

Dome Lights

HPD Series

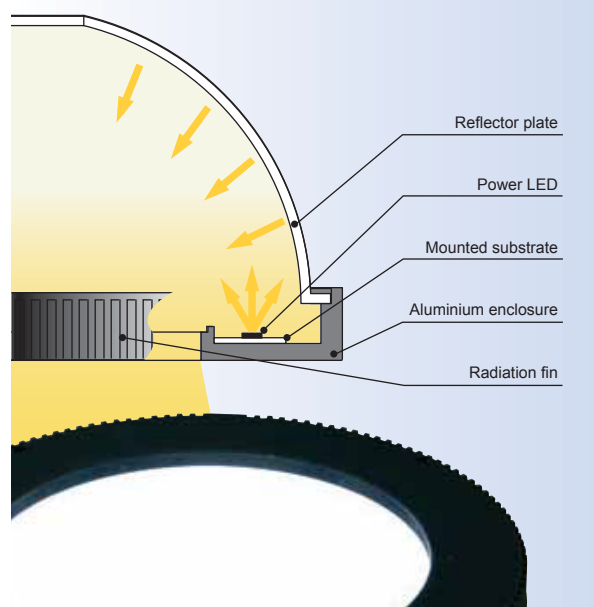
"Brighter" "More uniform" "Easy to use" High-Power Dome Lights
Enhanced light intensity and larger uniform area allows for use in more diversified applications.



Achievement of high-luminosity uniform diffusion light

The use of power LEDs greatly enhances the light intensity compared with conventional dome lights. The unique illumination structure allows for a larger uniform area.

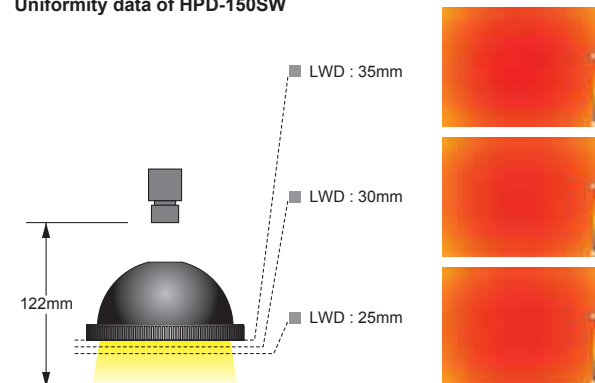
Cross section structure of HPD Series



Achievement of larger uniform areas

Enhanced light intensity and larger uniform area broaden the use of the lights to more diverse environments and applications.

Uniformity data of HPD-150SW



* This shows the relative brightness distribution when the brightest area is set at 100. The data given here is intended for reference purposes only and is not intended to assure the quality of the product.

Camera	1/2 inch CCD
Lens	f12mm
Macro ring	0mm
WD	122mm
Field (Y direction)	50mm
Lighting	HPD-150SW
LWD	25,30,35mm

Product Lineup Table

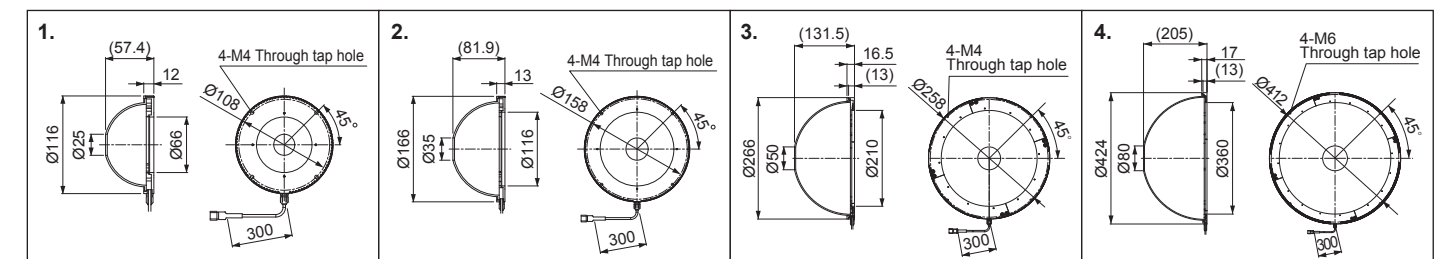
Direct Number : You can easily access the web page providing information on any desired product by simply entering the 7-digit direct number in the space provided. (Refer to the back cover of this brochure.)

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
HPD	1002935	HPD-100RD	Red	24V/9.0W	—	1
	1002934	HPD-100SW	White	24V/14W		
	1002936	HPD-100BL	Blue	24V/14W		
	1002941	HPD-150RD	Red	24V/16W	—	2
	1002940	HPD-150SW	White	24V/20W		
	1002942	HPD-150BL	Blue	24V/20W		
	1003214	HPD-250RD	Red	24V/25W	—	3
	1003213	HPD-250SW	White	24V/37W		
	1003215	HPD-250BL	Blue	24V/37W		
	1003217	HPD-400RD	Red	24V/25W	—	4
	1003216	HPD-400SW	White	24V/41W		
	1003218	HPD-400BL	Blue	24V/41W		

* HPD Series cannot be used in combination with CCS Strobe Power Supply Unit (PTU2 Series, etc.)

* The peak wavelength of Red lights is 625nm. R60 (optional) must be used when using a sharp-cut filter.

Dimensions (Unit: mm)



* HPD Series cannot be used in combination with our strobe light (PTU2 Series, etc.).

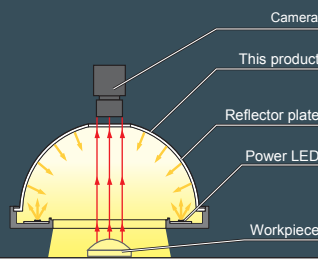
(Lighting ON/OFF control by an ambient light source is possible.)

The peak wavelength of red light is 625nm. Use R60 (optional) for use with a sharp-cut filter (See pg. 67).

If you register as a CCS member, you can download all materials (such as PDF or DXF drawings and operation manuals) from our website. You can also request us to select the appropriate Light Unit, borrowing demonstration units and to quote the product's price. Please go ahead and register as a member today. (Refer to back cover of this brochure.)

Illumination structure of HPD-150

The use of power LEDs significantly enhances the light intensity compared with conventional lights. The unique illumination structure achieves a larger uniform area.



Example of surface-emitting dome light images

Images of appearance of cell phone
Macroscopic image



Unevenness occurs in the illumination area with the 100W halogen ring lamp.



Light used: 100W halogen ring lamp

The surface of a workpiece is imaged evenly and brightly with the high-power dome light.



Light used: HPD-100RD

Example of surface-emitting dome light images

Images of appearance and printed date of food product

The surface of a workpiece cannot be irradiated uniformly with the LED ring light



Light used: LED ring light

The surface of a workpiece is imaged evenly and brightly with the high-power dome light.



Light used: HPD-150SW

Images of appearance of food product

Diffused LED light is not available to have a sufficient intensity level for 1/4000 sec of exposure time.



Light used: Diffused LED light

HPD-250SW has a sufficient intensity level as it is available to use even in 1/4000 sec of exposure time.



Light used: HPD-250SW