LDR2

SQR

SQR-TP

HLDR-IP

HPR2

LFR

LKR FPR FPQ2

LDL2

TH LFL

HLDL2

HPD2 HPD

LDM2 LAV

PDM

LFX2 LFV3 LFV2/LFV

> MSU MFU

UV2

UV

LV LSP

HFS/HFR HLV2-NR

PFB2

PFBR

LNSP

CU-LNSP

LNSP-FN

LN/LN-HK LND2

Telecentric Lens

HLND LT LNV

HLV2-3M- RGB-3W

LNSP-UV-FN

LDR2-LA LDR-LA1

Dome Lights HPD2 series

Use a search engine

▶ Search



Provides diffused light evenly through the dome-shaped reflective panel



Visual/text/color determination inspections on glossy surfaces, curved surfaces, or uneven surfaces, inspection for engraving/damage/ stains on stain finishing, visual inspection for metal with hairline finishing, and inspection for parts on circuit boards, etc.

Supports applications for a wide variety of industries

It is bright and even if the distance from the workpiece to the Light Unit is changed, there is little change in the uniform region. Therefore, it can be used in a wide range of industries.



HPD2-100SW (White)

Food industry (Chocolate)



HPD2-250SW (White)



HPD2-150SW (White)

Packaging industry (Top of a drink container)



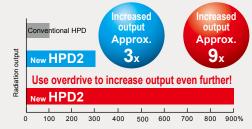
HPD2-150SW (White)

Illuminates diffused light at high output

Light from the surface-mounted LEDs is diffused inside the dome-shaped reflective panel. The diffused light from the wide uniform region is illuminated evenly.

Achieved higher output than the conventional product

■ Output comparison with the conventional product



- * This is a comparison between the HPD-100 and HPD2-100, using red and white colors.
 * It can be combined with a Strobe Control Unit for even brighter emission than continuous
 * The data included is for reference only and does not guarantee the quality of this product.

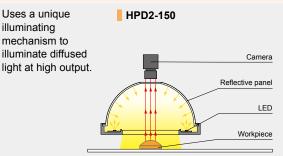
Added two sizes and an infrared and full color (RGB) type

We added the HPD2-75 and HPD2-200 models. Also, we added infrared (860 nm) and full color (RGB) types to the lineup as variation for wavelengths, increasing the applications of our products.

Custom orders



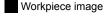
Example configuration



Imaging example : Imaging of foreign materials mixed in food



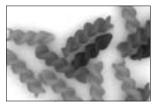
Description	Mixed foreign materials inspection	
Workpiece	Macaroni	
Before the proposal	HPD2-200SW	
After the proposal	HPD2-200IR860: Infrared type	
Result	Emphasizes the foreign material	





Macaroni

HPD2-200SW



It is difficult to form an image of the foreign material using white light.

HPD2-200IR860



It is possible to form an image of the foreign material using infrared

* This image was altered at our company for display purposes

Imaging example: Exterior imaging using color determination of a multi-colored workpiece

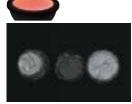


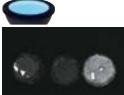
Chocolate

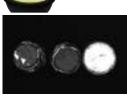


Description	Visual inspection
Workpiece	Chocolate
Before the proposa	
After the proposal	HPD2-200FC: Full color (RGB) type
Result	Allows for multi-color determination
	•

HPD2-200FC: Full color (RGB) type







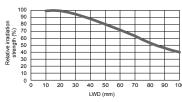


Imaging with red illumination Imaging with blue illumination Imaging with green illumination Imaging with white illumination

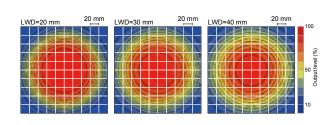
Data: Relative irradiation strength graph/Uniformity graph (Representative example)

HPD2-200SW Relative irradiation strength graph (LWD Characteristics)²

*1: Irradiation strength on the optical axis
*2: Illuminating distance from the Light Unit to the workpiece



Uniformity graph (Relative irradiation strength)



You can inquire using our website.

Requests for Light Unit Selection

Requests for Demo Products

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

*The graph included is for reference only and does not guarantee the quality of this product.

