

High-brightness line illumination (LLRGC-FRGB Series)

LLRGC-FRGB Series (Old Model : LLRG-RGB)

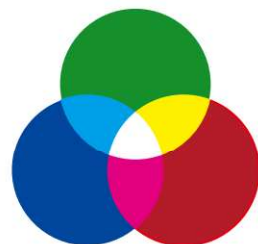
Patented

RGB high-brightness line illumination



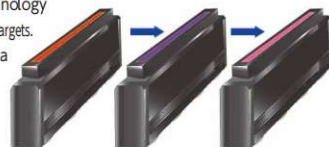
Blending output colors achieves desired emission colors.

Illustration of emission color control



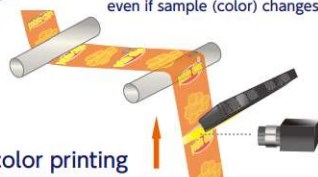
Features

- Full-color, high-brightness line illumination using proprietary optical technology
- Illumination replacement costs can be reduced in the inspection process for different-color targets.
- Best suited for image processing inspection using a monochrome line camera and/or color line camera
- Allows independent light control for R, G, and B wavelengths, and subtle blending of output colors
- Single line illuminator supports inspection processes with a wide variety of colors.



Application example

Printing inspection, steel plate inspection, glass inspection, sheet inspection, metal surface inspection, edge inspection, line sensor light source, visual inspection light source, image processing light source



Controls illumination to provide the best emission color for inspection even if sample (color) changes.

Inspection of color printing

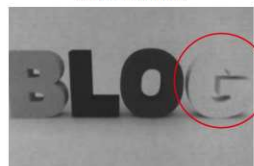
Example of imaging

- Deleting print colors

White illumination



RGB illumination



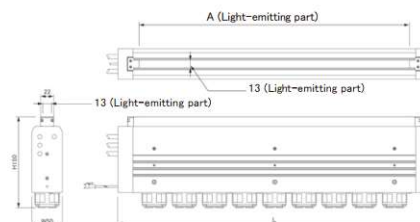
Yellow color can be deleted by controlling the emission color to yellow and capturing an image with a monochrome camera.

Product Specifications

Model	LxWxH (mm)	Light-emitting part A (mm)	Power consumption (white) [W]	Input voltage [V]	Example of applicable power supply
LLRGC150FRGB	220x50x150	150	116	48	LPDCJ1F-48601W-R4
LLRGC300FRGB	370x50x150	300	231	48	LPDCJ1F-48601W-R4
LLRGC450FRGB	520x50x150	450	346	48	LPDCJ1F-48601W-R4
LLRGC600FRGB	670x50x150	600	461	48	LPDCJ1F-48901W-R4
LLRGC750FRGB	820x50x150	750	576	48	LPDCJ1F-48901W-R4

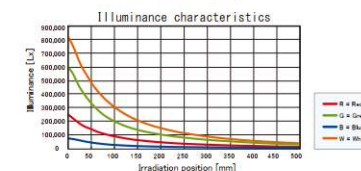
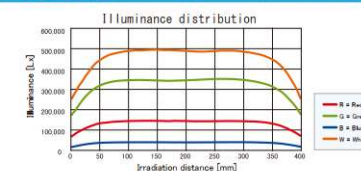
- Available emitter length size : units of 150 mm
- For details about other sizes, contact our sales department.

Outer dimensions



* Product specifications are subject to change without notice.

Data (Typical example : LLRGC600FRGB)



* Graph information (for reference only) does not guarantee product quality.

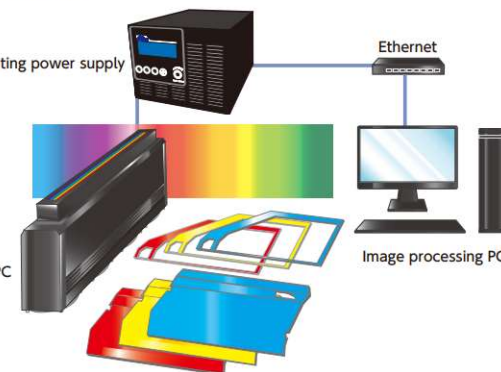
Configuration example

Independent RGB emission control illumination for inspection of automobile exterior parts

Inspection of automobile exterior parts with a wide variety of colors

Lighting power supply

Ethernet



Easy control of emission colors from a PC

Image processing PC