

**3A Mechatronic**  
丞基技研股份有限公司

Tel:886-2-2999-7331 Fax:886-2-2278-7113  
新北市三重區重新路五段609巷12號7樓之7  
7F-7, No.12, Lane 609, Chongxin Rd., Sec.5, Sanchong District, New Taipei City 241, TAIWAN  
<https://www.3amled.com>  
大中華區: [sales-s@3am.com.tw](mailto:sales-s@3am.com.tw)  
海外市場: [fmarket@3am.com.tw](mailto:fmarket@3am.com.tw)

2026-2027



2026

CONSTANTLY INNOVATE WITH  
IMPROVEMENT FOR NEW GENERATION OF  
LED LIGHTING SYSTEMS



Taiwantrade  
Supplier  
Business  
Information  
Verification  
[www.tuv.com](http://www.tuv.com)  
ID: 0800616247



Member of UK Reg www.ukreg.org.uk Ltd  
9187

**3A Mechatronic**

# 3AM Management Policy



## 1. Integrity

Integrity is the foundation of our business. This allows us to build long-term relationships with our partners and customers. Once we make a commitment, we fully devote ourselves to meeting that commitment.

## 2. Customer Orientation

We always focus on machine vision lights and dimmers. Our greatest goal is to provide our customers with the high-quality products, first-class after-sales services, and competitive prices.

## 3. Cooperation

We help our customers achieve success and profit by providing instant and professional solutions. Instead of taking credit for the achievements, we are pleased to share the fruits with our partners and employees.

## 4. Sustainable Development

We treat others with respect and encourage innovation in our business. Short-term operating results are very important to us. We also value medium-term and long-term strategic plans since these are the keys to success.

# Company Background

Established formally in 2002, 3AM has positioned itself as a leading entity with the trademark "3AM." Boasting a professional R&D team and dedicated production line, the company specializes in the research and production of LED light sources, dimmers, and related products, holding multiple patents as a testament to its commitment to technological innovation.

We are dedicated to continual enhancements in product quality, holding esteemed CE approval and complying with RoHS standards. Our scope extends beyond LED light production; we actively engage with clients to integrate components into cutting-edge machine vision systems.

With a wealth of experience in LED applications, we comprehend clients' needs and offer effective solutions. Alongside our standardized products, we provide ODM services, catering to unique client requirements. 3AM delivers prompt, comprehensive technical support. We look forward to forging a lasting partnership with you.



# Efficient and Accurate Service

# 3AM

3AM provides a free sample service to shorten the choosing lighting period to solve your questions. Every tested object has different characteristics; it is why 3AM invents various lighting sources to meet different goals to make the inspection precise and accurate.

Therefore, we are pleased to offer the technical support and free lighting with high quality loan service for worldwide customers. All the models are available and free before purchasing.

Quality is one of main important targets. We pursuit the highest quality advancement constantly. For our worldwide customers, we provide guarantee on all our products for luminosity in one year warranty with acceptance of the brand repair services.



## Contents

### Direct Lighting

#### 1 Ring Lights (0°,15°,30°) **NEW**

Ring Lights in 3 degrees, 0°, 15° & 30°



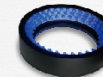
#### 3 Ring Lights (15°) **NEW**

With HI-POWER LED, its illuminance is more than 4 times traditional lighting.



#### 5 Low Angle Ring Lights (60°&90°) **NEW**

Ring Lights in 60° & 90°



#### 8 Bar Lights & Oblique Bar lights

Able to adjust the direction and angle of illumination freely.



#### 12 High Intensity Bar Light

Bar lights in 15° & 60°, distance reaches 1500-3000 mm.



### Indirect Lighting

#### 14 Small Dome Lights

Suitable for small volume, concave-convex and irregularly shaped object.



#### 16 360° Omni-Directional Dome Lights

Provides 360° bright illumination; paired with a diffusion cover, it eliminates star-like highlights on reflective objects.



#### 18 Shadowless Lights

Provide better uniformity than normal ring lights.



#### 20 Shadowless Ring Lights **NEW**

Suitable for highly reflective and curve objects.



#### 22 Coaxial Lights

Coaxial with the camera, with high-precision coated optical glass.



#### 25 High Directivity Coaxial Lights

With high directivity optical film to increases the luminance greatly.



# Contents

## Indirect Lighting

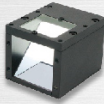
### 27 High Directivity and Intensity Coaxial Lights

With HI-POWER LED, its illuminance is more than 3 times of coaxial light.



### 29 Angle Coaxial Lights

Outlet is changed from vertical to horizontal direction.



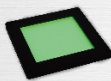
### 30 Flat Dome Lights

With wide FOV to maximize the effect of hemispherical light.



### 31 High Intensity Flat Dome Lights

With HI-POWER LED, its illuminance is more than 5 times of flat dome light.



### 33 Spot Lights **NEW**

Suitable for small volume object in short WD.



### 35 RGB Spot Lights **NEW**

Able to mix and independently control RGB colors.



## Lens

### 38 Telecentric Lens

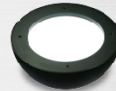
Various magnification and WD options, close to zero distortion.



## Indirect Lighting

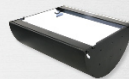
### 40 Large Dome Lights

To diffuse the light and provide a clearer edge of objects.



### 43 Tunnel-Type Lights **NEW**

Delivers evenly diffused light for clear edge imaging of reflective, uneven-shaped objects.



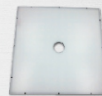
### 44 Low Angle Square Lights

To illuminate the edge contours of objects at the corners.



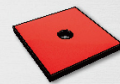
### 46 Flat Square Lights

Suitable for a wide range or large size of objects.



### 47 High Directivity Square Lights

High directivity light makes the contour of object sharper.



## Indirect Lighting

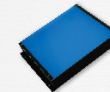
### 50 Backlights

Thin and flat design, in 30mm x 30mm & 45mm x 45mm module.



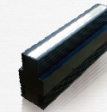
### 55 High Directivity Backlights

High directivity optical film avoids gray scale and misjudgement.



### 57 Line Lights **NEW**

For line scan, applied in wafers, metal surface, roll surfaces.



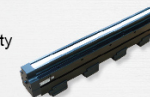
### 59 Air-Cooling High Intensity Line Light

Air-cooled heat dissipation, its illuminance is 2.5 times than High Intensity Line Light.



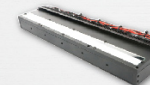
### 61 Fan-Cooling High Intensity Line Lights

Fan-cooled, ultra-high intensity (1 million lux), 2.5x brighter than previous models.



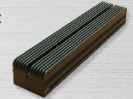
### 63 Line Coaxial Lights

Light and camera coaxially irradiate the diffused light uniformly.



### 65 Tunnel-Type High Intensity Line Lights **NEW**

Passive cooling with even light diffusion, central illumination over 270,000 lux.



### 67 Fan-Cooling, Tunnel-Type Line Lights **NEW**

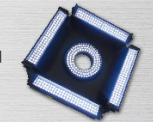
Air-cooled design provides even diffusion for clearer imaging of reflective and uneven objects.



## Special Lighting

### 68 Robotic Lights

Combination of a ring light and oblique bar lights.



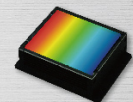
### 69 Multi-Angle Ring Lights

Provide three angles, 30°, 60°, 90° in 8 rings of LEDs.



### 70 Triple Color Lights

Control RGB colors independently in ring, coaxial light, and backlight.



### 71 Eight-Color Lights

Offers eight controllable spectral bands with low-angle, evenly diffused lighting.



# Contents

## Special Lighting

### 73 Ultraviolet (UV) Lights **NEW**

To stimulates the fluorescence reaction of material to detect the appearances defects.



### 75 Infrared Lights (Over 1000nm)

Two wavelengths available, 1200 and 1450nm, in ring light and backlight.



### 76 Microscopes Lights

Control the light in 4 separate zones.



### 77 Four-Segment Ring Illumination

Suitable for scratches detection, presenting a contrasting image.



### 78 LED UV Irradiation Curing Device

Small and lightweight design, can instantly emit high-energy UV light.



### 80 LED UV Irradiation Bar Curing Device

In 40mm x 20mm module production without radiant heat.



## Special Lighting

### 82 LED UV Irradiation Area Curing Device

In 100mm x 100mm module, customization available.



### 84 LED Lights Box

To replace the halogen lamps and able to connect with fiber optics.



### 86 Straight Round Lights **NEW**

Provides focused direct illumination and can be installed in various environments.



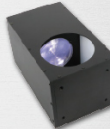
### 87 Parallel Lights **NEW**

To illuminate long-distance and highly parallel light to achieve high precision.



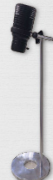
### 90 Parallel Coaxial Lights

Suitable for high precision dimensional measurement.



### 91 Wafer Lighting Source **NEW**

420+ kLux output at 310mm WD provides a 55mm spot for clear crystal defect inspection.



## Lens

### 92 Telecentric Lens for Four-Side Image at 90°

Captures four consistent side images at 90° intervals for full object inspection.



## Power Supply

### 93 Module Constant Voltage Power Supply

Adjust light by knob, easy to install on the track of power panel.



