

Spot Light OPT-PI series

High brightness, small dimension, high intensity
Mainly used together with coaxial telecentric lens



High current LEDs , small size, high intensity

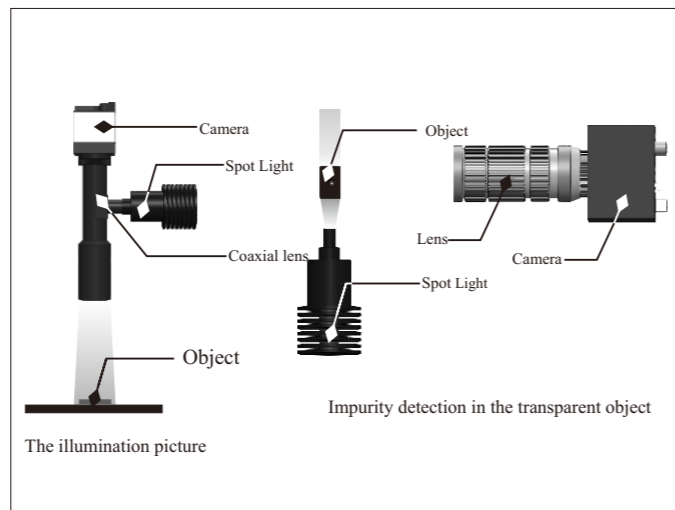
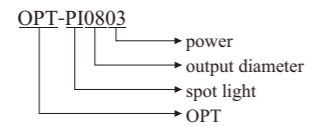
Replacement for the expensive and short-life halogen light sources,suitable for the coaxial lens.

Efficient thermal system for long life cycle

Application Area

- ◆ Mark point location
- ◆ Chips inspection
- ◆ Wafers and LCD glass substrate
- ◆ Image scanning
- ◆ Surface scratches inspection
- ◆ LCD board inspection

