SQR-TP HLDR-IP

LFV2

PFB2

LNSP-FN LN/LN-HK LNSD

LND2 Diffused HLND LT LNV/HLDN LNIS

LNIS-FN

Macro Lens

Dome Lights HPD2 series

Refer to our website for product details.

CCS HPD2 Use a search engine

▶ Search

your smartphone or cell phone.

Provides diffused light evenly through the dome-shaped

reflective panel HPD2-250IR860 HPD2-200FC HPD2-400RD HPD2-150BL HPD2-100SW

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.

Semiconductor industry (Circuit board)



HPD2-100SW (White)

Food industry (Chocolate)



HPD2-250SW (White)



Electronic parts industry (Condenser)



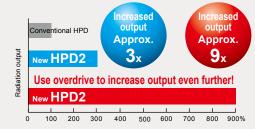
HPD2-150SW (White)

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.

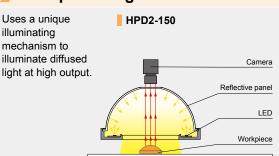
Added two sizes and an infrared and full color (RGB) type

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



We have various materials.

Product Fliers

Data Sheets

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

Imaging example: Imaging of foreign materials mixed in food

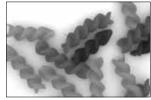


Description	Mixed foreign materials inspection
Workpiece	Macaroni
Before the proposal	HPD2-200SW
After the proposal	HPD2-200IR860: Infrared type
Result	Emphasizes the foreign material



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 light.

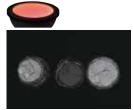
Imaging example: Exterior imaging using color determination of a multi-colored workpiece

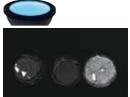


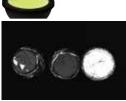


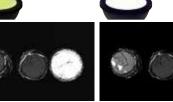
Description	Visual inspection
Workpiece	Chocolate
Before the propos	al –
After the proposal	HPD2-200FC: Full color (RGB) type
Result	Allows for multi-color determination

HPD2-200FC: Full color (RGB) type







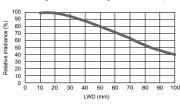


Imaging with red illumination Imaging with blue illumination Imaging with green illumination Imaging with white illumination

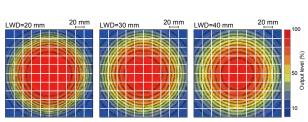
Data: Relative irradiance graph/Uniformity graph (Representative example)

HPD2-200SW Relative irradiance graph (LWD Characteristics) 2

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



Uniformity graph (Relative irradiance)



You can inquire using our website.

Requests for Light Unit Selection

Requests for Loan

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.

LDR2

LDR2-LA LDR-LA1 SQR-TP Diphing HLDR-IP

HPR Lighting LFR Diffused LKR FPR FPQ2 LDL2

Direct Lighting PTDLB HLDL2 тн LFL

HPD LDM2 LAV PDM LFX2 LFV3 LFV2

Collimated Lighting MSM MSM UV2 UV

LNSP-UV-FN Infrared Lighting

HLV2 ١٧ LSP HFS/HFR HLV2-NR HLV2-3M-RGB-3W PFB2 PFBR

LNSP CONVERGENT LN/LN-HK LNSD

LND2 Diffused HIND HIND

LNV/HLDN

LNIS-FN

Macro Lens

^{*} This workpiece was processed by CCS for sample imaging.

LDR2

LFR

LKR



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	
HPD2-100BL	Blue	24 V / 23 VV	470 nm	Bracket	PSB PTU2	160 g
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			
HPD2-150SW	White	24 V / 27 W	6,500 K		PD3	
HPD2-150BL	Blue		470 nm	Bracket	PSB PTU2*	285 g
HPD2-150IR860	Infrared	24 V / 35 W	860 nm		*Cannot use infrared.	
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	HPD2-200IR860 Infrared 24		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 V / 46 W	6,500 K			
HPD2-250BL	Blue	24 V / 46 VV	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	24.1//46.14/	6,500 K	-		
HPD2-400BL	Blue	24 V / 46 W	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			

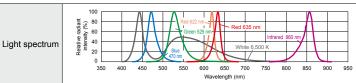
Extension Cables P.222 Control Unit Selection Guide ▶ P.181

Control Unit Page ▶ P.185

(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.).

LED properties



If using a sharp-cut filter, please use the R60 (option). For details about the sharp-cut filter, refer to P.215.

Achieves installation using

installation holes with a larger

gap than the Light Unit body

on a vertical surface

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	



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

Expansion mounting bracket

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	

. Example of the expansion mounting bracket in use



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

We have various materials.

P.219

3D CAD

Product Fliers

P.220

Data Sheets

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

P.220

Examples of Custom Ordered Products

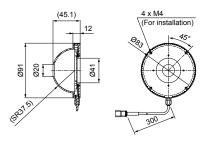
^{*1:} Use a 3-channel Control Unit for a full color (RGB) type.
*1: The full color (RGB) type cannot be used in combination with Strobe Control Units

▶ P.215

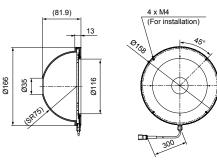
Dimensions (mm)

* M4 and M6 installation holes are tapped and perforated holes.

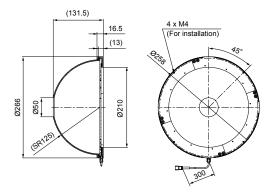
HPD2-75RD/SW/BL/FC/IR860



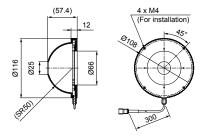
HPD2-150RD/SW/BL/FC/IR860



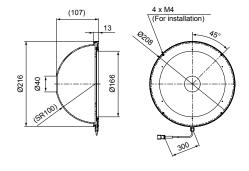
HPD2-250RD/SW/BL/FC/IR860



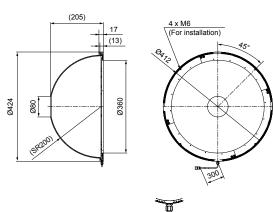
HPD2-100RD/SW/BL/FC/IR860



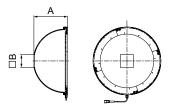
HPD2-200RD/SW/BL/FC/IR860



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



The camera aperture can be changed to a square.



Special order

Model	Dimension A	Dimension E
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	130.3	60
HPD2-400 □-SQ80	205	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.

You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.125 for details.

LDR2 LDR2-LA

LDR-LA1 SQR SQR-TP Convergent Lighting HTDL-Ib HPR2 HPR

Lighting LFR Diffused LKR FPR FPQ2 LDL2 FDLB Hing A

HLDL2 тн LFL HPD LDM2 LAV PDM

LFV3 LFV2 Colimated Lighting MSM MSM

LFX2

Ultraviolet Lighting ASM ASM TANGET LNSP-UV-FN Infrared Lighting

HLV2 LV LSP Etc. Lighting, HFS/HFR HLV2-NR

Spot HLV2-3M-RGB-3W PFB2 PFBR LNSP

COnvergent Lighting L LN/LN-HK

LNSD LND2

Diffused HIND HIND LT

LNV/HLDN

LNIS LNIS LNIS-FN

Macro Lens