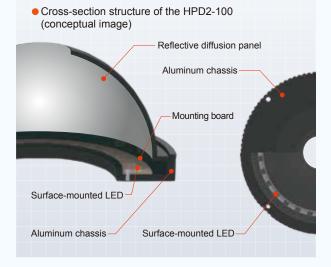


945 East 11th Avenue Tampa, FL 33605 Phone: (813) 984-0125 Contact: Sales@pyramidimaging.com https://pyramidimaging.com

Uniform illumination of high output diffused light

Light from the surface-mounted LED is scattered inside of the dome-shaped reflective diffusion panel. The scattered light from the wide uniform region is illuminated onto the workpiece surface evenly.



Supports applications for a wide variety of industries

The Dome Lights are applicable for uses in various industry. The usage includes the appearance inspection of the glossy, curved or uneven surface, and also includes the printing inspection, color discrimination inspection and so on.



Food industry



HPD2-250SW (White)

Electronics part industry
 (Condenser)



- HPD2-150SW (White)
- Packaging industry (Top of a beverage container)



Added size variation

HPD2-75 model NEW! Applications: Examining the text and exterior of metal parts, etc.

Imaging via the HPD2-75RD (red)



Workpiece: Nut



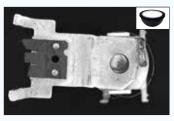
Performs accurate imaging of the engraved text, reducing reflection from the nut surface.

HPD2-200 model NEW! Applications: Examining faults, engraving, or print on glossy surfaces, etc.

Imaging via the HPD2-200SW (White)



Workpiece: Metal parts



Performs accurate imaging of the exterior, reducing reflection from the metal surface.

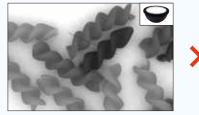
Added wavelength variation

Lineup of infrared types NEW! Applications: Examining for foreign material mixed in with food products, examining exterior of packaging, etc.

Comparison of imaging for the HPD2-200IR860 (infrared) and HPD2-200SW (white)



Workpiece: Macaroni



White light imaging makes differentiating between the foreign material and the macaroni difficult.



Infrared light imaging allows for differentiating between the foreign material and the macaroni.



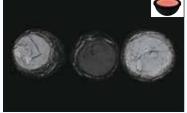


The change in the radiation amount over time varies for each color (red, green, blue). Periodic adjustments may be necessary after initial radiation settings.

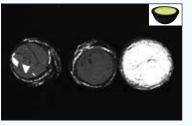
Lineup of full color (RGB) types **NEW!** Applications: Examining the exterior by color for multi-colored workpieces,

examining the exterior of food products, etc. Comparison of imaging via the HPD2-200FC (full color)

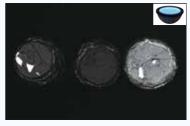
Workpiece: Chocolate



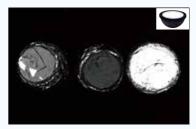
Imaging with red illumination



Imaging with green illumination



Imaging with blue illumination



Imaging with white (all colors lit up) illumination

Provided two types of joint brackets

* Not supported for the HPR2-400-FT or HPD2-400 models.

Achieve optimal imaging by combining the Dome Light HPD2 Series with the Ring Light or Coaxial Light. Refer to the rear cover.

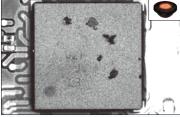
Examples of using the light joint bracket



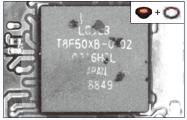
Comparison of imaging for the HPD2-75RD (red) and the combination with the low angle light LDR-96RD2-LA1 (red)



Workpiece: Electronics part on a substrate



With Dome Light imaging, the surface text is erased but the foreign materials and dirt are captured.



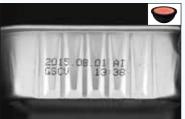
Combining the Dome Light and the low angle light allows for imaging of the text, foreign material, and dirt on the surface.

Examples of using the Coaxial Light joint bracket





Workpiece: Pet food container



Imaging with Dome Light captures reflections from the bumps on the container.



Allows for uniform imaging of the whole container by combining the Dome Light with a Coaxial Light.