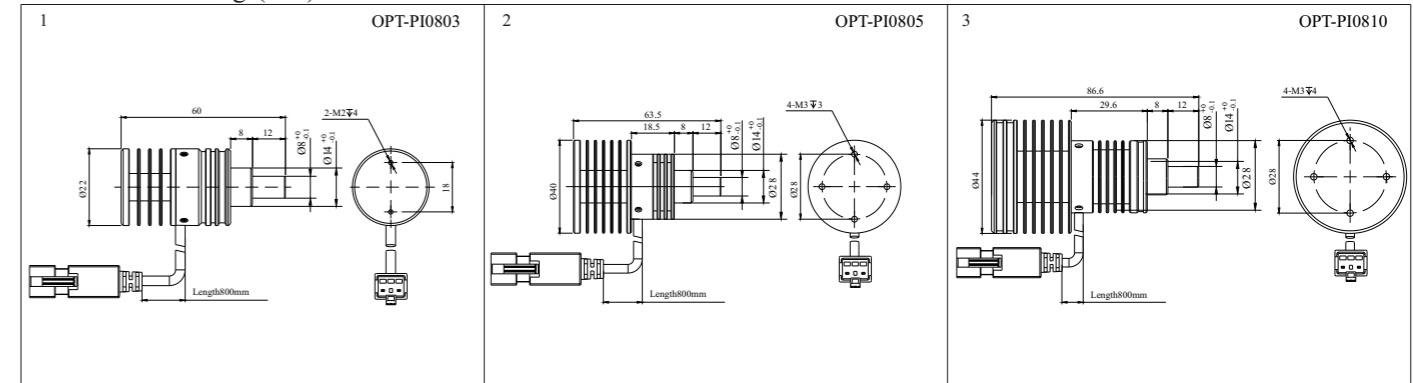
Selection Guide



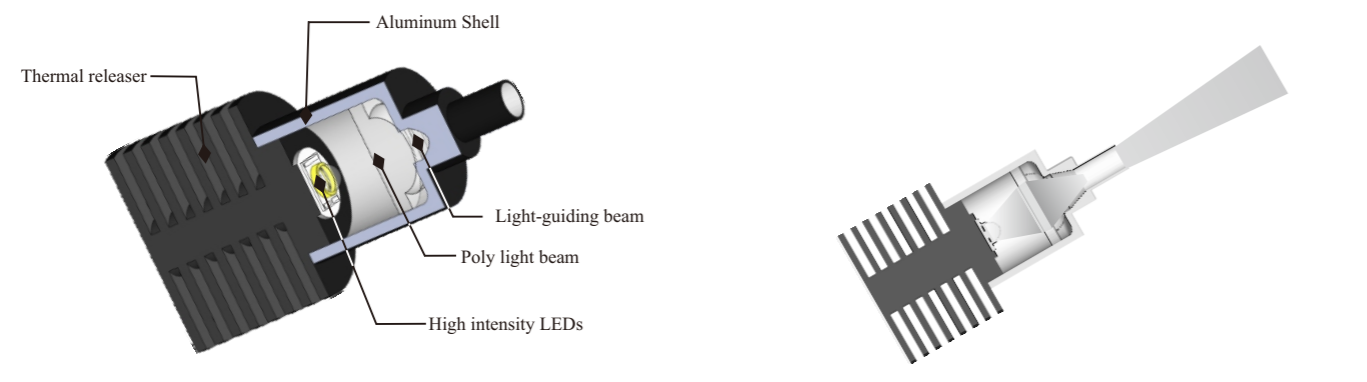
Model Table

Model	Output Power ● ● ●	Output Power ●	Color	Size
OPT-PI0803	5V/3W	5V/3W	● ● ●	1
OPT-PI0805	5V/5W	5V/5W	● ● ●	2
OPT-PI0810	12V/10W	12V/10W	● ● ●	3

Dimensional drawings(mm)