### 94 PWM Power Supply

PWM pulse output, three external control methods, I/O, RS232, Ethernet.



### 97 Current Power Supply **NEW**

Subtle knob to select 512 settings, constant current, and auto-feedback output.



### 100 LED Strobe Power Dimmer **NEW**

By overdriving, the illuminance can be up to several times of normal lighting.



### 101 Power Supply for LED Lights

Recommended dimmer for each light source

## Others

### 104 Optional Accessories

Information for diffuser plates, cable, adapters, and filters.



### 109 CE & RoHS Certificate

### 110 ISO Certificate

### 111 Trademark Certificate

### 112 3AM Worldwide

### 114 Telecentric Lens & CCTV Lens

**NEW** Ring Lights ( 0°,15°,30° )



**Outline**

Different angles solve uneven shape and dark corners problems.

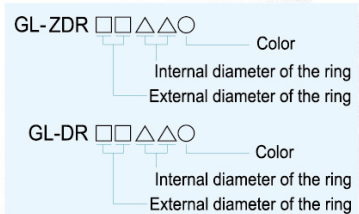
**Feature**

1. Lights are designed in 0°, 15°, and 30°.
2. Clear image recognition for position change and uneven surfaces.
3. Diffusion plates are available. (P91)

**Major applications**

1. Positioning for substrates and printed boards, inspection for chip components
2. Liquid crystal adjustment, plastic container inspection
3. IC impress inspection, such as label inspector

**Model explanation**



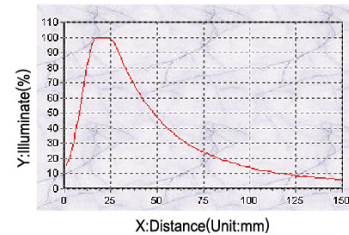
**Available Models**

Model	Angle	Color	Power Consumption	Weight (g)	Dimension
GL-ZDR3210R-24	15°	●	24V/0.96W		
GL-ZDR3210W/B/G-24	15°	○●●	24V/1.44W	24	1
GL-ZDR3210IR-24	15°	●	24V/0.96W		
GL-ZDR4218R-24	0°	●	24V/1.44W		
GL-ZDR4218W/B/G-24	0°	○●●	24V/2.4W	37	2
GL-ZDR4218IR-24	0°	●	24V/1.44W		
<b>NEW</b> GL-ZDR5025R-24	0°	●	24V/1.92W		
<b>NEW</b> GL-ZDR5025W/G/B-24	0°	○●●	24V/2.88W	46	3
<b>NEW</b> GL-ZDR5025IR-24	0°	●	24V/1.92W		
GL-DR3210R-24	30°	●	24V/1.0W		
GL-DR3210W/B/G-24	30°	○●●	24V/1.5W	24	4
GL-DR3210IR-24	30°	●	24V/1.0W		
GL-DR4218R-24	30°	●	24V/1.5W		
GL-DR4218W/B/G-24	30°	○●●	24V/2.4W	36	5
GL-DR4218IR-24	30°	●	24V/1.5W		
GL-DR5028R-24	30°	●	24V/2.0W		
GL-DR5028W/B/G-24	30°	○●●	24V/3.4W	45	6
GL-DR5028IR-24	30°	●	24V/2.0W		
GL-DR5028IR940-24	30°	●	24V/1.92W		
GL-DR6736R-24	30°	●	24V/3.9W		
GL-DR6736W/B/G-24	30°	○●●	24V/5.8W	83	7
GL-DR6736IR-24	30°	●	24V/3.9W		
GL-DR9050R-24	30°	●	24V/7.7W		
GL-DR9050W/B/G-24	30°	○●●	24V/11.6W	138	8
GL-DR9050IR-24	30°	●	24V/7.7W		
GL-DR12060R-24	30°	●	24V/17.8W		
GL-DR12060W/B/G-24	30°	○●●	24V/26.9W	418	9
GL-DR12060IR-24	30°	●	24V/17.8W		

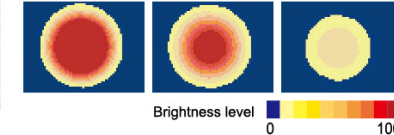
Model	Angle	Color	Power Consumption	Weight (g)	Dimension
GL-DR16595W-24	30°	○	24V/24.48W	616	10
GL-DR7035R-24	0°	●	24V/4.4W		
GL-DR7035W/B/G-24	0°	○●●	24V/6.8W	97	11
GL-DR7035IR-24	0°	●	24V/4.4W		
GL-DR9550R-24	0°	●	24V/5.38W		
GL-DR9550W/B/G-24	0°	○●●	24V/8.06W	165	12
GL-DR9550IR-24	0°	●	24V/5.38W		

**Luminous intensity distribution characteristics**

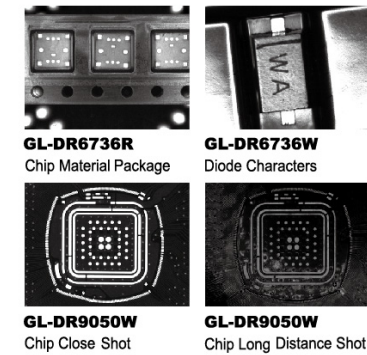
GL-DR6736R Graph



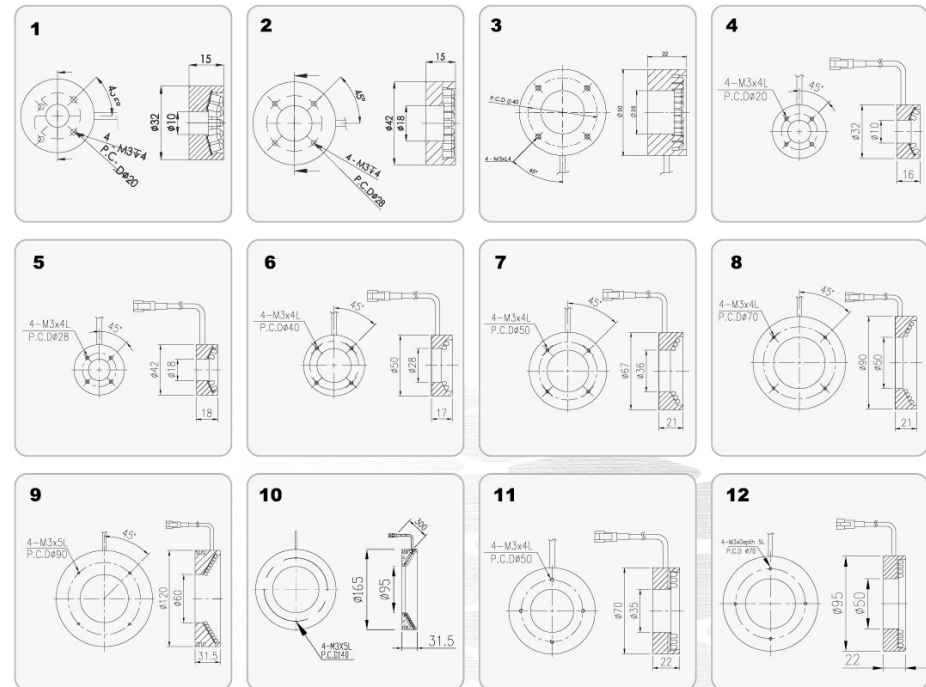
Illuminate Height:5CM,10CM,15CM



**Imaging examples**



**Dimensional Diagrams(mm)**



**NEW** Ring Lights ( 15° )



**Outline**

High Intensity Light, Vibration resistant, Impact Resistant, and Special Lens. Illumination is 4 times more than general ring lights.

**Feature**

- 1. Lights are designed in 15°.
- 2. Far working distance can be applied.

**Major applications**

- 1. Positioning for substrates and printed boards, inspection for chip components
- 2. Liquid crystal adjustment, plastic container inspection
- 3. IC impress inspection

**Model explanation**

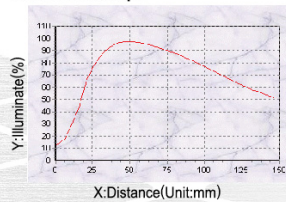
- GL-DRC □□△△○
- — External diameter of the ring
  - △ — Internal diameter of the ring
  - — Color

**Available Models**

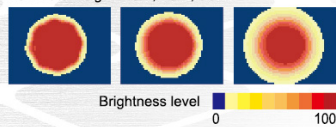
Model	Color	Power Consumption	Weight (g)	Dimension
GL-DRC5618R	●	12V/2.73W	130	1
GL-DRC5618W/B/G	○ ● ●	12V/6.33W		
GL-DRC7035R	●	12V/5.74W	212	2
GL-DRC7035W/B/G	○ ● ●	12V/9.5W		
GL-DRC9050R	●	12V/5.74W	324	3
GL-DRC9050W/B/G	○ ● ●	12V/12.67W		
<b>NEW</b> GL-DRC9050W/B/G-24	○ ● ●	24V/15.36W	621	4
GL-DRC12060R	●	12V/8.61W		
GL-DRC12060W/B/G	○ ● ●	12V/15.84W	148	5
GL-DRC12060W/B/G-24	○ ● ●	24V/21.43W		
GL-HDRC7035W/B/G-24	○ ● ●	24V/9.5W		

