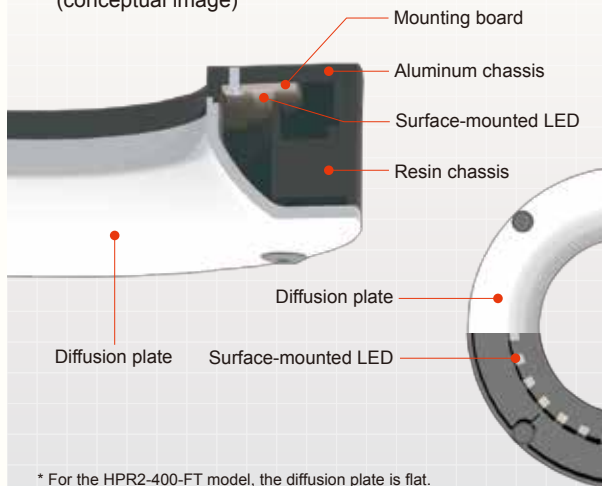


Uniform illumination of high output diffused light

Through the surface-mounted LED and specially finished* diffusion plate, we achieved high output illumination of uniform diffused light.

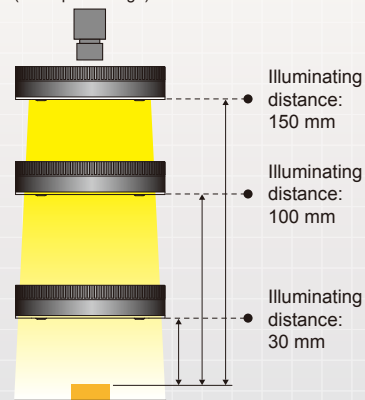
- Cross-section structure of the HPR2-100 (conceptual image)



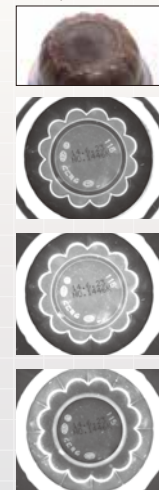
Supports a wide variety of applications, from low-angle to high-angle lighting

Our original illuminating mechanism diffuses and illuminates without wasting any of the light illuminated from the LED. Even if the distance from the workpiece to the light is changed, there is little change in the uniform region. Therefore, it can be used in a wide range of applications.

- Illumination with the HPR2-200BL (conceptual image)



- Workpiece: Food product container



Added size variation

HPR2-75 model **NEW!**

Applications: Text recognition on electronics parts, detecting edges of metal parts, etc.



- Comparison of imaging for the HPR2-75RD (red) and with the Ring Light LDR2-70RD2 (red)



Workpiece: Electronics part in embossed tape



With Ring Lights, reflection from the embossed tape surface makes it difficult to perform stable examination.



The new HPR2-75RD allows for text imaging that limits surface reflection.

HPR2-200 Series **NEW!**

Applications: Examining food products by color, examining for foreign materials in drugs, etc.



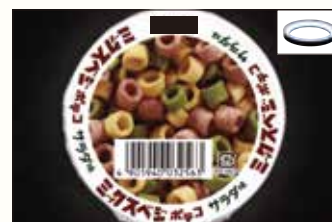
- Comparison of imaging for the HPR2-200SW (white) and with the Ring Light LDR2-90-30SW2 (white)



Workpiece: Snack



With Ring Lights, reflection from the packaging film makes it difficult to perform stable examination.



The new HPR2-200SW allows for exterior surface imaging that limits surface reflection.

Changed the shape of the diffusion plate

HPR2-250 Series **NEW!**

Applications: Examining text on packaging containers, examining the exterior of plastic products, etc.



- Comparison of imaging for the conventional HPR-250SW (white) and the new HPR2-250SW (white)



Workpiece: Instant food product



The conventional product had difficulty with imaging of print on the package from a low angle.

Illuminating distance: 50 mm



The new product allows for imaging of print on the package from a low angle.

Illuminating distance: 50 mm

Added wavelength variation

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

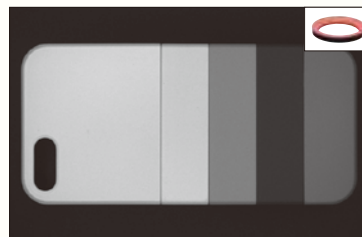
Lineup of full color (RGB) types **NEW!**

Applications: Examining the exterior by color for multi-colored workpieces, examining the exterior of food products, etc.

