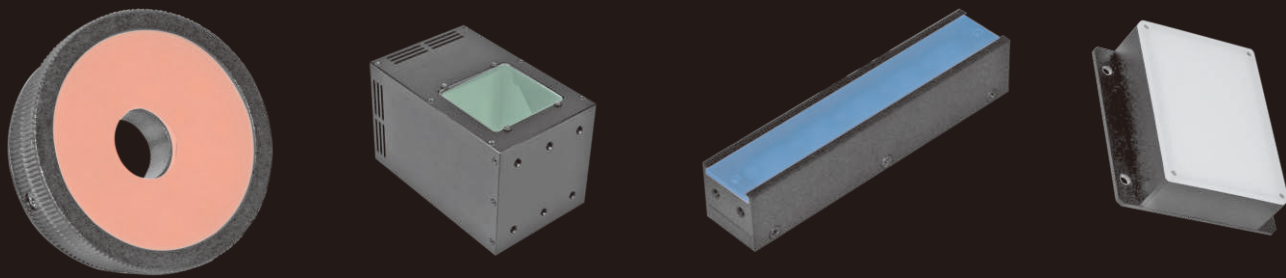
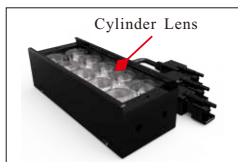
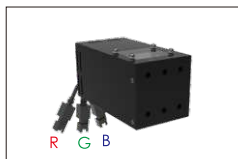
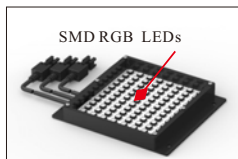


RGB Lights OPT-RGB Series



Product Features

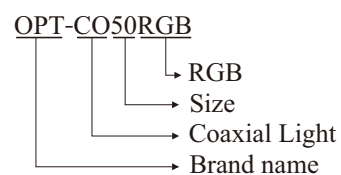
- 1 Using SMD RGB LEDs
- 2 Available to combine into any colors, suitable for inspection of workpiece with different colors
- 3 Using special 45° cylinder lens for RI and LI series RGB lights to provide more uniform and focused light emission
- 4 R, G, B colors can be used separately and also simultaneously



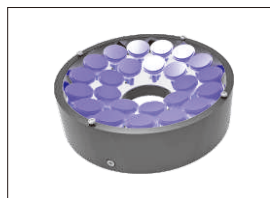
Application Cases

- ◆ Inspection of highly reflective surfaces
- ◆ Chip and silicon wafer inspection
- ◆ Marker localization
- ◆ Bar code recognition
- ◆ Inspection of laser marking characters, 2D code identification

Selection Guide



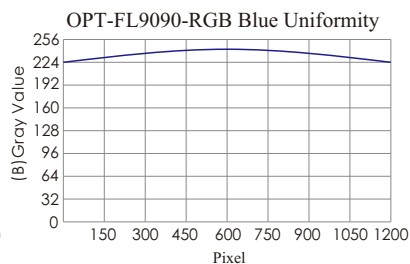
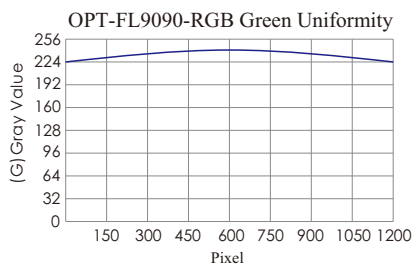
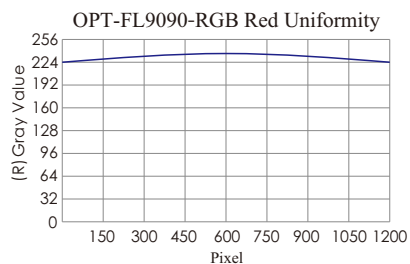
Customization Options