**Luminous intensity distribution characteristics**

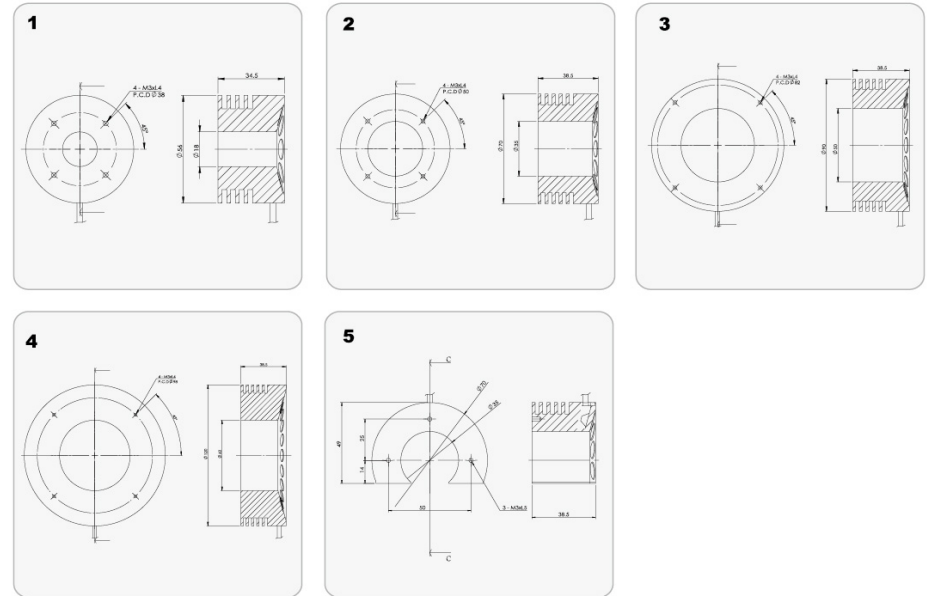
GL-DRC7035 Graph



Illuminate Height: 1CM, 2CM, 5CM



**Dimensional Diagrams(mm)**



# NEW Low Angle Ring Lights (60°&90°)



## Outline

Different angles to solve object's uneven shape and dark corners problems.

## Feature

1. Lights are designed in 60° and 90°.
2. Clear image recognition specially for uneven surfaces, scratches, and laser engraving.
3. Diffusion plates are available. (P91)

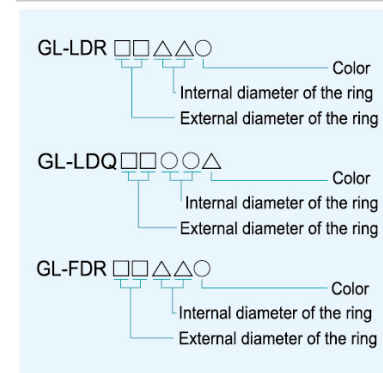
## Major applications

1. BGA solder ball position, shape and area in inspection.
2. Inspection of wafers or glass substrates for scratches and stain.
3. Reading laser engraving
4. Edge detection and defect inspection

## Available Models

Model	Angle	Color	Power Consumption	Weight (g)	Dimension
GL-LDR4822R-24	60°	●	24V/1.9W		
GL-LDR4822W/B/G-24	60°	○●●	24V/2.8W	47	1
GL-LDR4822IR-24	60°	●	24V/1.9W		
GL-LDR5028IR-24	60°	●	24V/1.92W	52	2
GL-LDR7448R-24	60°	●	24V/3.9W		
GL-LDR7448W/B/G-24	60°	○●●	24V/5.8W	81	3
GL-LDR7448IR-24	60°	●	24V/3.9W		
NEW GL-LDR2-7448IR-24	60°	●	24V/4.7W	139	4
GL-LDR10068R-24	60°	●	24V/7.2W		
GL-LDR10068W/B/G-24	60°	○●●	24V/10.6W	140	5
GL-LDR10068IR-24	60°	●	24V/7.2W		
GL-LDR13296R-24	60°	●	24V/10.6W		
GL-LDR13296W/B/G-24	60°	○●●	24V/15.9W	177	6
GL-LDR13296IR-24	60°	●	24V/10.6W		
GL-LDR170134R-24	60°	●	24V/13.5W		
GL-LDR170134W/B/G-24	60°	○●●	24V/20.2W	231	7
GL-LDR170134IR-24	60°	●	24V/13.5W		
GL-LDQ7040R-24	60°	●	24V/9.21W		
GL-LDQ7040W/B/G-24	60°	○●●	24V/11.2W	204	8
GL-FDR7546R-24	90°	●	24V/2.0W		
GL-FDR7546W/B/G-24	90°	○●●	24V/2.9W	55	9
GL-FDR7546IR-24	90°	●	24V/2.0W		
GL-FDR8454R-24	90°	●	24V/2.0W		
GL-FDR8454W/B/G-24	90°	○●●	24V/2.9W	65	10
GL-FDR8454IR-24	90°	●	24V/2.0W		

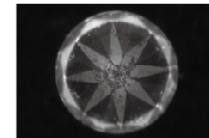
## Model explanation



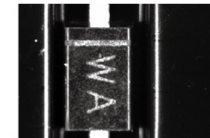
## Available Models

Model	Angle	Color	Power Consumption	Weight (g)	Dimension
GL-FDR12292R-24	90°	●	24V/2.9W		
GL-FDR12292W/B/G-24	90°	○●●	24V/4.4W	95	11
GL-FDR12292IR-24	90°	●	24V/2.9W		
GL-FDR156108R-24	90°	●	24V/3.9W		
GL-FDR156108W/B/G-24	90°	○●●	24V/5.8W	195	12
GL-FDR156108IR-24	90°	●	24V/3.9W		
NEW GL-FDR235202R-24	90°	●	24V/5.76W	190	13