- Imaging with the HPR2-200FC (full color)



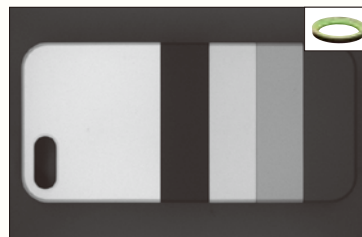
Workpiece: Smartphone case



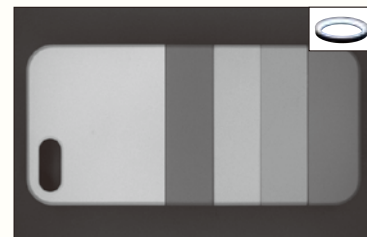
Imaging with red illumination



Imaging with blue illumination



Imaging with green illumination



Imaging with white (all colors lit up) illumination

Providing an expansion mounting bracket

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

We provide the installation method that is optimal for your examination environment, such as by using the expansion mounting bracket to perform examinations on the side or bottom of the workpiece.

- Examples of using the expansion mounting bracket



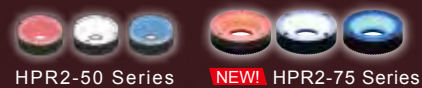
Ring light:
Image of usage with the HPR2-200RD



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

Refer to the rear cover.

High Power Ring Light HPR2 Series



HPR2-50 Series

NEW! HPR2-75 Series

Specifications

Series name	Model	LED color	Power consumption (max.)	Peak wavelength/Correlated color temperature (typ.)	Weight (max.)
HPR2-50 Series	HPR2-50RD	Red	7.6 W	635 nm	46 g
	HPR2-50SW	White	9.1 W	6000 K	
	HPR2-50BL	Blue	9.1 W	470 nm	
	HPR2-50FC	(Red/Green/Blue)	3.8 W (Red: 1.0 W / Green: 1.4 W / Blue: 1.4 W)	(622 nm / 525 nm / 470 nm)	
HPR2-75 Series	HPR2-75RD	Red	17 W	635 nm	160 g
	HPR2-75SW	White	16 W	6000 K	
	HPR2-75BL	Blue	16 W	470 nm	
	HPR2-75FC	(Red/Green/Blue)	6.0 W (Red: 1.4W / Green: 2.3W / Blue: 2.3W)	(622 nm / 525 nm / 470 nm)	
HPR2-100 Series	HPR2-100RD	Red	17 W	635 nm	170 g
	HPR2-100SW	White	23 W	6000 K	
	HPR2-100BL	Blue	23 W	470 nm	
	HPR2-100FC	(Red/Green/Blue)	11 W (Red: 2.8W / Green: 4.1W / Blue: 4.1W)	(622 nm / 525 nm / 470 nm)	
HPR2-150 Series	HPR2-150RD	Red	27 W	635 nm	250 g
	HPR2-150SW	White	27 W	6000 K	
	HPR2-150BL	Blue	27 W	470 nm	
	HPR2-150FC	(Red/Green/Blue)	15 W (Red: 3.7W / Green: 5.5W / Blue: 5.5W)	(622 nm / 525 nm / 470 nm)	
HPR2-200 Series	HPR2-200RD	Red	34 W	635 nm	380 g
	HPR2-200SW	White	41 W	6000 K	
	HPR2-200BL	Blue	41 W	470 nm	
	HPR2-200FC	(Red/Green/Blue)	19 W (Red: 4.6W / Green: 6.9W / Blue: 6.9W)	(622 nm / 525 nm / 470 nm)	
HPR2-250 Series	HPR2-250RD	Red	45 W	635 nm	510 g
	HPR2-250SW	White	46 W	6000 K	
	HPR2-250BL	Blue	46 W	470 nm	
	HPR2-250FC	(Red/Green/Blue)	24 W (Red: 5.5W / Green: 9.1W / Blue: 9.1W)	(622 nm / 525 nm / 470 nm)	
HPR2-400-FT Series	HPR2-400RD-FT	Red	45 W	635 nm	1,050 g
	HPR2-400SW-FT	White	46 W	6000 K	
	HPR2-400BL-FT	Blue	46 W	470 nm	
	HPR2-400FC-FT	(Red/Green/Blue)	30 W (Red: 7.3W / Green: 11W / Blue: 11W)	(622 nm / 525 nm / 470 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.

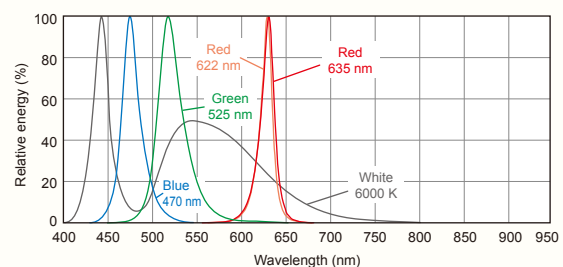
* Regarding use of the full color type: The change in the radiation amount over time varies for each color (red, green, blue). Periodic adjustments may be necessary after initial radiation settings.

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.