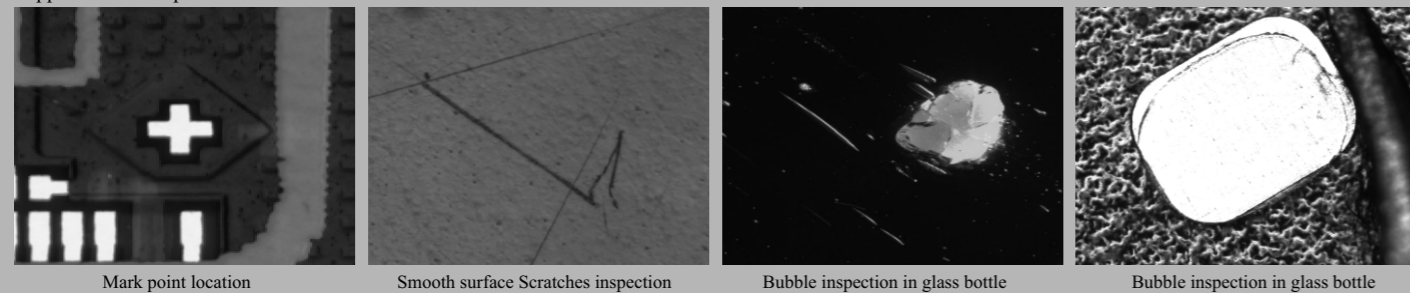


Note: the structure picture in only for your reference



Structure display and working way

Application example



Mark point location

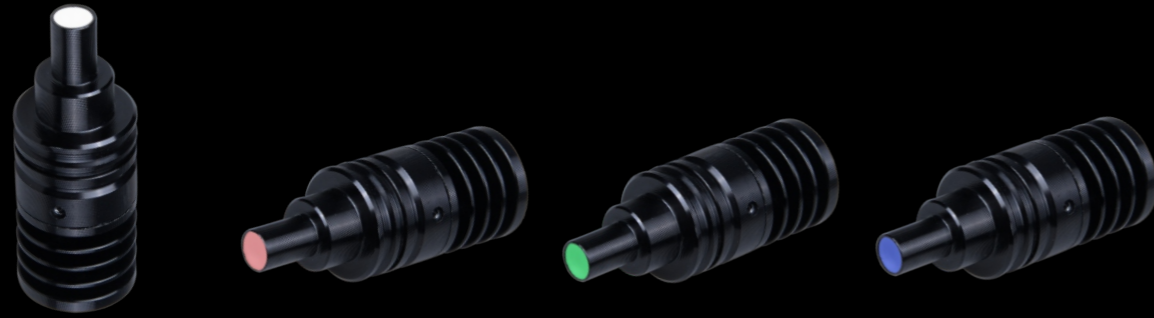
Smooth surface Scratches inspection

Bubble inspection in glass bottle

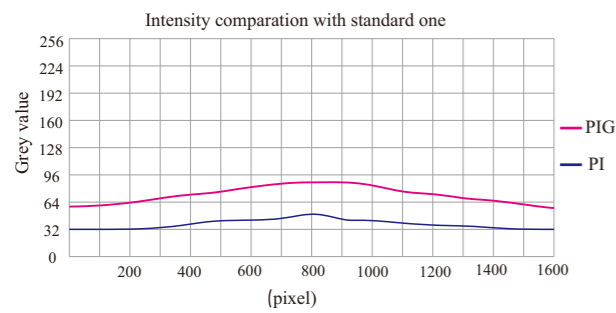
Bubble inspection in glass bottle

High Intensity Spot Light OPT-PIG series New

High intensity LED, intensity 2 times higher than standard one



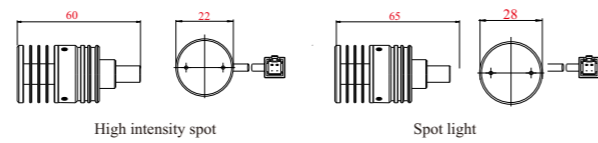
Two times intensity higher than standard one



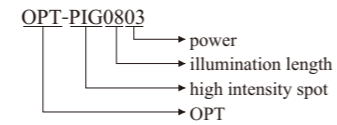
Use CCD camera to grab the picture and analysis the grey value, above drawing is the average grey value

*Above data is just for reference

Smaller dimension than standard one



Selection Guide

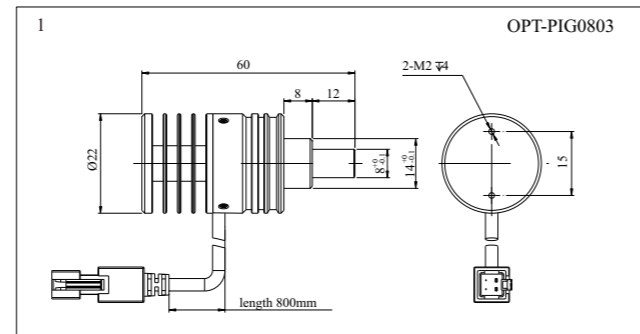


Remark: PIG and PI is used in same application

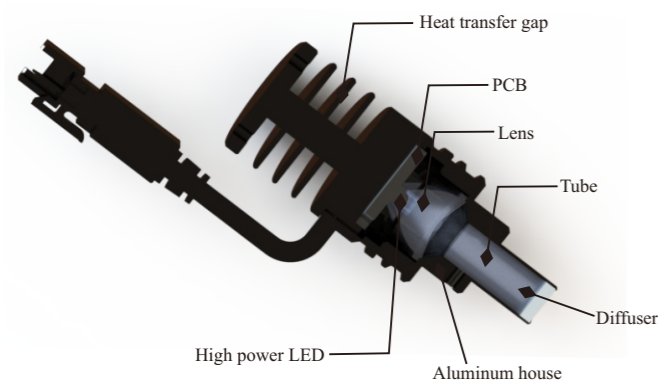
Model Table

Model	Output Power ● ● ●	Output Power ●	Color	Size
OPT-PIG0803	5V/3.5W	5V/3.5W	● ● ●	1

Dimensional drawings(mm)



Note: the structure picture in only for your reference



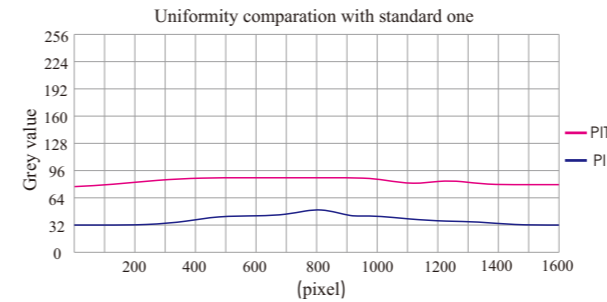
Structure display

High Uniformity Spot Light OPT-PIT series New

Special illumination structure, work together with coaxial telecentric lens with bigger FOV