## Imaging examples



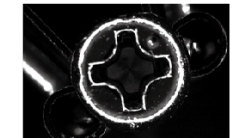
**GL-LDR7448W**  
Diamond Cutting



**GL-LDR7448W**  
Diode Characters

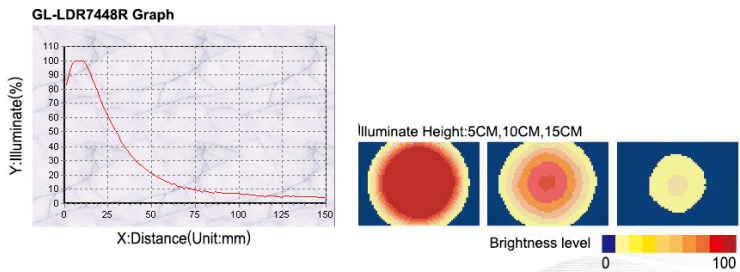


**GL-FDR7546W**  
PCB Edge Abrade



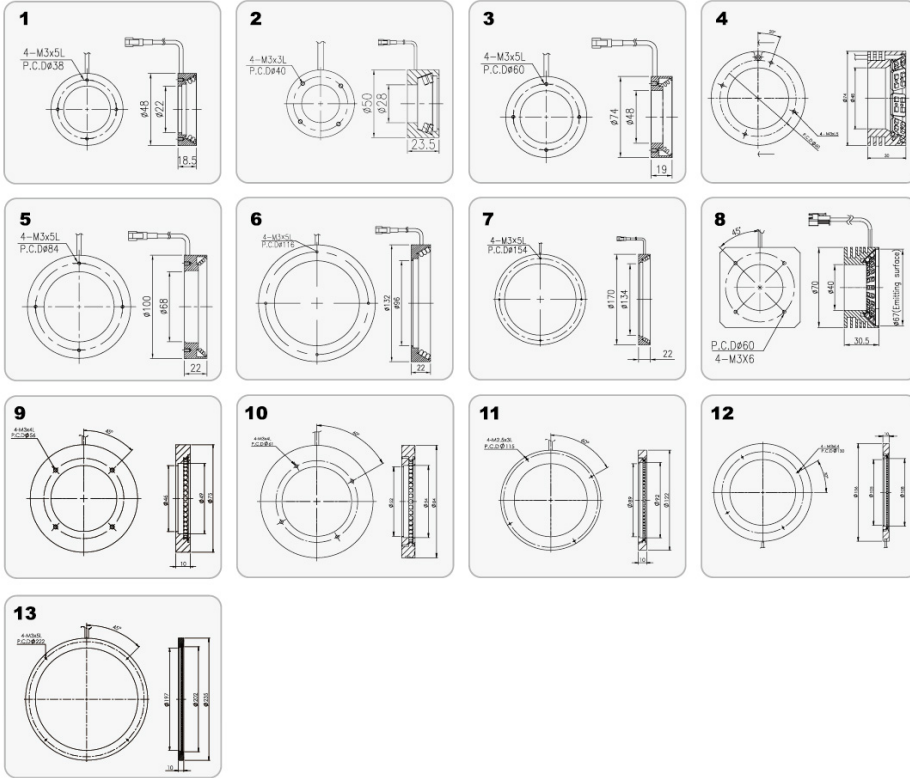
**GL-FDR156108R**  
Screw Edge

## Luminous intensity distribution characteristics



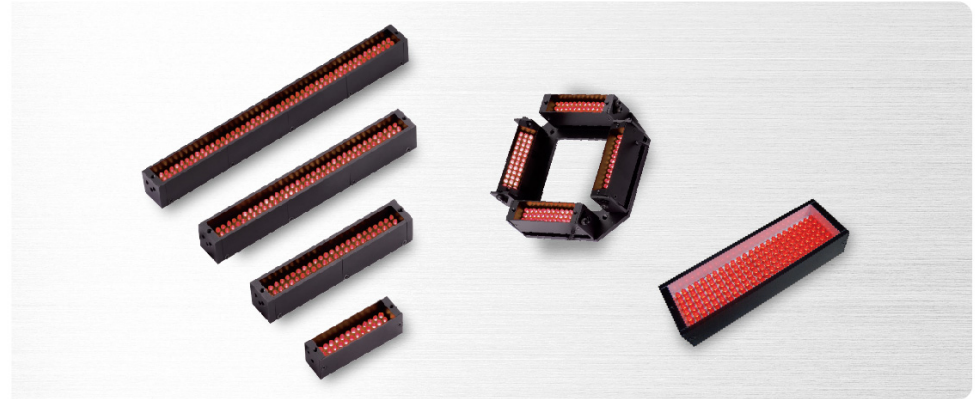


## Dimensional Diagrams(mm)



## Direct Lighting

# Bar Lights & Oblique Bar lights



### Outline

Light direction and angle are adjustable.  
Suitable for large area lighting.

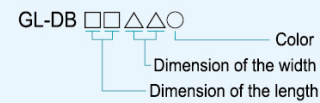
### Feature

1. Light can be customized. The largest standard model is 510mm.
2. Its shape is changeable to rectangular or square.
3. Diffusion plates are available. (P91)

### Major applications

1. Inspection for LED defect
2. Identify for multiple shapes
3. Fabrication substrates crack inspection, metal board surface inspection
4. Identify size measurement and shape for electronic parts

### Model explanation



### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DB3010R-24	●	24V/0.48W		
GL-DB3010W/B/G-24	○ ● ●	24V/0.72W	25	1
GL-DB3010R-24	●	24V/0.48W		
GL-DB3010R-DP-24	●	24V/0.48W		
GL-DB3010W/B/G-DP-24	○ ● ●	24V/0.72W	26	2
GL-DB3010R-DP-24	●	24V/0.48W		
GL-DB4520W/B/G-24	○ ● ●	24V/1.44W	36	3
GL-DB6020R-24	●	24V/1.44W		
GL-DB6020W/B/G-24	○ ● ●	24V/2.16W	41	4
GL-DB6020R-24	●	24V/1.44W		
GL-DB8020W/B/G-24	○ ● ●	24V/2.88W	51	5
GL-DB11020R-24	●	24V/2.88W		
GL-DB11020W/B/G-24	○ ● ●	24V/4.32W	72	6
GL-DB11020R-24	●	24V/2.88W		
GL-DB16020R-24	●	24V/4.32W		
GL-DB16020W/B/G-24	○ ● ●	24V/4.37W	101	7
GL-DB16020R-24	●	24V/4.32W		
GL-DB21020R-24	●	24V/5.76W		
GL-DB21020W/B/G-24	○ ● ●	24V/8.64W	131	8
GL-DB21020R-24	●	24V/5.76W		
GL-DB26020R-24	●	24V/7.2W		
GL-DB26020W/B/G-24	○ ● ●	24V/10.8W	160	9
GL-DB26020R-24	●	24V/7.2W		
GL-DB31020R-24	●	24V/8.64W		
GL-DB31020W/B/G-24	○ ● ●	24V/12.96W	190	10
GL-DB31020R-24	●	24V/8.64W		
GL-DB36020R-24	●	24V/10.08W		
GL-DB36020W/B/G-24	○ ● ●	24V/14.88W	222	11
GL-DB36020R-24	●	24V/10.08W		

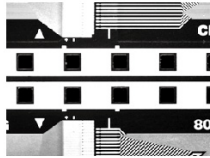
## Imaging examples



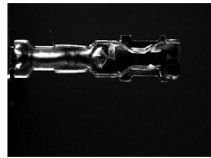
**GL-DB6020B**  
DSP IC



**GL-DB6020W**  
CF Card Character



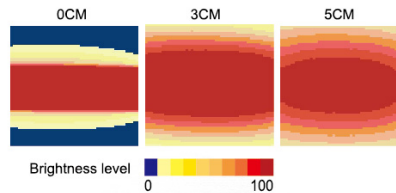
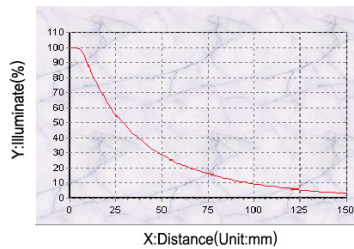
**GL-DB6020W**  
Soft Bus



**GL-DB6020W\*2**  
Terminal

## Luminous intensity distribution characteristics

GL-DB6020R Graph



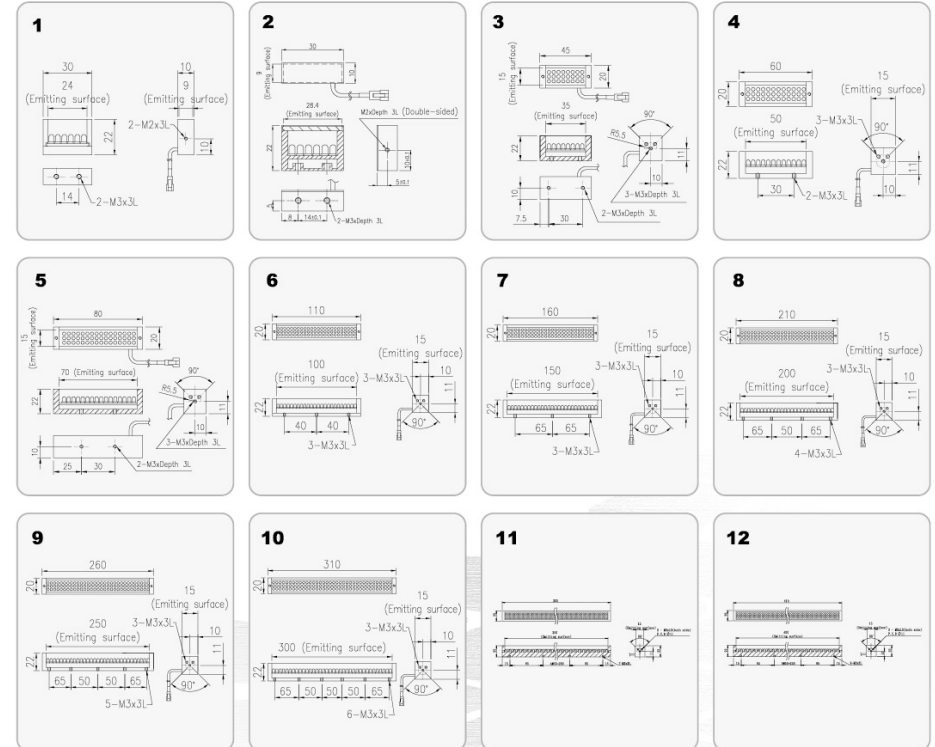
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DB41020R-24	●	24V/11.52W		
GL-DB41020W/B/G-24	○ ● ●	24V/17.28W	253	12
GL-DB41020IR-24	●	24V/11.52W		
GL-DB46020R-24	●	24V/12.96W		
GL-DB46020W/B/G-24	○ ● ●	24V/19.2W	285	13
GL-DB46020IR-24	●	24V/12.96W		
GL-DB51020R-24	●	24V/14.4W		
GL-DB51020W/B/G-24	○ ● ●	24V/21.6W	317	14
GL-DB51020IR-24	●	24V/14.4W		
GL-DB6034R-24	●	24V/2.88W		
GL-DB6034W/B/G-24	○ ● ●	24V/4.32W	60	15
GL-DB6034IR-24	●	24V/2.88W		
GL-DB11034R-24	●	24V/5.76W		
GL-DB11034W/B/G-24	○ ● ●	24V/8.64W	93	16
GL-DB11034IR-24	●	24V/5.76W		
GL-DB16034R-24	●	24V/8.64W		
GL-DB16034W/B/G-24	○ ● ●	24V/12.96W	130	17
GL-DB16034IR-24	●	24V/8.64W		
GL-DB21034R-24	●	24V/11.52W		
GL-DB21034W/B/G-24	○ ● ●	24V/17.28W	160	18
GL-DB21034IR-24	●	24V/11.52W		
GL-DB26034R-24	●	24V/14.4W		
GL-DB26034W/B/G-24	○ ● ●	24V/21.6W	189	19
GL-DB26034IR-24	●	24V/14.4W		
GL-DB31034R-24	●	24V/17.28W		
GL-DB31034W/B/G-24	○ ● ●	24V/25.92W	300	20
GL-DB31034IR-24	●	24V/17.28W		
GL-DB36034R-24	●	24V/20.16W		
GL-DB36034W/B/G-24	○ ● ●	24V/30.24W	263	21
GL-DB36034IR-24	●	24V/20.16W		
GL-DB41034R-24	●	24V/23.04W		
GL-DB41034W/B/G-24	○ ● ●	24V/34.56W	295	22
GL-DB41034IR-24	●	24V/23.04W		
GL-DB46034R-24	●	24V/25.92W		
GL-DB46034W/B/G-24	○ ● ●	24V/38.88W	327	23
GL-DB46034IR-24	●	24V/25.92W		
GL-DB51034R-24	●	24V/28.8W		
GL-DB51034W/B/G-24	○ ● ●	24V/43.2W	359	24
GL-DB51034IR-24	●	24V/28.8W		
GL-DB6020R4-24	●	24V/(1.44W)*4		
GL-DB6020W4/B4/G4-24	○ ● ●	24V/(2.16W)*4	280	25
GL-DB6020IR4-24	●	24V/(1.44W)*4		
GL-DB8020W4/B4/G4-24	○ ● ●	24V/(2.88W)*4	384	26
GL-DB11020R4-24	●	24V/(2.88W)*4		
GL-DB11020W4/B4/G4-24	○ ● ●	24V/(4.4W)*4	511	27
GL-DB11020IR4-24	●	24V/(2.88W)*4		

