

Flat Lights

LFL Series

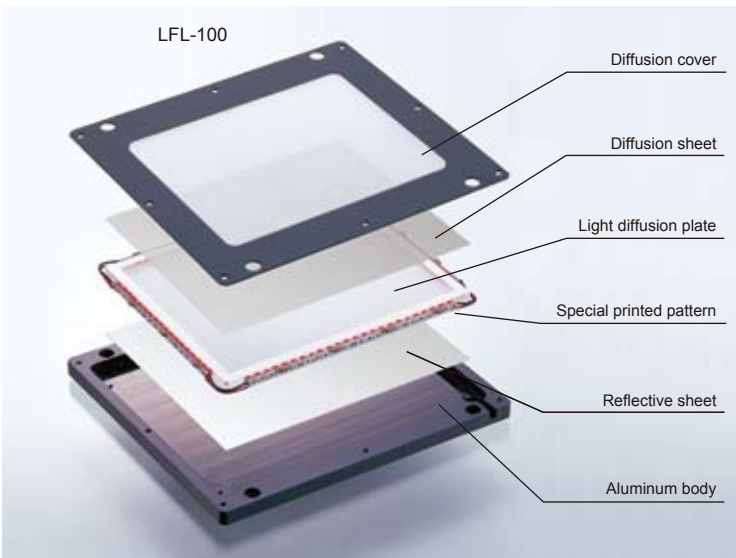
Silhouette inspection of an object using uniform lighting

Power-saving Flat Lights with a compact design.



Flat Lights with Unique Light-guiding Technology

The use of a unique CCS light-guiding method realized to irradiate uniform diffused light.



Allocated LEDs are fixed around the periphery of the Diffusion Plate with a transparent fixing material. This unique structure makes more complex to reflect and scatter the light from LEDs and it makes possible to irradiate uniform diffused light from flat light emitting surface.

Lightweight, Thin Design with Low Power Consumption

With a thin design allows installing this light in any place.

Inspecting for defects in rectangular PET bottles

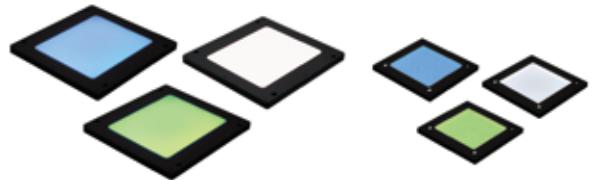


Inspecting the level of a liquid in bottles



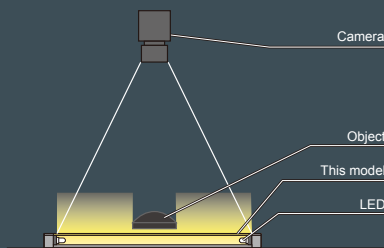
Varied Selection

A wide variety of sizes and colors are available to use for various applications. Models with a mounting panel (P) for installing lights are also available.



Illumination Structure of LFL-100

Light from the LEDs that are arranged around the periphery of the light diffusion plate passes through the plate to produce uniform illumination.



Examples of Flat-light images

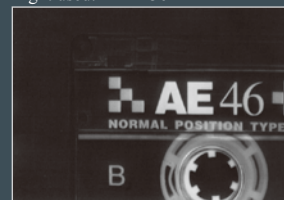
Inspecting printing on tape cassettes

Image as seen with the human eye in normal light.



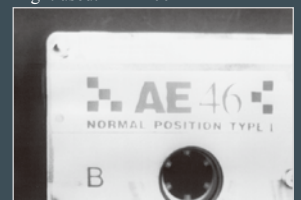
The entire object is evenly illuminated without shadows; however, internal parts are also being imaged and it makes inspection difficult.

Light used: FPR-136



The entire object is evenly illuminated and the printed surface stands out clearly.

Light used: LFL-100



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
LFL	1001674	LFL-612	●	12V/0.3W	—	1
	1004230	LFL-612SW2	○	24V/0.4W		
	1001676	LFL-612-BL	●			
	1001679	LFL-612-GR	●	12V/0.3W	—	2
	1001691	LFL-612P	●			
	1004231	LFL-612SW2-P	○			
	1001677	LFL-612-BL-P	●	24V/0.8W	—	3
	1001680	LFL-612-GR-P	●			
	1001568	LFL-1012	●	12V/0.6W	—	4
	1004225	LFL-1012SW2	○			
	1001570	LFL-1012-BL	●	24V/0.8W	—	5
	1001573	LFL-1012-GR	●			
	1001582	LFL-1012P	●	12V/0.6W	—	6
	1004293	LFL-1012SW2-P	○			
	1001571	LFL-1012-BL-P	●	24V/1.8W	—	7
	1001574	LFL-1012-GR-P	●			
	1001633	LFL-3212	●	12V/2.3W	—	8
	1004232	LFL-3212SW2	○			
	1001634	LFL-3212-BL	●	24V/2.4W	—	9
	1001635	LFL-3212-GR	●			
1001640	LFL-4012	●	12V/2.1W	—	10	
1004228	LFL-4012SW2	○				
1001642	LFL-4012-BL	●	24V/2.7W	—	11	
1001643	LFL-4012-GR	●				

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LFL	1001650	LFL-50	●	12V / 2.4W	—	7
	1004229	LFL-50SW2	○	24V / 3.1W		
	1001654	LFL-50-BL	●	24V / 3.3W		
	1001655	LFL-50-GR	●	12V / 4.2W	L	8
	1001556	LFL-100	●			
	1004226	LFL-100SW2	○			
	1001558	LFL-100-BL	●	24V / 5.7W	—	9
	1001559	LFL-100-GR	●			
	1001597	LFL-180	●	12V / 7.2W	—	10
	1004223	LFL-180SW2	○			
	1001598	LFL-180-BL	●	24V / 9.8W	—	11
	1001599	LFL-180-GR	●			
	1001604	LFL-200	●	12V / 9.0W	L	10
	1004224	LFL-200SW2	○			
	1001607	LFL-200-BL	●	12V / 27W	—	11
	1003050	LFL-200-GR	●			
	1001638	LFL-360	●	24V / 37W	—	11
	1004227	LFL-360SW2	○			
1003567	LFL-360-BL	●				

*The following letters indicate options.

L: Light Control Film

*For further details on these options, refer to page 92.

Dimension Diagrams (Unit: mm)