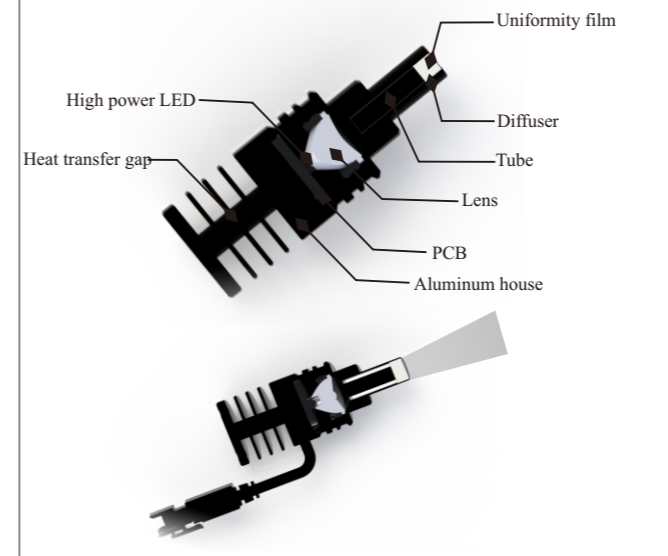
Uniformity is pretty better than standard one



Use CCD camera to grab the picture and analysis the grey value, above drawing is the average grey value

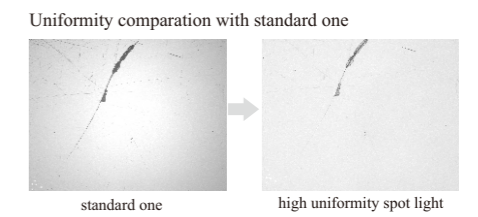
*Above data is just for reference

Note: the structure picture in only for your reference



Structure display and work way

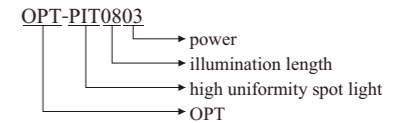
High uniformity spot light with the same dimension with high intensity spot light



Application Area

- ◆ Mark location
- ◆ Chips Inspection
- ◆ Image scan
- ◆ Surface gap inspection
- ◆ LCD surface inspection

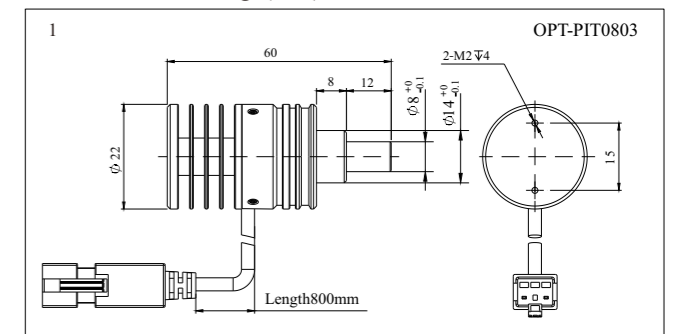
Selection Guide



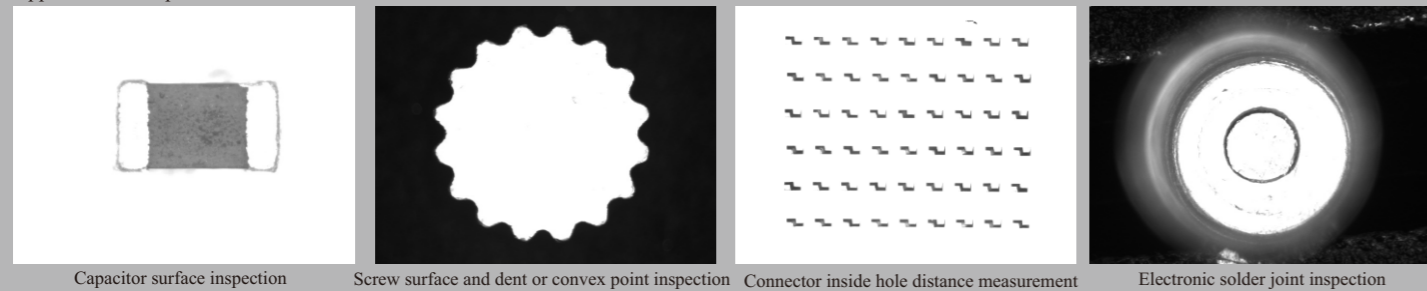
Model Table

Model	Output Power ● ● ●	Output Power ●	Color	Size
OPT-PIT0803	5V/3W	5V/3W	● ● ●	1