HPD2

LDR2 LDR2-LA LDR-LA1 SQR SQR-TP HLDR-IP HPR2 HPR LFR LKR FPR FPQ2 HLDL2 TH LFL HPD2 HPD LDM2 LAV PDM LFX2 LFV3 LFV2/LFV MSU MFU UV2 UV LNSP-UV-FN HLV2 LV LSP HFS/HFR HLV2-NR HLV2-3M- RGB-3W PFB2 PFBR LNSP CU-LNSP

LNSP-FN

LN/LN-HK LND2 HLND LT LNV Telecentric Lens Macro Lens

LDR2 LDR2-LA LDR-LA1 SQR SQR-TP HLDR-IP HPR2 HPR LFR LKR FPR FPQ2 LDL2

HLDL2

TH LFL

LN/LN-HK LND2 HLND LT LNV Telecentric Lens

Macro Lens





Refer to our website for product details.

CCS HPD2 Use a search engine





your smartphone or cell phone.

Lineup

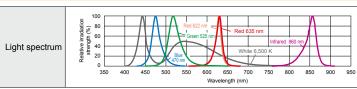
Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Options	Recommended Control Units	Weight
HPD2-75RD	Red	24 V / 17 W	635 nm			
HPD2-75SW	White	24 V / 16 W	6,500 K		PD3	
HPD2-75BL	Blue	24 V / 10 VV	470 nm	Bracket	PSB PTU2	140 g
HPD2-75IR860	Infrared	24 V / 12 W	860 nm			
HPD2-75FC*1	Red/Green/Blue	24 V / 6.0 W	622 nm/525 nm/470 nm		PD3	
HPD2-100RD	Red	24 V / 17 W	635 nm			
HPD2-100SW	White	24 V / 23 W	6,500 K		PD3	160 g
HPD2-100BL	Blue	24 V / 23 VV	470 nm	Bracket	PSB PTU2	
HPD2-100IR860	Infrared	24 V / 23 W	860 nm			
HPD2-100FC*1	Red/Green/Blue	24 V / 11 W	622 nm/525 nm/470 nm		PD3	
HPD2-150RD	Red		635 nm	Bracket		
HPD2-150SW	White	24 V / 27 W	6,500 K		PD3	
HPD2-150BL	Blue		470 nm		PSB PTU2	285 g
HPD2-150IR860	Infrared	24 V / 35 W	860 nm			
HPD2-150FC*1	Red/Green/Blue	24 V / 15 W	622 nm/525 nm/470 nm		PD3	
HPD2-200RD	Red	24 V / 34 W	635 nm			
HPD2-200SW	White	24 V / 41 W	6,500 K	Bracket		
HPD2-200BL	Blue	24 V / 41 VV	470 nm		PD3	460 g
HPD2-200IR860	Infrared	24 V / 46 W	860 nm			
HPD2-200FC*1	Red/Green/Blue	24 V / 19 W	622 nm/525 nm/470 nm			
HPD2-250RD	Red	24 V / 45 W	635 nm			
HPD2-250SW	White	24.1/./46.10/	6,500 K			
HPD2-250BL	Blue 24 V / 46 W		470 nm	Bracket	PD3	650 g
HPD2-250IR860	Infrared	24 V / 46 W	860 nm			
HPD2-250FC*1	Red/Green/Blue	24 V / 24 W	622 nm/525 nm/470 nm			
HPD2-400RD	Red	24 V / 45 W	635 nm			
HPD2-400SW	White	041//4014	6,500 K			
HPD2-400BL	-400BL Blue 24 V / 46 V	24 V / 40 VV	470 nm	-	PD3	1,300 g
HPD2-400IR860	Infrared	24 V / 46 W	860 nm			
HPD2-400FC*1	Red/Green/Blue	24 V / 30 W	622 nm/525 nm/470 nm			

Extension Cables P.196

Control Unit Selection Guide ▶ P.155

Control Unit Page ▶ P.159

LED properties



If using a sharp-cut filter, please use the R60 (option). For details about the sharp-cut filter, refer to P.189.

Achieves installation using

on a vertical surface

installation holes with a larger

gap than the Light Unit body installation holes, or installation

Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

Options



Combine with a Ring Light to achieve imaging by light switching and simultaneous lighting

Light joint bracket

Model name	Applicable Light Unit (Common for all colors)	
BK-75-JO	HPD2-75 series	
BK-100-JO	HPD2-100 series	
BK-150-JO	HPD2-150 series	
BK-200-JO	HPD2-200 series	
BK-250-JO	HPD2-250 series	

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Combine with a Coaxial Light to solve uneven illumination and achieve uniform illumination from all directions.

