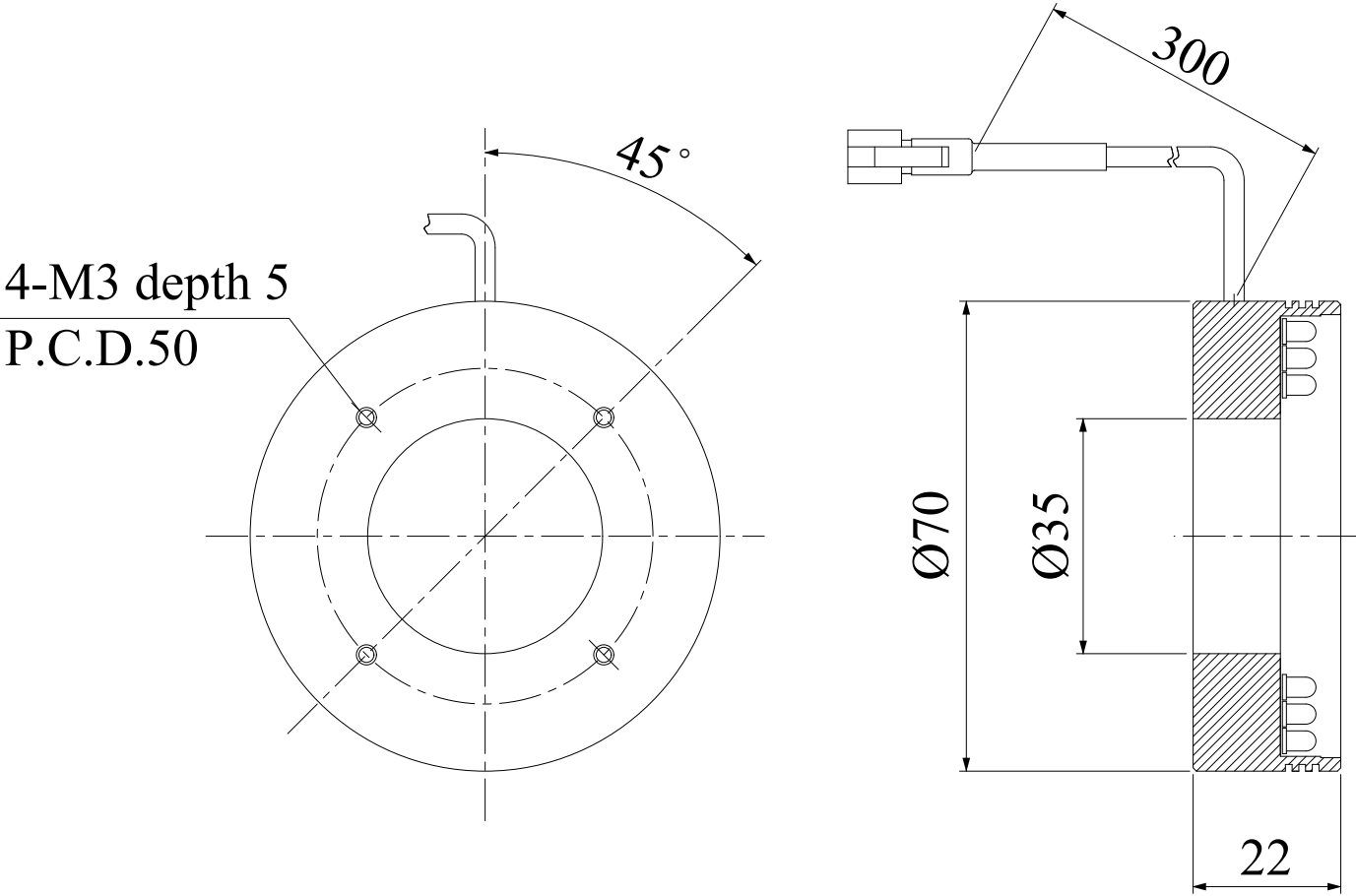


LDR2-70IR850/940

Model	LDR2-70IR850/940
Voltage	12V DC
Power consumption	7.6W
Mass	130g
Connector type	2P (1: + , 2: -)