Size



Mounting



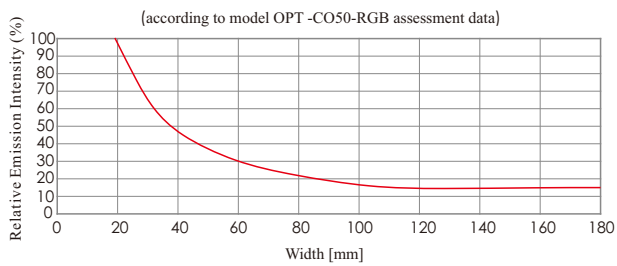
Note: we used a CCD camera for the analysis of the grey values; above drawing shows the average grey values. Above data is just for your reference, not for quality assurance.

Application Example

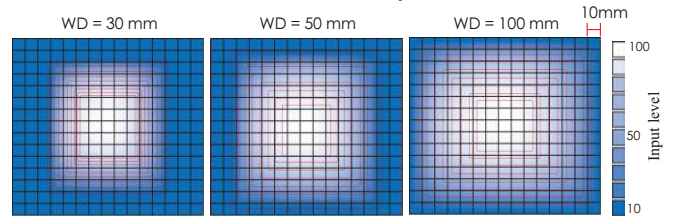
Color filtering and enhancement



Relative Emission Intensity Uniformity Chart



OPT-CO50-RGB Uniformity Chart



Different colors can be freely applied to different workpiece

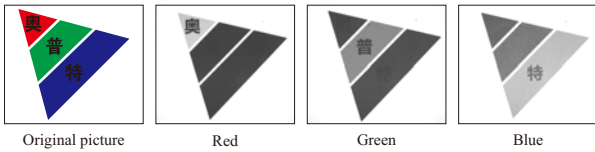
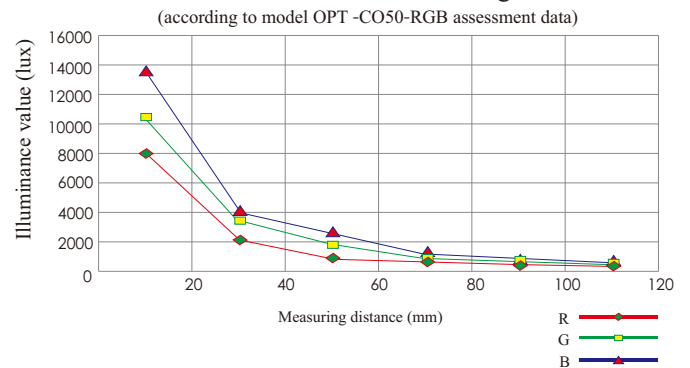
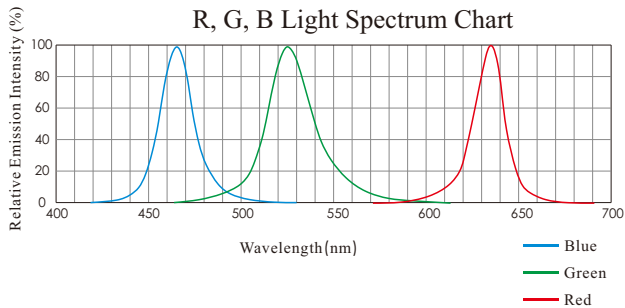


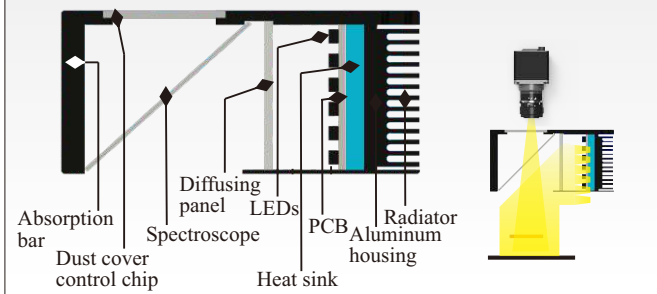
Chart of Illuminance over Working Distance