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DB11034R4-24	●	24V/(5.8W)*4		
GL-DB11034W4/B4/G4-24	○ ● ●	24V/(8.7W)*4	460	28
GL-DB11034IR4-24	●	24V/(5.8W)*4		
GL-DB16020R4-24	●	24V/(4.32W)*4		
GL-DB16020W4/B4/G4-24	○ ● ●	24V/(4.37W)*4	667	29
GL-DB16020IR4-24	●	24V/(4.32W)*4		
GL-DB21034R4-24	●	24V/(11.52W)*4		
GL-DB21034W4/B4/G4-24	○ ● ●	24V/(17.28W)*4	943	30
GL-DB21034IR4-24	●	24V/(11.52W)*4		
GL-DB31020R4-24	●	24V/(8.64W)*4		
GL-DB31020W4/B4/G4-24	○ ● ●	24V/(12.96W)*4	1286	31
GL-DB31020IR4-24	●	24V/(8.64W)*4		
GL-DB110-60-34W4-24	○	24V/25.92W	564	32

## Dimensional Diagrams(mm)



# High Intensity Bar Lights



## Outline

Lights are designed in 2 angles, wide angle (Close-range illumination) and narrow angle (Far-distance illumination)

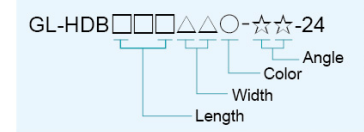
## Feature

1. Distance of irradiating light reaches 1500-3000mm.
2. Illuminance is more than 3-4 times of general bar lights.
3. Customization of light source length is offered, in a module of 150mm.
4. Diffusion plates are available. (P91)

## Application

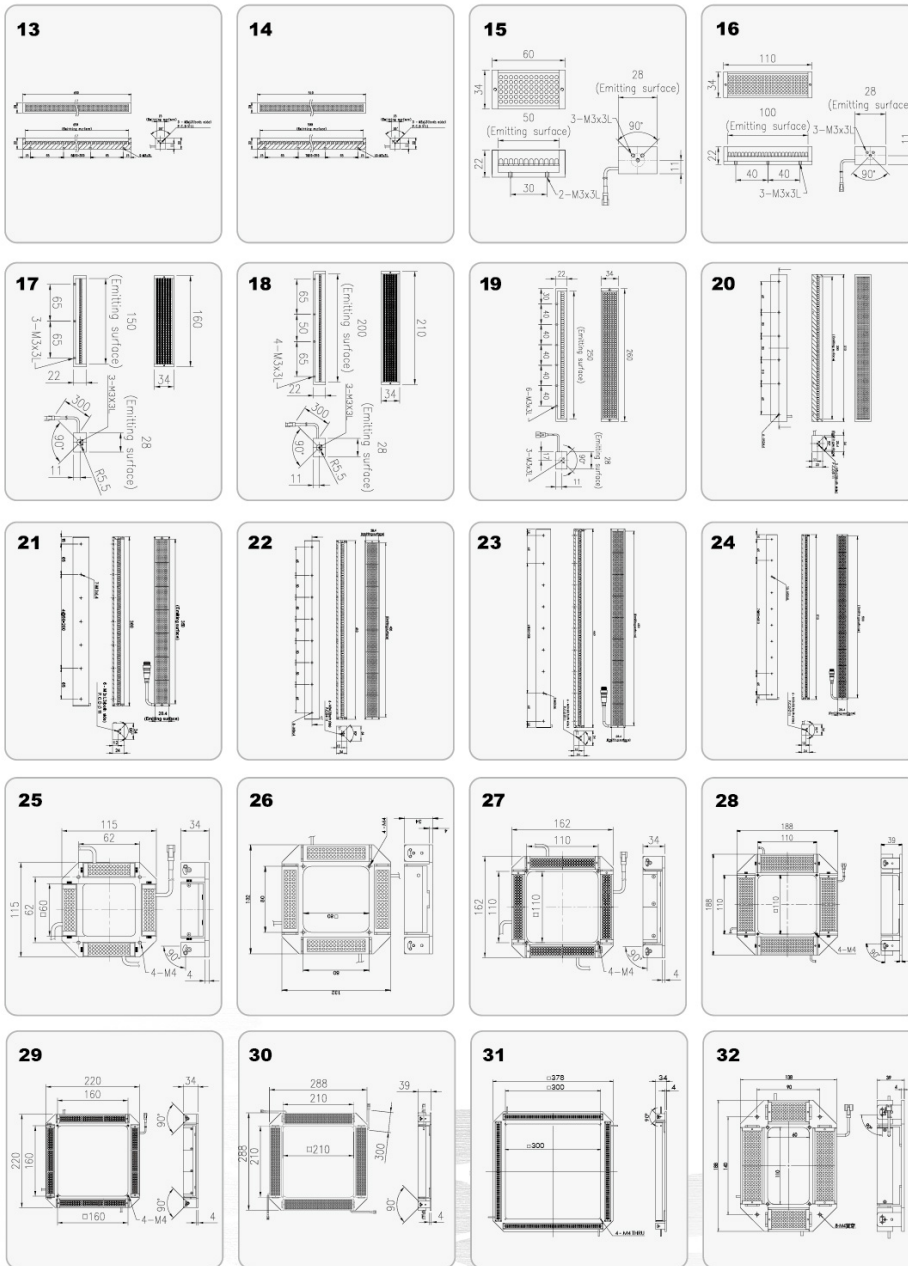
1. Outer inspection of large workpieces
2. Label inspection of logistics cartons
3. Robotic arms operation
4. Inspection of mixed materials
5. Dimension measurement of stamping parts

## Model Explanation

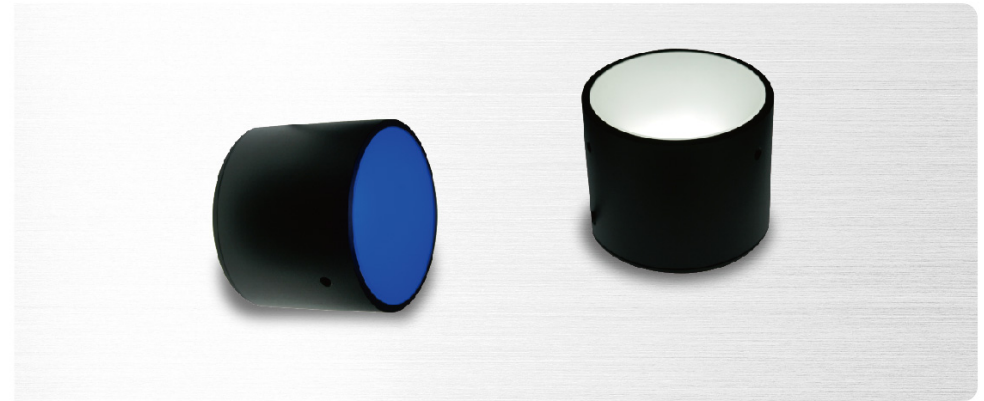


## Available Models

Model	Angle	Color	Power Consumption	Weight (g)	Dimension
GL-HDB15028R-15-24	15°	●	24V/15.5W	367	1
GL-HDB15028W-15-24	15°	○	24V/16.7W		
GL-HDB15028B-15-24	15°	●	24V/16.99W		
GL-HDB15028G-15-24	15°	●	24V/6.91W		
GL-HDB15028R-60-24	60°	●	24V/15.5W		
GL-HDB15028W-60-24	60°	○	24V/16.7W		
GL-HDB15028B-60-24	60°	●	24V/16.99W	780	2
GL-HDB15028G-60-24	60°	●	24V/6.91W		
GL-HDB30028R-15-24	15°	●	24V/31.39W		
GL-HDB30028W-15-24	15°	○	24V/33.4W		
GL-HDB30028B-15-24	15°	●	24V/33.98W		
GL-HDB30028G-15-24	15°	●	24V/14.11W		
GL-HDB30028R-60-24	60°	●	24V/31.39W	1013	3
GL-HDB30028W-60-24	60°	○	24V/33.4W		
GL-HDB30028B-60-24	60°	●	24V/33.98W		
GL-HDB30028G-60-24	60°	●	24V/14.11W		
GL-HDB45028R-15-24	15°	●	24V/47.23W		
GL-HDB45028W-15-24	15°	○	24V/51.26W		
GL-HDB45028B-15-24	15°	●	24V/51.26W	1013	3
GL-HDB45028G-15-24	15°	●	24V/21.25W		
GL-HDB45028R-60-24	60°	●	24V/47.23W		
GL-HDB45028W-60-24	60°	○	24V/51.26W		
GL-HDB45028B-60-24	60°	●	24V/51.26W		
GL-HDB45028G-60-24	60°	●	24V/21.25W		



# Small Dome Lights



## Outline

Object can be completely covered by small dome light to achieve shadowless illumine.