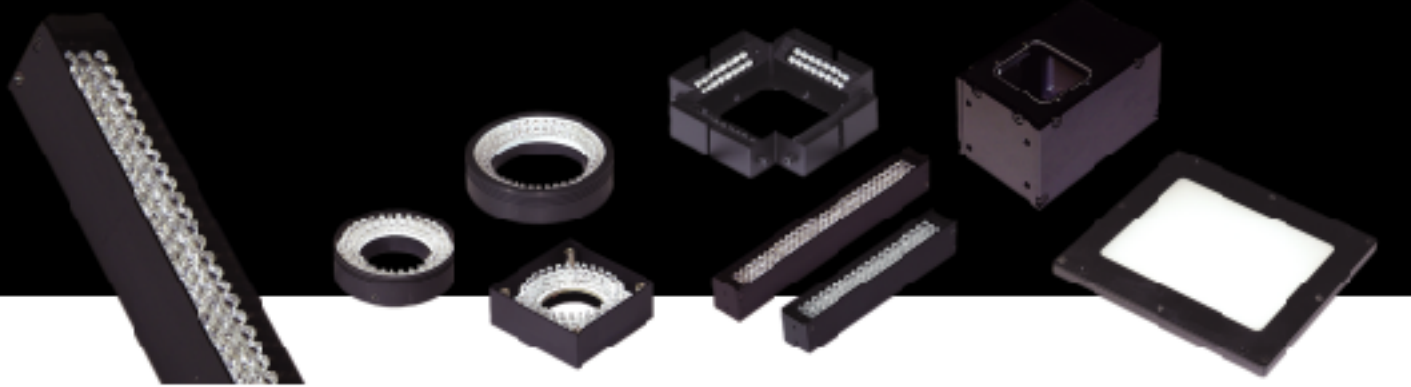
Third Angle Projection Units: mm





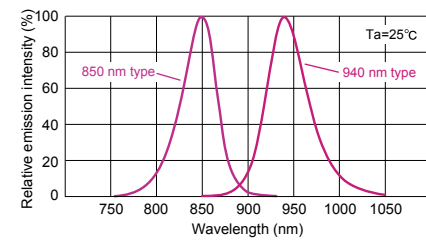
Infrared Lights IR Series

For imaging by means of the property of higher transmittance than that of visible light
Suitable for checking the presence of substances, inclusions of foreign matter, and character recognition
by means of transmittance through varieties of dye inks and solids.



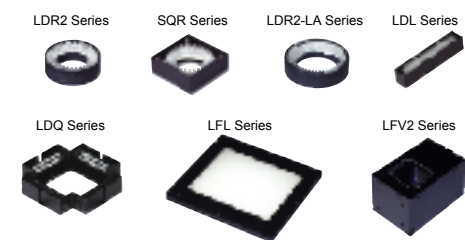
IR Series offers choice of peak wavelengths of 850-nm or 950-nm

850-nm versus 940-nm peak wavelength emission spectrum

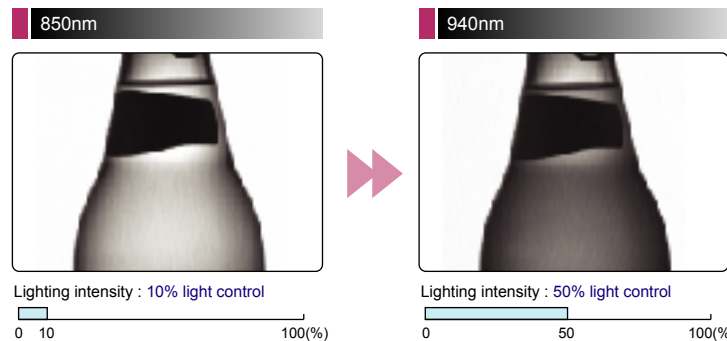


Infrared lighting IR Series are available in the LED peak wavelengths of 850nm and 940nm. A wide product lineup offers optimum lighting solutions best suited to a variety of inspection objects, inspection environments and optical systems.

Product line for IR

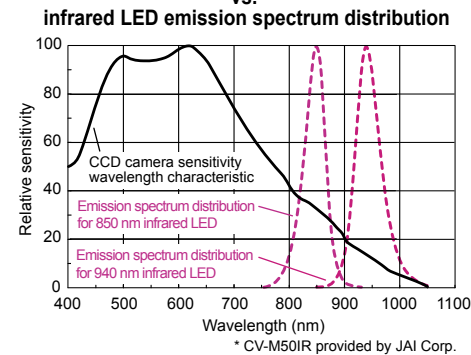


Imaging with peak wavelength of 850 nm vs. 940 nm



Use a CCD camera sensitive in the near infrared region for use with an infrared light.
A shot image is affected by the distribution of the emission spectrum of the UV light LED and the spectral sensitivity characteristics of a CCD camera.
Optimized combination with an optical system is very important for achieving stable images.