R, G, B Light Spectrum Chart

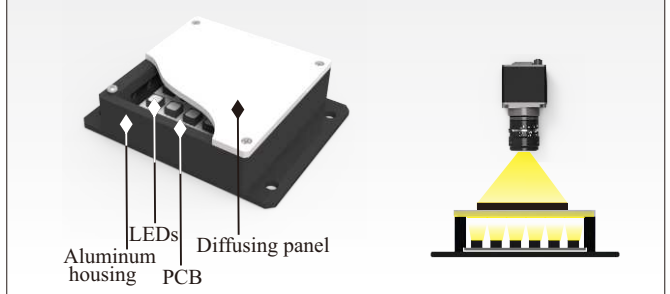


*Note: The structure picture is only for your reference



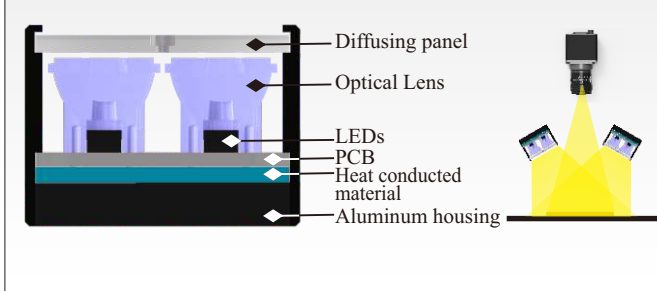
RGB Coaxial Light Structure Display and Working Way

*The structure picture is only for your reference



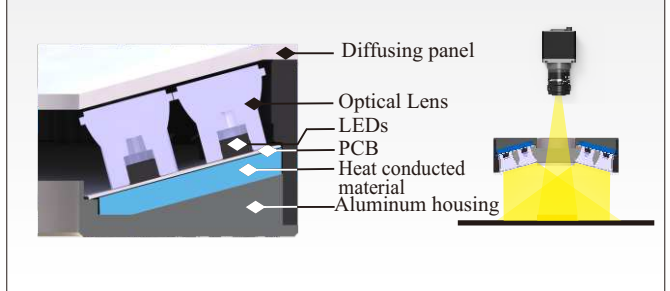
RGB Bottom Back Light Structure Display and Working Way

*The structure picture is only for your reference



RGB Bar Light Structure Display and Working Way

*The structure picture is only for your reference



RGB Ring Light Structure Display and Working Way

Model Table

Series	No.	Model	Output ●	Output ●	Output ●	Controller
RI	1	OPT-RI6215-RGB	24V/0.6W	24V/1.1W	24V/1.1W	OPT-DPA1024E
	2	OPT-RI8515-RGB	24V/1.5W	24V/2.5W	24V/2.7W	OPT-DPA1024E
FL	3	OPT-FL5050-RGB	24V/1.2W	24V/1.9W	24V/2.3W	OPT-DPA1024E
	4	OPT-FL9090-RGB	24V/4.5W	24V/6.7W	24V/7.4W	OPT-DPA1024E
	5	OPT-FL130130-RGB	24V/6.1W	24V/12.0W	24V/14.6W	OPT-DPA1024E

Series	No.	Model	Output ●	Output ●	Output ●	Controller
LI	6	OPT-LI8332-RGB	24V/0.6W	24V/0.9W	24V/1.1W	OPT-DPA1024E
	7	OPT-LI15320-RGB	24V/0.6W	24V/1.1W	24V/1.1W	OPT-DPA1024E
	8	OPT-LI22332-RGB	24V/1.7W	24V/3.1W	24V/3.3W	OPT-DPA1024E
CO	9	OPT-CO50-RGB	24V/1.7W	24V/3.0W	24V/3.3W	OPT-DPA1024E
	10	OPT-CO80-RGB	24V/5.1W	24V/6.6W	24V/7.8W	OPT-DPA1024E

Dimensional Drawings [mm]