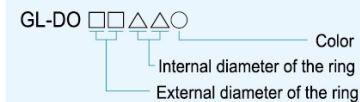
## Feature

1. Provide higher uniformity than conventional lights.
2. Inspect uneven surfaces or small size objects.

## Major applications

1. Inspections of the print on the bottom of aluminum cans
2. Curved metal surfaces and similar surfaces

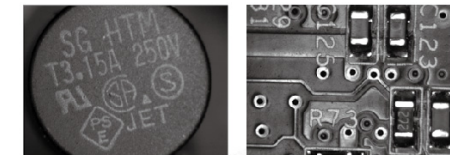
## Model explanation



## Available Models

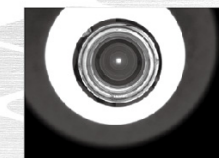
Model	Color	Power Consumption	Weight (g)	Dimension
GL-DO5411R-24	●	24V/2.88W		
GL-DO5411W/B/G-24	○ ● ●	24V/4.32W	130	1
GL-DO5411IR-24	●	24V/2.88W		
GL-DO9416R-24	●	24V/9.6W		
GL-DO9416W/B/G-24	○ ● ●	24V/14.4W	200	2
GL-DO9416IR-24	●	24V/9.6W		

## Imaging examples

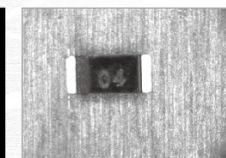


**GL-DO5411R**  
Transistor Character

**GL-DO5411W**  
PC Board

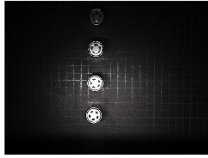


**GL-DO5411W**  
Plastic Can Opening

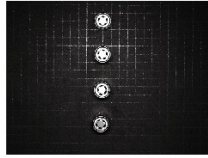


**GL-DO5411B**  
Diode Parts

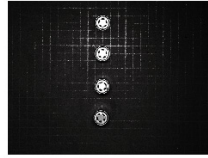
## Imaging examples



**GL-HDB15028W-15-24**  
Battery Outer Inspection  
WD500mm

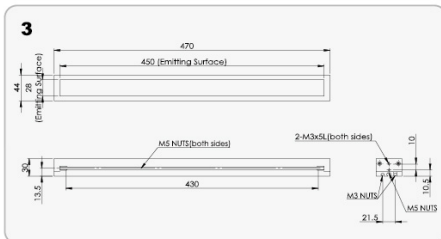
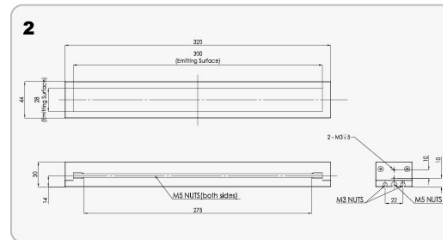
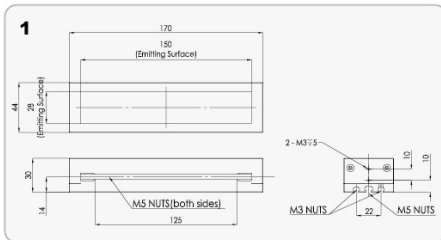


**GL-HDB15028W-15-24**  
Battery Outer Inspection  
WD1000mm



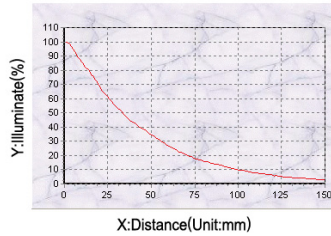
**GL-HDB15028W-15-24**  
Battery Outer Inspection  
WD1300mm

## Dimensional Diagrams(mm)

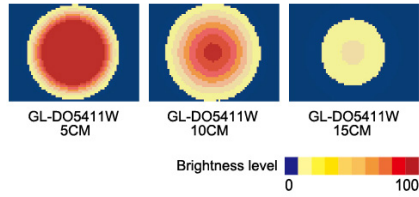


## Luminous intensity distribution characteristics

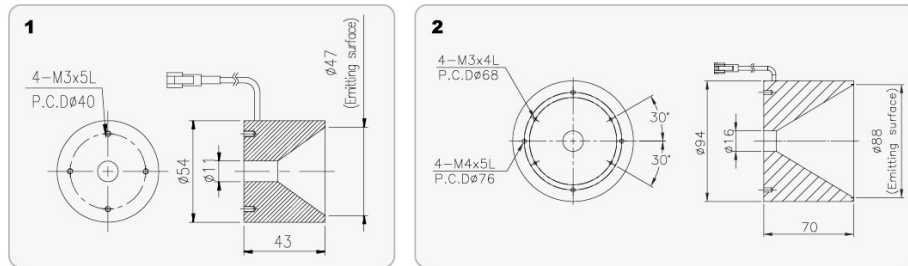
GL-DO5411W Graph



Illuminate Height: 5CM,10CM,15CM



## Dimensional Diagrams(mm)



## Indirect Lighting

# 360° Omni-Directional Dome Lights



## Outline

Fan-cooling method. Unique design prevents light diffusion. Made with 200mm & 300mm modules.

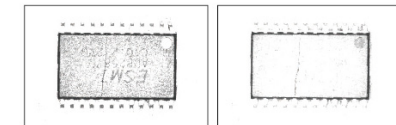
## Feature

1. Standard length is 200mm-1000mm; customization is available.
2. Its illumination, over 1 M Lux, is 2.5 times higher than High Intensity Line Light series.
3. Built-in temperature detection, over 70°C to activate the power off.
4. Can be used as backlight with diffusion plate.
5. Suitable for surface scratch detection.

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DDO7713R-24	●	24V/4.32W		
GL-DDO7713W/B/G-24	○ ● ●	24V/6.9W	134	1
GL-DDO7713IR-24	●	24V/4.32W		

## Imaging examples



Conventional light DDO7713R-24

## Major Applications

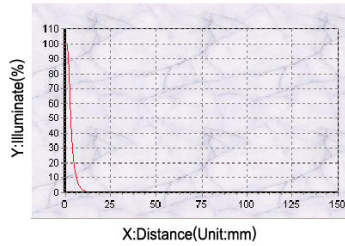
1. Inspection of Wafers
2. Metal surfaces.
3. Rolls and Prints
4. LCD glass.

## Model explanation

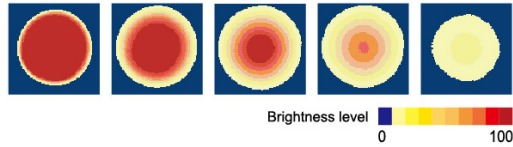


## Luminous intensity distribution characteristics

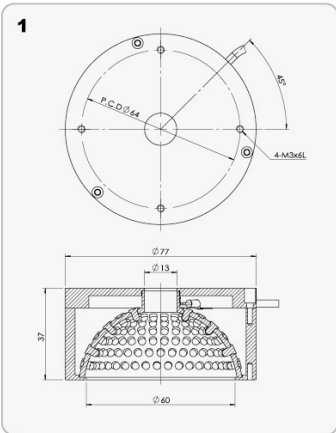
GL-DDO7713 Graph



Illuminate Height: 0CM, 1CM, 2CM, 3CM, 5CM



## Dimensional Diagrams(mm)



## Indirect Lighting

# Shadowless Lights



## Outline

Ability to evenly diffused lighting from low angle with the diffusion plate. Best for preventing the halo effect.