Coaxial Light joint bracket

Model name	Applicable Light Unit (Common for all colors)
BK-HPD2-75-LFV	HPD2-75 series
BK-HPD2-100-LFV	HPD2-100 series
BK-HPD2-150-LFV	HPD2-150 series
BK-HPD2-200-LFV	HPD2-200 series
BK-HPD2-250-LFV	HPD2-250 series

Model name	Applicable Light Unit (Common for all colors)	
BK-75-CI	HPD2-75 series	
BK-100-CI	HPD2-100 series	
BK-150-CI	HPD2-150 series	
BK-200-CI	HPD2-200 series	
BK-250-CI	HPD2-250 series	

Expansion mounting bracket

. Example of the expansion mounting bracket in use



Dome Light:Image of usage with the HPD2-250SW

We have various materials.

P.185

3D CAD

Product Fliers

P.186

Data Sheets

Download here. http://www.ccs-grp.com/dl/

Examples of Custom Ordered Products

^{*1:} Use a 3-channel Control Unit for a full color (RGB) type.
*1: The full color (RGB) type cannot be used in combination with Strobe Control Units (PTU2-3024, BB-V24S30-M, BB-V24S30-S).

ON/OFF control is possible via the strobe mode or ON/OFF mode of the PD3 series, and continuous lighting Control Units (PD2 series, BB series, etc.).

Regulations, Etc.

HPD2

LDR2 LDR2-LA LDR-LA1

SQR SQR-TP

HLDR-IP

HPR2

HPR

LFR LKR FPR FPQ2

LDL2

HLDL2 TH LFL HPD2 HPD LDM2

LAV PDM LFX2 LFV3 LFV2/LFV MSU MFU

UV2 UV

IR

LV

LSP

HFS/HFR

HLV2-NR

PFB2 PFBR LNSP CU-LNSP LNSP-FN LN/LN-HK LND2 HLND LT LNV Telecentric Lens

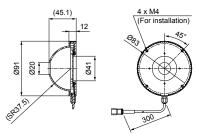
HLV2-3M- RGB-3W

HLV2

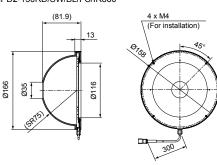
LNSP-UV-FN

Dimensions (mm)

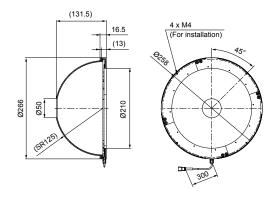
HPD2-75RD/SW/BL/FC/IR860



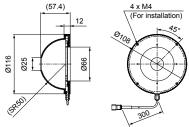
HPD2-150RD/SW/BL/FC/IR860



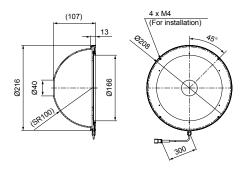
HPD2-250RD/SW/BL/FC/IR860



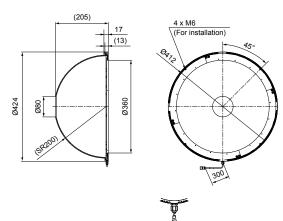
HPD2-100RD/SW/BL/FC/IR860

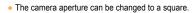


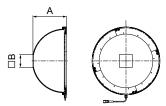
HPD2-200RD/SW/BL/FC/IR860



HPD2-400RD/SW/BL/FC/IR860







Special order

ĺ	Model	Dimension A	Dimension
	HPD2-75□-SQ20	45.1	20
	HPD2-100□-SQ30	56.7	30
	HPD2-150□-SQ40	81.3	40
	HPD2-200□-SQ50	105.8	50
	HPD2-250□-SQ60	128.5	60
	HPD2-400□-SQ80	201.2	80

- * ☐ is a placeholder for letters that indicate the color of the emitted light.
 * Dimensions are subject to change.

- * The full color type (HPD2-□□FC, HPD2-400FC-FT) has three connectors.
- Use a 3-channel Control Unit if controlling intensity separately for each color.
- * The full color (RGB) type cannot be used in combination with Strobe Control Units (PTU2-3024, BB-V24S30-M, BB-V24S30-S).

ON/OFF control is possible via the strobe mode or ON/OFF mode of the PD3 series, and continuous lighting Control Units (PD2 series, BB series, etc.).

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.115 for details.

Macro Lens