Dimensional drawings(mm)



Application example



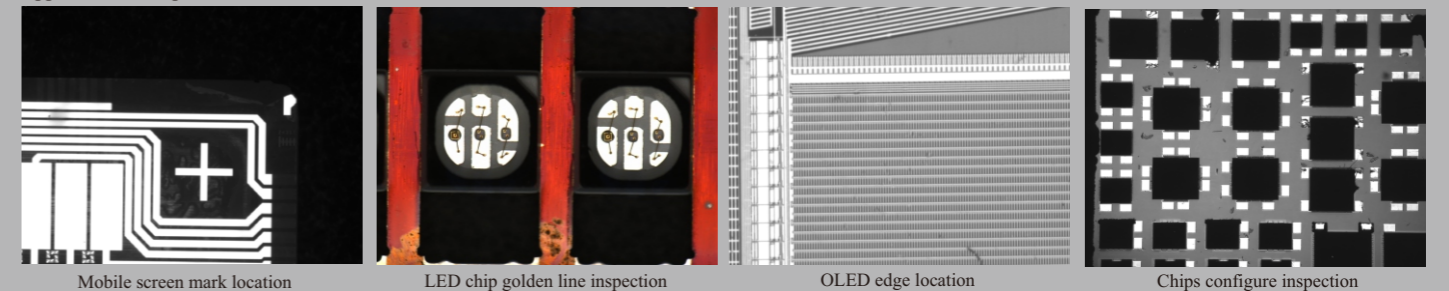
Capacitor surface inspection

Screw surface and dent or convex point inspection

Connector inside hole distance measurement

Electronic solder joint inspection

Application example



Mobile screen mark location

LED chip golden line inspection

OLED edge location

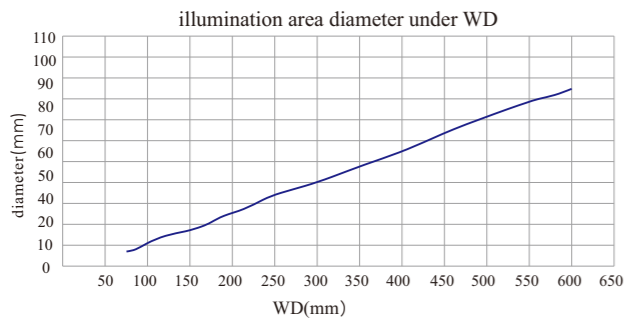
Chips configure inspection

Collimated Spot Light OPT-PIPL series New

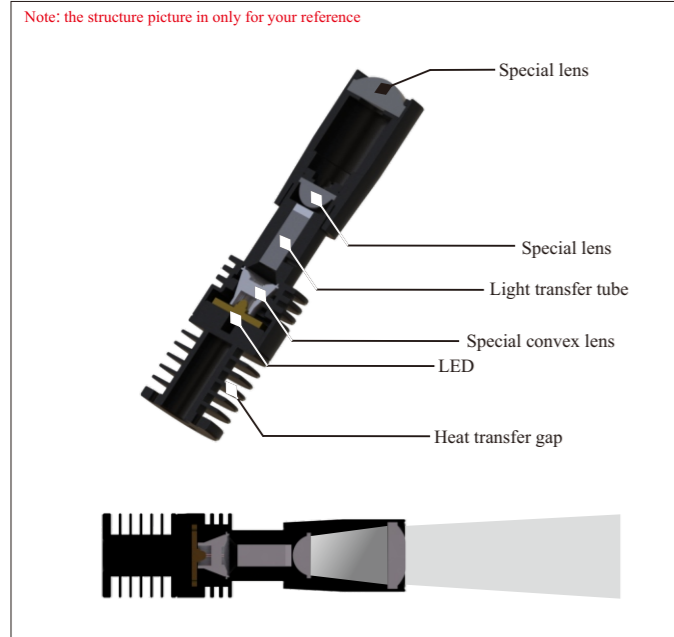
Good parallel direction



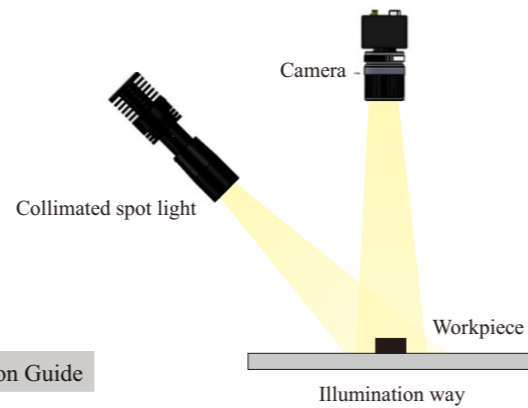
WD is 80-250mm, illumination area can be adjusted