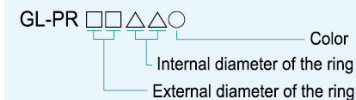
## Feature

1. Provide higher uniformity than conventional lights.
2. Inspect uneven surfaces and large size objects.
3. Suitable for multiple applications at different WD

## Major applications

1. IC wafer inspection & substrate part inspection
2. Inspection from the side and to emerge from internal surfaces of object for stain
3. Visual inspection of wafers
4. Solder inspection & connector pitch inspection

## Model explanation



## Available Models

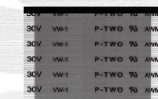
Model	Color	Power Consumption	Weight (g)	Dimension
GL-PR6739R-24	●	24V/2.4W		
GL-PR6739W/B/G-24	○ ● ●	24V/3.84W	130	1
GL-PR6739IR-24	●	24V/2.4W		
GL-PR9058R-24	●	24V/3.36W		
GL-PR9058W/B/G-24	○ ● ●	24V/4.8W	180	2
GL-PR9058IR-24	●	24V/3.36W		
GL-PR136108R-24	●	24V/7.2W		
GL-PR136108W/B/G-24	○ ● ●	24V/10.6W	227	3
GL-PR136108IR-24	●	24V/7.2W		
GL-PR21080W-24	○	24V/34.56W	967	4
GL-PR260165WG-24	○ ●	24V/35.52W	1200	5

## Imaging examples



**GL-PR6739R**  
LED Chip

**GL-PR136108R**  
Aluminum Ring For Tire

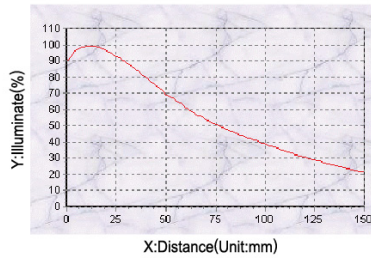


**GL-PR136108R**  
Character On Bus

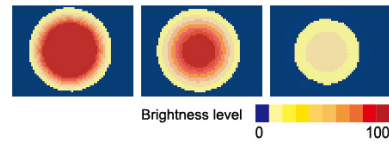
**GL-PR136108W**  
IC Chip

## Luminous intensity distribution characteristics

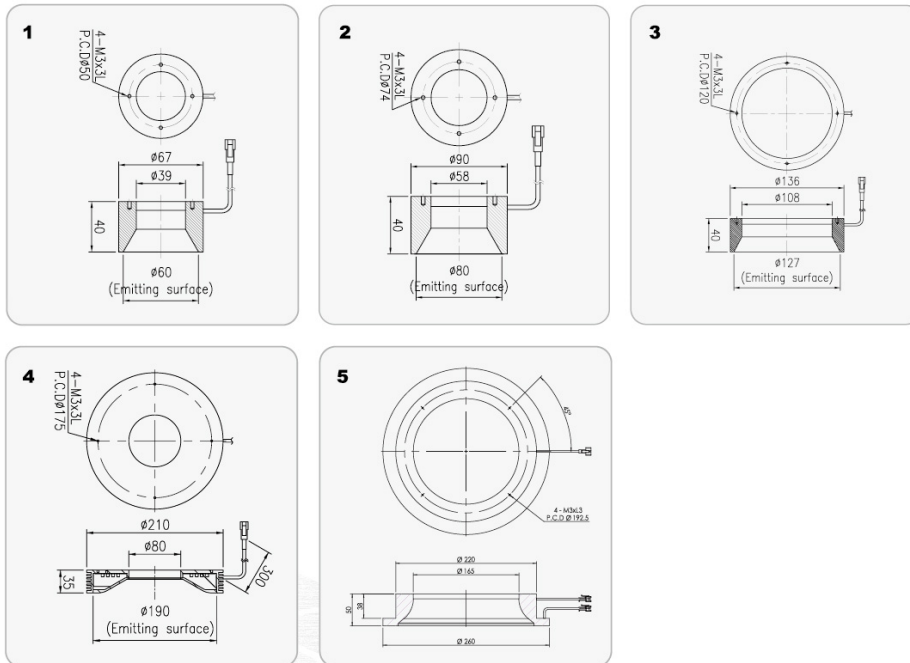
GL-PR6739R Graph



Illuminate Height:5CM,10CM,15CM

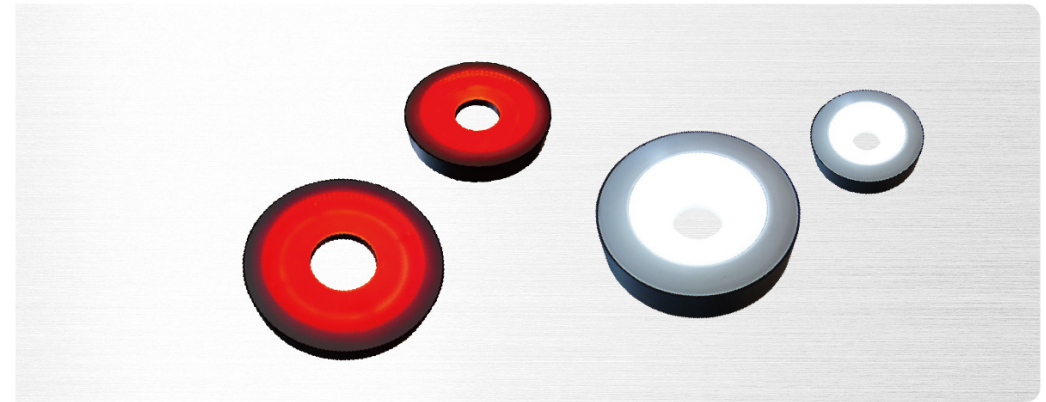


## Dimensional Diagrams(mm)



## Indirect Lighting

# NEW Shadowless Ring Lights



## Outline

Ability to evenly diffused lighting on shiny objects with the diffusion plate.  
Best for preventing the halo effect.

## Feature

1. Provide higher uniformity than conventional lights.
2. Inspect uneven surfaces and reflective materials.

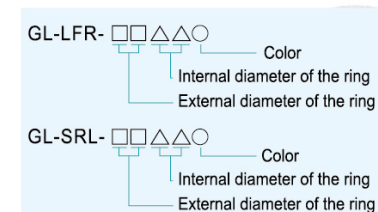
## Major applications

1. IC wafer inspection & substrate part inspection
2. Inspection from the side and to emerge from internal surfaces of object for stain
3. Visual inspection of wafers
4. Solder inspection & connector pitch inspection

## Available Models

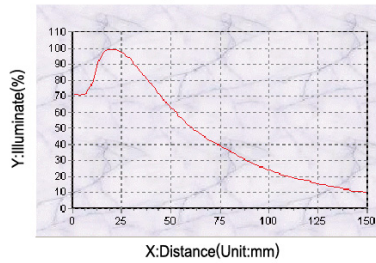
Model	Color	Power Consumption	Weight (g)	Dimension
GL-LFR7420R-24	●	24V/1.92W		
GL-LFR7420W/B/G-24	○ ● ●	24V/2.88W	92	1
GL-LFR7420IR-24	●	24V/1.92W		
GL-LFR10233R-24	●	24V/2.4W		
GL-LFR10233W/B/G-24	○ ● ●	24V/3.9W	160	2
GL-LFR10233IR-24	●	24V/2.4W		
GL-LFR12544R-24	●	24V/3.4W		
GL-LFR12544W/B/G-24	○ ● ●	24V/5.3W	234	3
GL-LFR12544IR-24	●	24V/3.4W		
NEW GL-LFR22070R-24	●	24V/5.76W		
NEW GL-LFR22070W/B/G-24	○ ● ●	24V/9.12W	739	4
NEW GL-LFR22070IR-24	●	24V/5.76W		
GL-SRL7420R-24	●	24V/3.9W		
GL-SRL7420W/B/G-24	○ ● ●	24V/5.8W	101	5
GL-SRL7420IR-24	●	24V/3.9W		
GL-SRL10233R-24	●	24V/5.3W		
GL-SRL10233W/B/G-24	○ ● ●	24V/8.2W	179	6
GL-SRL10233IR-24	●	24V/5.3W		
GL-SRL12544R-24	●	24V/6.8W		
GL-SRL12544W/B/G-24	○ ● ●	24V/10.1W	259	7
GL-SRL12544IR-24	●	24V/6.8W		
GL-SRL20075R-24	●	24V/7.4W		
GL-SRL20075W/B/G-24	○ ● ●	24V/12.96W	150	8
GL-SRL20075IR-24	●	24V/7.4W		

## Model explanation

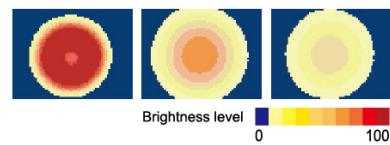


## Luminous intensity distribution characteristics

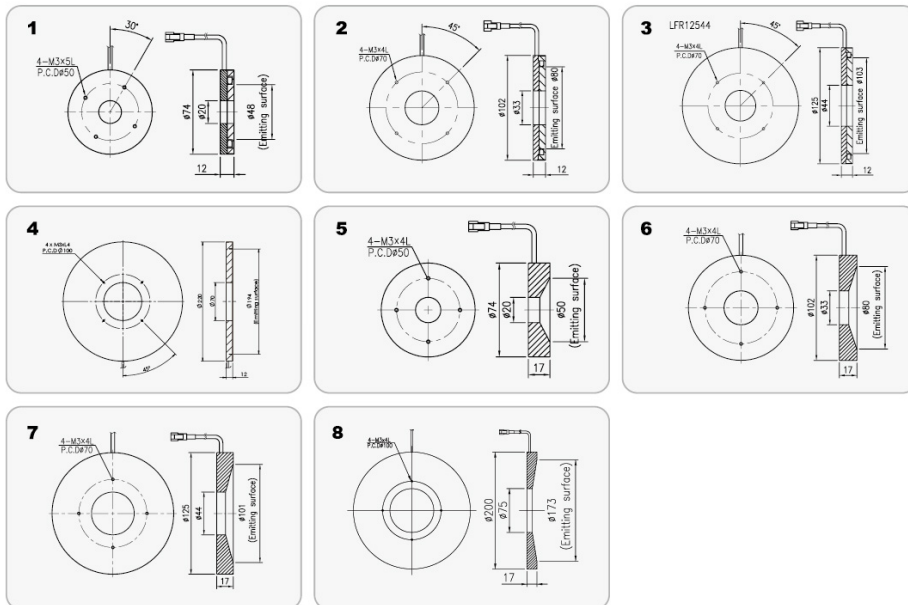
GL-LFR7420W Graph



Illuminate Height:5CM,10CM,15CM



## Dimensional Diagrams(mm)



## Indirect Lighting

# Coaxial Lights



## Outline

Diffused light from the LED is illuminated on the same axis as the camera axis. Light outlet direction changes from vertical to horizontal.