Typical camera* spectral sensitivity characteristic vs.

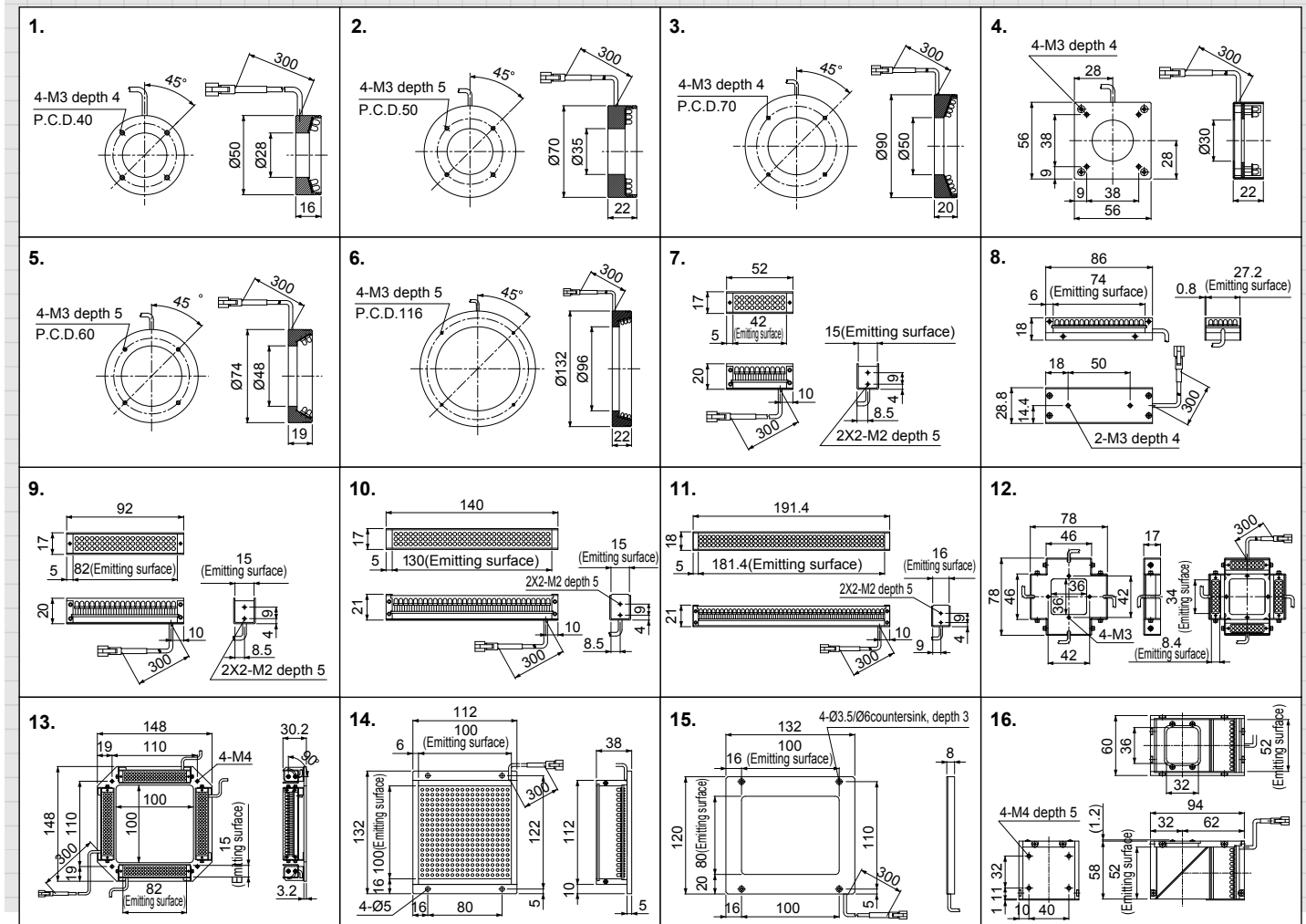


Product Lineup Table

Series	Model Name	Color	Power Consumption	Options	Dimension
LDR2	LDR2-50IR850□	●	12V/3.8W	—	1
	LDR2-50IR940	●	12V/3.8W	—	1
	LDR2-70IR850□	●	12V/7.6W	—	2□
	LDR2-70IR940	●	12V/7.6W	—	2□
	LDR2-90IR850□	●	12V/14W	—	3
	LDR2-90IR940	●	12V/14W	—	3
SQR	SQR-56IR850□	●	12V/3.8W	—	4□
	SQR-56IR940	●	12V/3.8W	—	4□
LDR2-LA	LDR2-74IR850-LA□	●	12V/5.7W	—	5□
	LDR2-74IR940-LA	●	12V/5.7W	—	5□
	LDR2-132IR850-LA□	●	12V/16W	—	6
	LDR2-132IR940-LA	●	12V/16W	—	6
LDL	LDL-42x15IR850□	●	12V/1.9W	—	7□
	LDL-42x15IR940	●	12V/1.9W	—	7□
	LDL-74x27IR850□	●	12V/6.9W	—	8
	LDL-74x27IR940	●	12V/6.9W	—	8

Series	Model Name	Color	Power Consumption	Options	Dimension
LDL	LDL-82x15IR850□	●	12V/3.8W	—	9
	LDL-82x15IR940	●	12V/3.8W	—	9
	LDL-130x15IR850□	●	12V/6.1W	—	10□
	LDL-130x15IR940	●	12V/6.1W	—	10□
	LDL-180x16IR850□	●	12V/8.4W	—	11□
	LDL-180x16IR940	●	12V/8.4W	—	11□
LDQ	LDQ-78IR850□	●	12V/6.1W	—	12□
	LDQ-78IR940	●	12V/6.1W	—	12□
	LDQ-150IR850□	●	12V/16W	—	13□
LDL	LDL-100x100IR850	●	24V/21W	—	14
	LDL-100x100IR940	●	24V/21W	—	14
LFL	LFL-100IR850□	●	12V/5.3W	—	15□
LFV2	LFL-100IR940	●	12V/5.3W	—	15□
	LFV2-50IR850□	●	12V/8.4W	—	16
	LFV2-50IR940	●	12V/8.4W	—	16

Dimensions (Unit: mm)

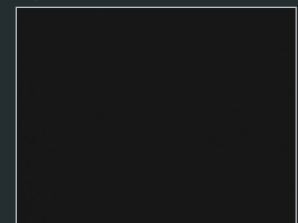


Infrared lighting application examples

