2-200 Series HPD2-200 Series

HPR2-250 Series HPD2-250 Series



Achieves installation using installation holes with a larger gap than the light unit body installation holes or installation on a vertical surface.

Imaging Examples

Digital Catalogs

Expansion mounting bracket

Model name	Applicable Light Unit (Common for all colors)			
BK-50-CI	HPR2-50 Series			
BK-75-CI	HPR2-75 Series			
BK-100-CI	HPR2-100 Series			
BK-150-CI	HPR2-150 Series			
BK-200-CI	HPR2-200 Series			
BK-250-CI	HPR2-250 Series			

3D CAD

Data

Example of the expansion mounting bracket in use



Ring Light: Image of usage with the HPR2-200RD



TH2 (Rectangular Type)

LT. LNV LFXV (Rectangular Type)

LNDG

ENIS2

LNIS-FN

Telecentric Lens

Macro Lens

Line A signature

enses

Applicable Light Unit 2 (Common for all colors)

HPD2-75 Series

HPD2-100 Series

HPD2-150 Series

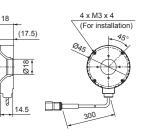
Register to use them.

Dimensions (mm)

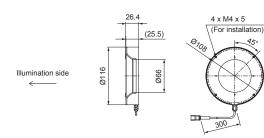
Ø50

HPR2-50RD/SW/BL/FC

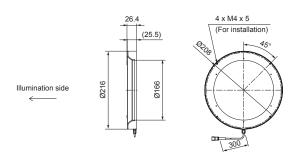
Illumination side



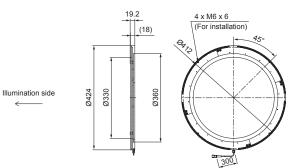
HPR2-100RD/SW/BL/FC



HPR2-200RD/SW/BL/FC

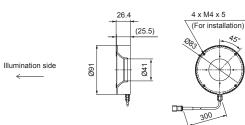


HPR2-400RD-FT / SW-FT / BL-FT / FC-FT



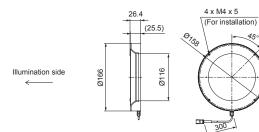
The HPR2-400-FT has a flat diffusion plate.

HPR2-75RD/SW/BL/FC

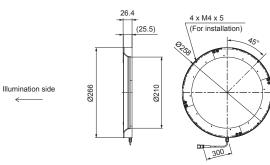


45

HPR2-150RD/SW/BL/FC



HPR2-250RD/SW/BL/FC



The HPR2-250 model has a curved diffusion plate. Be aware this differs from the conventional product.



The full color type (HPR2-DDFC, HPR2-400FC-FT) has three connectors. Use a 3-channel control unit if controlling intensity separately for each color.

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

Product Details

Custom Orders

You can inquire

using our website.

Sample Testing

Light Unit Selection Free Product Trial Pricing/ Quotation Discontinued Products Inquire on our website here https://www.ccs-grp.com/contact/

LDR2 LDR2-LA LDR2-LA SQR SQR-TP HLDR3 LFR LKR FPR FPQ3 LDLB Bar HLDL3 LB TH2 (5 types) Flat LEL HPD2 LDM2 LAV Dome PDM LFXV LFX3 LFX3-PT LFV3 LFV3-G MSU MFU PF HLDR-IP Vater-HSL-PCL Small COB Lights COB LNSP-UV3-FN IR2 (Under 1000-nm Type) IR (Over 1000-nm Type) Infrared CIR ontro IU HLV3 LV LSP HFS/HFR HLV3-22-4-NR Spot. HLV3-3M-RGB-4 PFBR-600SW2 PFBR-150 PFB3 LNLP LNSP2 Coaxial Units verc LNSP-FN LN/LN-HK LND2 LINC LINC LFXV (Rectangular Type) TH2 (Rectangular Type) LNDG LNIS2 au (Oblique / LNIS-FN Telecentric Lens enses Macro Lens 50