Flat-Dome Lights
LFX2 Series

High Output, uniform diffused light

Reproduce the effects of both coaxial and dome illumination.

High output, uniform diffused light

The high output enables use with high-speed cameras. There is more than enough illumination for imaging at a shutter speed of 1/4,000.

Previous Model(LFX-100RD)	LFX2-100RD

The output of the previous model was too low for some applications.

With the LFX2, the output is sufficient for proper imaging at a shutter speed of 1/4,000.

Wavelengths from Visible Light to Infrared

Use these lights for a wide range of applications from visible light to invisible infrared light. The peak wavelength for Infrared lights is 850 nm.

Red Light	Infrared Light
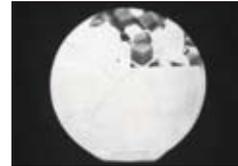
The printed pattern is still visible, making it difficult to see the surface condition.

The printed pattern is completely eliminated so that the surface condition can be easily inspected.

Broad Lineup for Optimal Images

Models are available with five emitting surface sizes: 50, 75, 100, 150, and 200 mm. Select red, white, or infrared light.
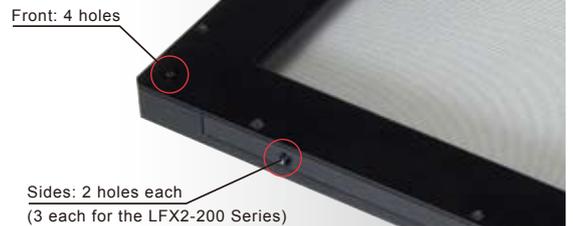

LFX2-50RD   LFX2-75RD   LFX2-100RD   LFX2-150IR850   LFX2-200SW

Variety of Mounting Methods

There are a total of twelve mounting holes: four in the front and two on each side. This selection of mounting surfaces means better matches to your application site environment.

Front: 4 holes

Sides: 2 holes each
(3 each for the LFX2-200 Series)

Illumination structure of LFX2-100

The dot pattern on the surface of the Light Guide Diffusion Plate controls illumination diffusion and transmission. The result is uniformly diffused light over the workpiece. The high output also enables the use of high-speed cameras.

Camera
On-chip LEDs
This model
Object
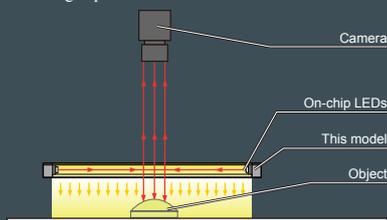
Examples of Flat-Dome Light Images

Application Examples in Packaging

The products are uniformly lighted without showing the printed pattern on the packages.
Light used: LFX2-200RD

Application Examples in Food Industry

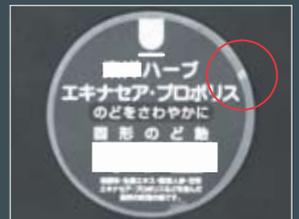Light is transmitted though tea leaves to detect only foreign objects.
Light used: LFX2-200IR850

Application Examples in Pharmaceuticals

The surface is uniformly lighted to inspect the edge or overlap of transparent film.
Light used: LFX2-200RD

Product Lineup Table

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LFX2	1004156	LFX2-50RD	●	24V / 11W	—	1
	1004160	LFX2-50SW	○	24V / 6.1W		
	1004164	LFX2-50IR850	●	24V / 6.6W		
	1004157	LFX2-75RD	●	24V / 11W	—	2
	1004161	LFX2-75SW	○	24V / 9.1W		
	1004165	LFX2-75IR850	●	24V / 14W		
	1004158	LFX2-100RD	●	24V / 16W	—	3
	1004162	LFX2-100SW	○	24V / 13W		
	1004166	LFX2-100IR850	●	24V / 14W		
	1004159	LFX2-150RD	●	24V / 21W	—	4
	1004163	LFX2-150SW	○	24V / 19W		
	1004167	LFX2-150IR850	●	24V / 20W		
	1004115	LFX2-200RD	●	24V / 31W	—	5
	1004116	LFX2-200SW	○	24V / 25W		
	1004117	LFX2-200IR850	●	24V / 27W		

*The peak wavelength for Red lights is 635 nm. If a sharp-cut filter is required, use a R60 Filter (optional).
*LFX2 Flat-Dome Lights cannot be used in combination with CCS Strobe Control Unit (PTU2 Series, etc.).
*For further details on these options, refer to page 91.

Dimension Diagrams (Unit: mm)