Wafer image

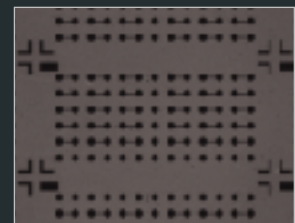
A backlight with visible light does not transmit through wafer.

Light used: LDL-100x100



An IR backlight passes through the wafer material to uniformly illuminate the pattern.

Light used: LDL-100x100IR850



With occluding graphics

Visible light of any wavelength illuminates the graphics behind the date.

Light used: LDL-74x27-SW



IR light passes through the occluding graphic pigment but not this printed date code enabling reliable OCR/OCV.

Light used: LDL-74x27IR850

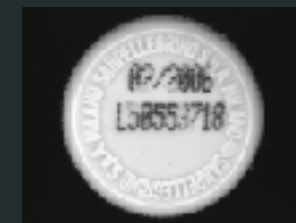


Infrared lighting application examples

Printed date code occluding molded surface features

Printed text on the cap absorbs visible light causing it to occlude any surface defects or feature detection in the image.

Light used: LDR2-132SW-LA



IR light passes through the printed text and reflect uniformly from the unbroken surface allowing for defect or feature detection.

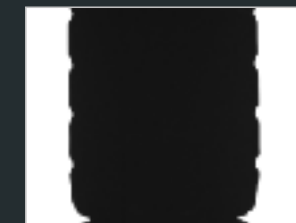
Light used: LDR2-132IR940-LA



Foreign matter mixed in beverage container

A visible light from a backlight does not penetrate the plastic bottle.

Light used: LFL-100



An IR backlight penetrates the plastic bottle and silhouettes the foreign object resting at the bottom for reliable detection.

Light used: LFL-100IR940