HPR2-100 Series



HPR2-150 Series



NEW! HPR2-200 Series



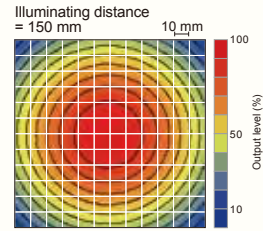
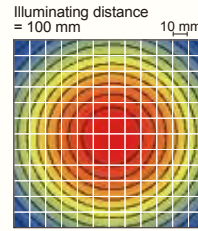
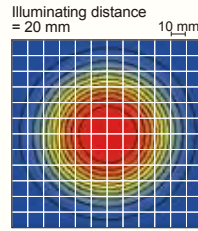
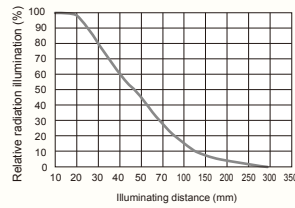
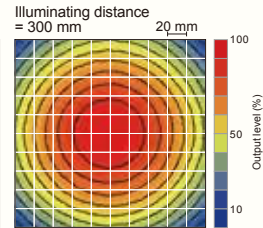
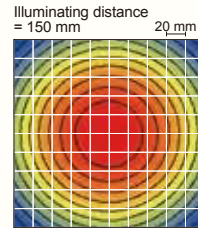
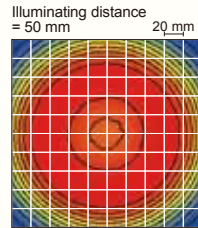
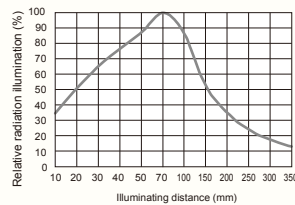
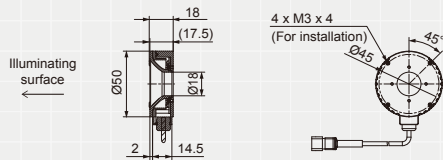
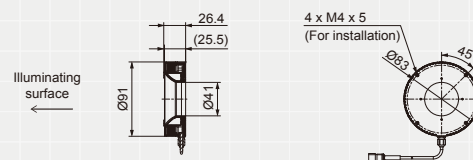
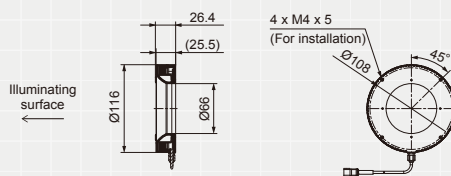
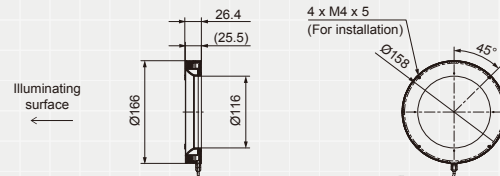
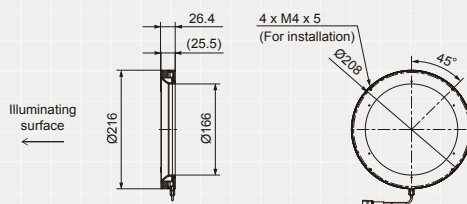
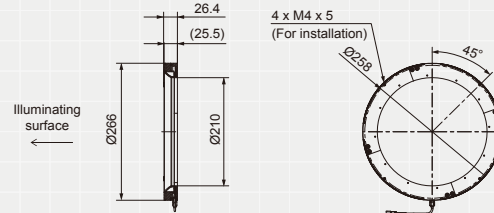
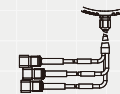
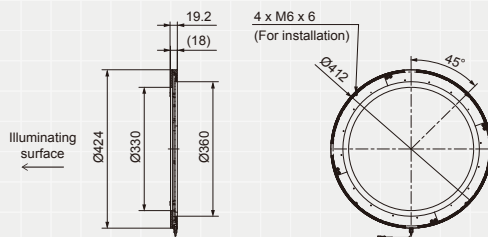
NEW! HPR2-250 Series



HPR2-400-FT Series

Data: Radiation illumination graph / uniformity graph (Representative example)

* The graphs included are for reference only. They do not guarantee the quality of this product.

HPR2-75SW**HPR2-200SW****Dimensions (mm)****HPR2-50RD/SW/BL/FC****HPR2-75RD/SW/BL/FC****HPR2-100RD/SW/BL/FC****HPR2-150RD/SW/BL/FC****HPR2-200RD/SW/BL/FC****HPR2-250RD/SW/BL/FC****HPR2-400RD-FT/SW-FT/BL-FT/FC-FT**

* For the HPR2-400-FT model, the diffusion plate is flat.

* The full color type (HPR2-□□FC, HPR2-400FC-FT) 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.