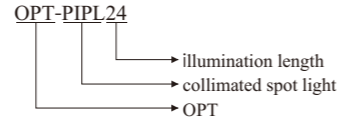
*Above data is just for reference



Structure display and working



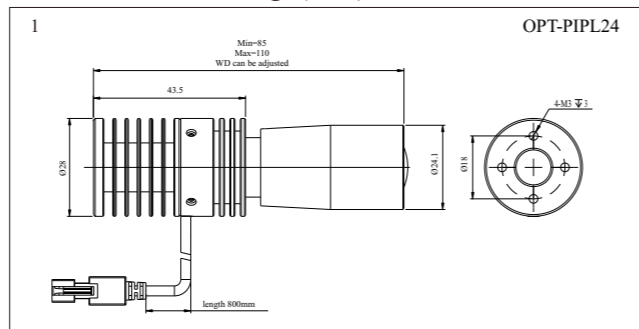
Selection Guide



Model Table

Model	Output Power ● ● ●	Output Power ● ● ●	Color	Size
OPT-PIPL24	5V/5W	5V/5W	● ● ●	1

Dimensional drawings(mm)



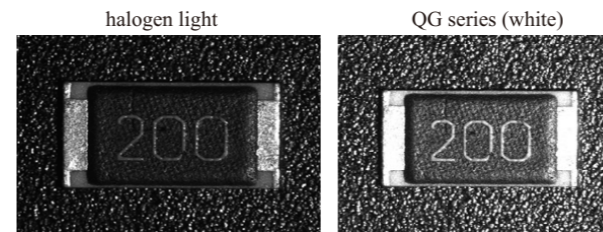
Fiber Spot Light OPT-QG series

High power fiber spot light, could be the replacement of halogen light under the circumstance of unchanged the original equipment



Take the German-original high intensity LED chips, 2 times longer life time than the halogen light

25W power cost, the brightness equivalent to 100 W halogen light

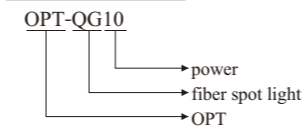


halogen light as intensity is not enough caused the image result is not good, while QG series brightness can get brightness image.

Application Area

- ◆ Be the replacement in halogen light applied area
- ◆ Illumination in the medical field
- ◆ Semiconductor equipment
- ◆ Work with microscope
- ◆ General industry illumination

Selection Guide



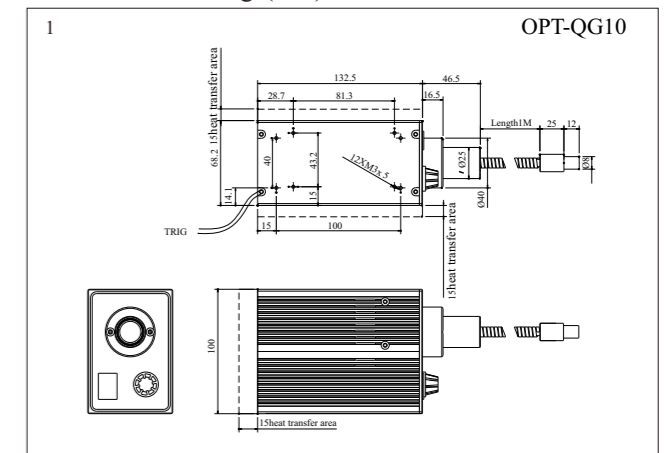
Integrated chassis, with the 100-240V power installed