High Power Dome Light HPD2 Series



Specifications

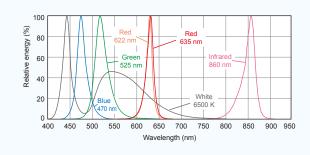
Series name	Model	LED color	Power consumption (max.)	Peak wavelength/Correlated color temperature (typ.)	Weight (max.)
HPD2-75 Series	HPD2-75RD	Red	17 W	635 nm	140 g
	HPD2-75SW	White	16 W	6500 K	
	HPD2-75BL	Blue	16 W	470 nm	
	HPD2-75FC	(Red/Green/Blue)	6.0 W (Red: 1.4 W / Green: 2.3 W / Blue: 2.3 W)	(622 nm / 525 nm / 470 nm)	
	HPD2-75IR860	Infrared	12 W	860 nm	
HPD2-100 Series	HPD2-100RD	Red	17 W	635 nm	160 g
	HPD2-100SW	White	23 W	6500 K	
	HPD2-100BL	Blue	23 W	470 nm	
	HPD2-100FC	(Red/Green/Blue)	11 W (Red: 2.8 W / Green: 4.1 W / Blue: 4.1 W)	(622 nm / 525 nm / 470 nm)	
	HPD2-100IR860	Infrared	23 W	860 nm	
HPD2-150 Series	HPD2-150RD	Red	27 W	635 nm	285 g
	HPD2-150SW	White	27 W	6500 K	
	HPD2-150BL	Blue	27 W	470 nm	
	HPD2-150FC	(Red/Green/Blue)	15 W (Red: 3.7W / Green: 5.5W / Blue: 5.5W)	(622 nm / 525 nm / 470 nm)	
	HPD2-150IR860	Infrared	35 W	860 nm	
HPD2-200 Series	HPD2-200RD	Red	34 W	635 nm	460 g
	HPD2-200SW	White	41 W	6500 K	
	HPD2-200BL	Blue	41 W	470 nm	
	HPD2-200FC	(Red/Green/Blue)	19 W (Red: 4.6W / Green: 6.9W / Blue: 6.9W)	(622 nm / 525 nm / 470 nm)	
	HPD2-200IR860	Infrared	46 W	860 nm	
	HPD2-250RD	Red	45 W	635 nm	650 g
HPD2-250 Series	HPD2-250SW	White	46 W	6500 K	
	HPD2-250BL	Blue	46 W	470 nm	
	HPD2-250FC	(Red/Green/Blue)	24 W (Red: 5.5W / Green: 9.1W / Blue: 9.1W)	(622 nm / 525 nm / 470 nm)	
	HPD2-250IR860	Infrared	46 W	860 nm	
	HPD2-400RD	Red	45 W	635 nm	1,300g
HPD2-400 Series	HPD2-400SW	White	46 W	6500 K	
	HPD2-400BL	Blue	46 W	470 nm	
	HPD2-400FC	(Red/Green/Blue)	30 W (Red: 7.3W / Green: 11W / Blue: 11W)	(622 nm / 525 nm / 470 nm)	
	HPD2-400IR860	Infrared	46 W	860 nm	

* Compared to the conventional HPR Series, the power consumption, peak wavelength, and correlated color temperature have changed. Confirm specifications and the applicable Control Unit before selecting, * Regarding use of the full color type: The change in the radiation amount over time varies for each color (red, green, blue). Periodic adjustments may be necessary after initial radiation settings

Common specifications

Input voltage	24 VDC			
Connector	SMR-03V-B *			
Polarity	1: (+), 2: NC, 3: (-)			
Cable length	300 mm			
Cooling method	Natural cooling			
Operating environment (indoors only)	Temperature: 0 to 40°C, Humidity: 20% to 85% RH (with no condensation)			
Storage environment	Temperature: -20 to 60°C, Humidity: 20% to 85% RH (with no condensation)			
CE marking	Safety standard: EN62471 compliant			
Environmental regulation	RoHS compliant			
Case material	Aluminum alloy, Resin			
There are three connectors for the full color type.				

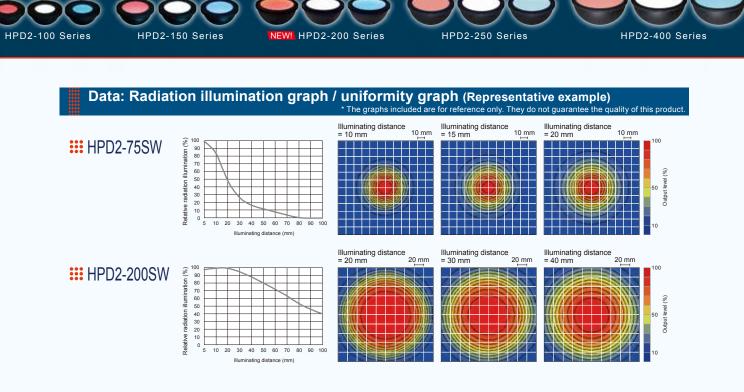
Light spectrum



Strobe lighting through overdrive achieves high output that is approximately triple* of the constant lighting * This is a calculated value. Results may vary for individual units

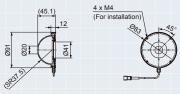
Combine with our strobe Control Unit (PTU2/BB Series) to achieve strobe lighting by overdrive. This allows for lighting much brighter than constant lighting (the full color type is not supported).

* Overdrive: The voltage or current provided to the light is increased, allowing for lighting brighter than normal.

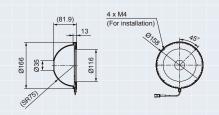


Dimensions (mm)

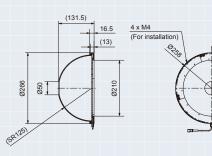
HPD2-75RD/SW/BL/FC/IR860



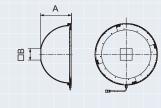
HPD2-150RD/SW/BL/FC/IR860



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



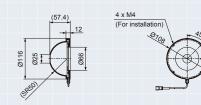
Square type dimensions



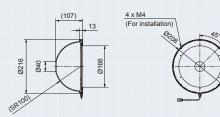
Dimensions table

Model	A dimension	B 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	130.3	60		
HPD2-400□-SQ80	205	80		
* is a placeholder for letters that indicate the color of the emitted light				

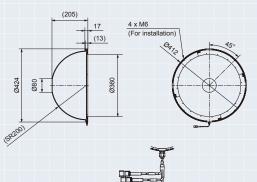
HPD2-100RD/SW/BL/FC/IR860



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



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



* The full color type (HPD2-□□FC) has three connectors. Use a Control Unit equipped with three channels when adjusting intensity by color.

* The full color type and our company's strobe Control Unit (PTU2/BB Series) cannot be used together.

Bracket Dimensions (mm)