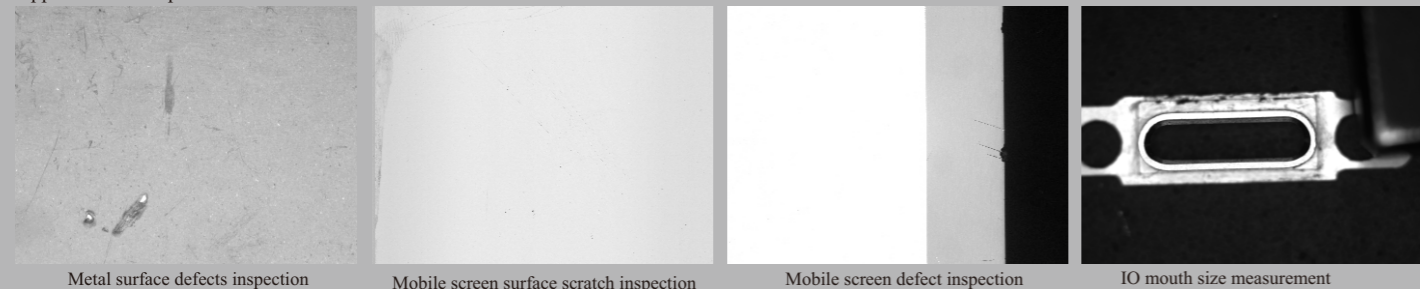
Model Table

Model	Output Power	Color	Size
OPT-QG10	24V/10W	● ● ●	1

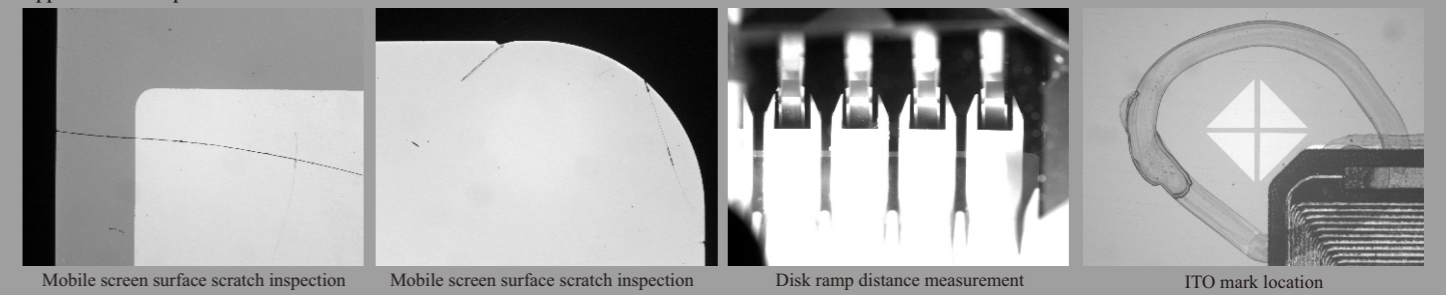
Dimensional drawings(mm)



Application example



Application example



Parallel Spot Light OPT-PL Type

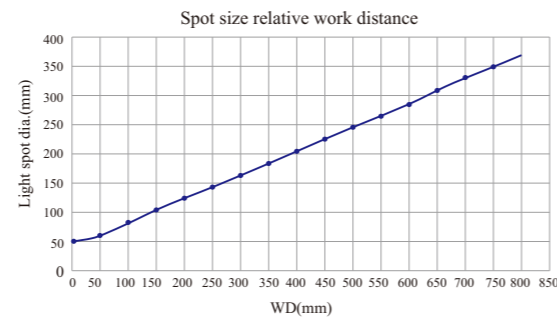
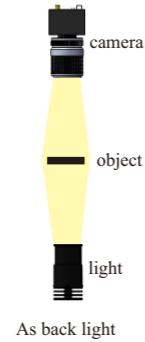
The Parallel Spot Light
Can diverge the light even at long distance



High intensity LED arrays combined with special heat releaser, to ensure high brightness

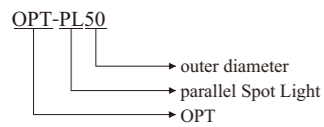
Use lens and diffuser to make the light concentrate and uniformity. The light has good parallel direction it can keep long work distance illumination.
As the light is very concentrate, so it is also considered as back light in some application

As back light or long work distance illumination








*Above data is just for reference, not for quality insurance

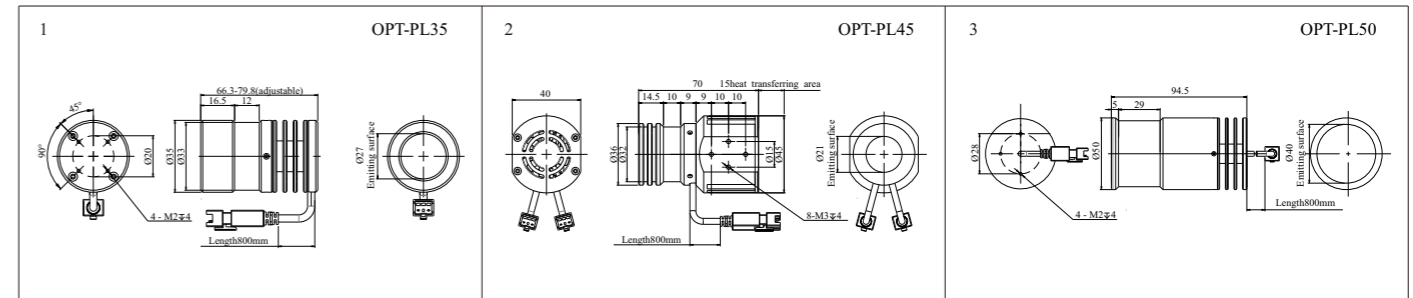
Selection Guide



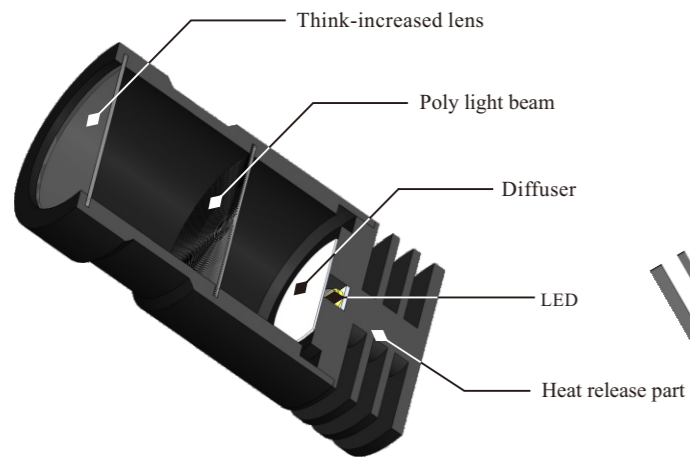
Model Table

Model	Output Power 	Output Power 	Color	Size
OPT-PL35	5V/3W	5V/3W		1
OPT-PL45	5V/3W	5V/3W		2
OPT-PL50	5V/3W	5V/3W		3

Dimensional drawings(mm)

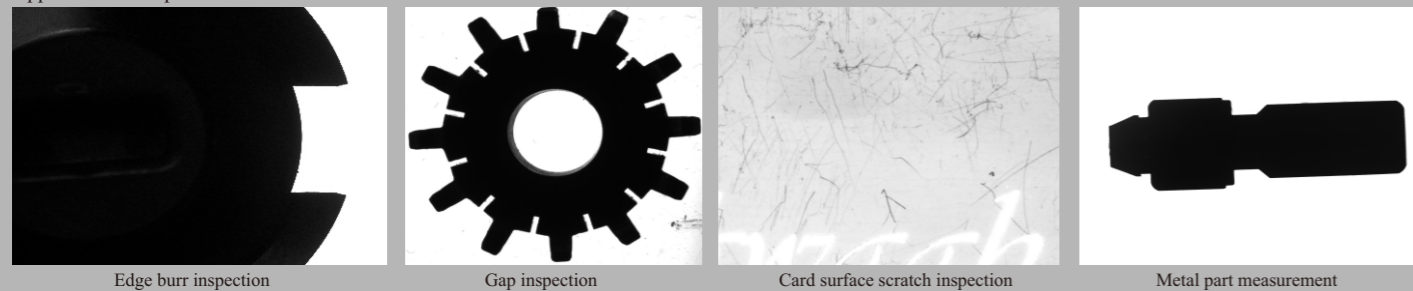


Note: The structure picture is only for your reference



Structure display and working way

Application example



Edge burr inspection

Gap inspection

Card surface scratch inspection

Metal part measurement