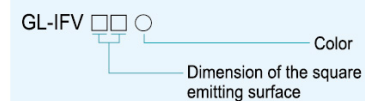
## Feature

1. High-precision optical glass will increase the light transmittance and resolution.
2. Prevent ghost images and reflected light.
3. Allow high-resolution imaging.
4. Inspect reflective materials.

## Major applications

1. Inspection of highly reflective surfaces, such as wafers, metal surfaces, film, liquid crystals and glass.
2. Imprint check
3. Inspection of pattern of printed boards.

## Model explanation



## Available Models

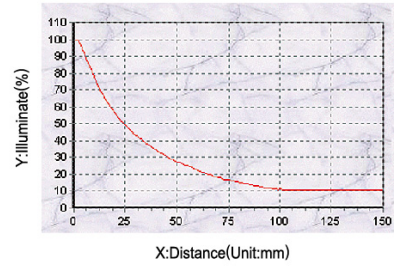
Model	Color	Power Consumption	Weight (g)	Dimension
GL-IFV20R-24	●	24V/0.96W		
GL-IFV20W/B/G-24	○ ● ●	24V/1.44W	60	1
GL-IFV20IR-24	●	24V/0.96W		
GL-IFV34R-24	●	24V/2.4W		
GL-IFV34W/B/G-24	○ ● ●	24V/3.9W	132	2
GL-IFV34IR-24	●	24V/2.4W		
GL-IFV40R-24	●	24V/2.88W		
GL-IFV40W/B/G-24	○ ● ●	24V/4.32W	184	3
GL-IFV40IR-24	●	24V/2.88W		
GL-IFV50R-24	●	24V/5.76W		
GL-IFV50W/B/G-24	○ ● ●	24V/8.64W	260	4
GL-IFV50IR-24	●	24V/5.76W		
GL-IFV70R-24	●	24V/11.52W		
GL-IFV70W/B/G-24	○ ● ●	24V/17.28W	580	5
GL-IFV70IR-24	●	24V/11.52W		
GL-IFV100R-24	●	24V/23.04W		
GL-IFV100W/B/G-24	○ ● ●	24V/24.19W	885	6
GL-IFV100IR-24	●	24V/23.04W		
GL-IFV130R-24	●	24V/40.8W		
GL-IFV130W/B/G-24	○ ● ●	24V/61.44W	1420	7
GL-IFV130IR-24	●	24V/40.8W		
GL-IFV200R-24	●	24V/57.6W		
GL-IFV200W/B/G-24	○ ● ●	24V/86.4W	6400	8
GL-IFV200IR-24	●	24V/57.6W		



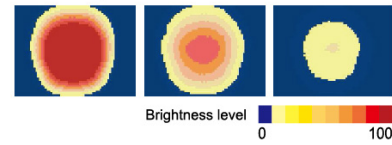
Model	Color	Power Consumption	Weight (g)	Dimension
GL-IFV2-34R-24	●	24V/2.3W	146	9
GL-IFV2-34W/B/G-24	○ ●	24V/4.89W	213	10
GL-IFV2-130IR940-24	●	24V/27.6W	213	10
GL-IFV3-34R-24	●	24V/8.16W	182	11
GL-IFV3-34W/B/G-24	○ ●	24V/20.54W	182	11

## Luminous intensity distribution characteristics

GL-IFV40R Graph



Illuminate Height:5CM,10CM,15CM



## Imaging examples



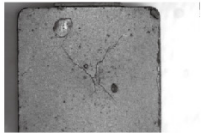
GL-IFV40W  
Screw Surface



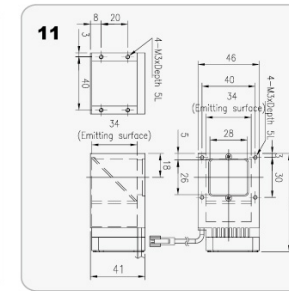
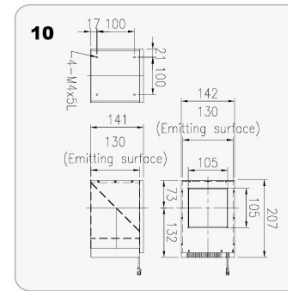
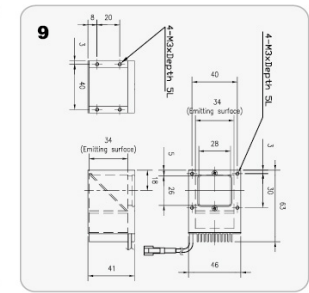
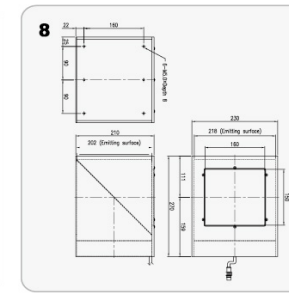
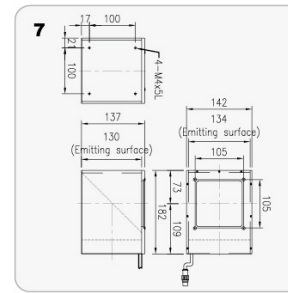
GL-IFV40W  
LCD Panel Circuit



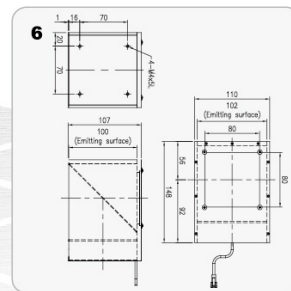
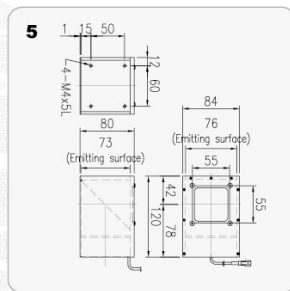
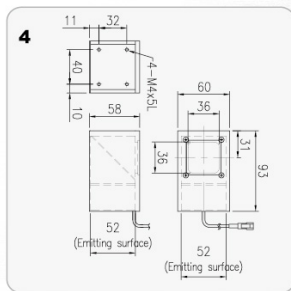
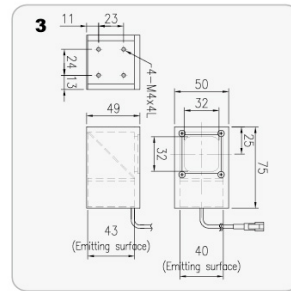
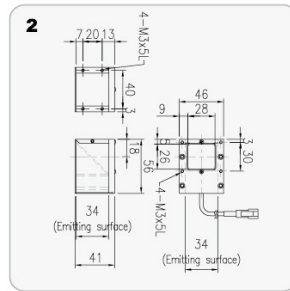
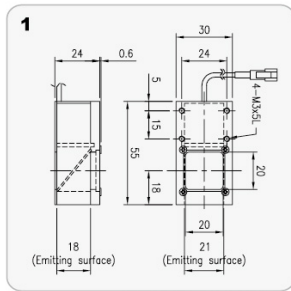
GL-IFV40B  
2D Bar Code



GL-IFV50R  
Iron Powder Capacitance



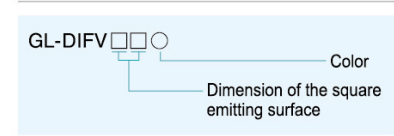
## Dimensional Diagrams(mm)



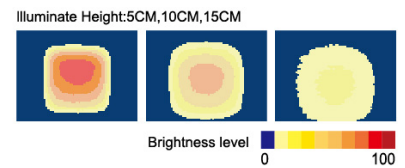
# High Directivity Coaxial Lights



## Model explanation



## Luminous intensity distribution characteristics



## Outline

High directivity light is illuminated on the same axis as the camera axis.

## Feature

1. Coated window mirror increases light transmittance and reduces light reflection.
2. Specially-made beam splitter reduces ghosting(overlay) images and supports high-resolution cameras.
3. Equipped with high directivity optical film, it suppresses light diffusion and greatly improves brightness.
4. Lights are suitable to inspect highly reflective objects.
5. No blurred grayscale gradient affects the accuracy.

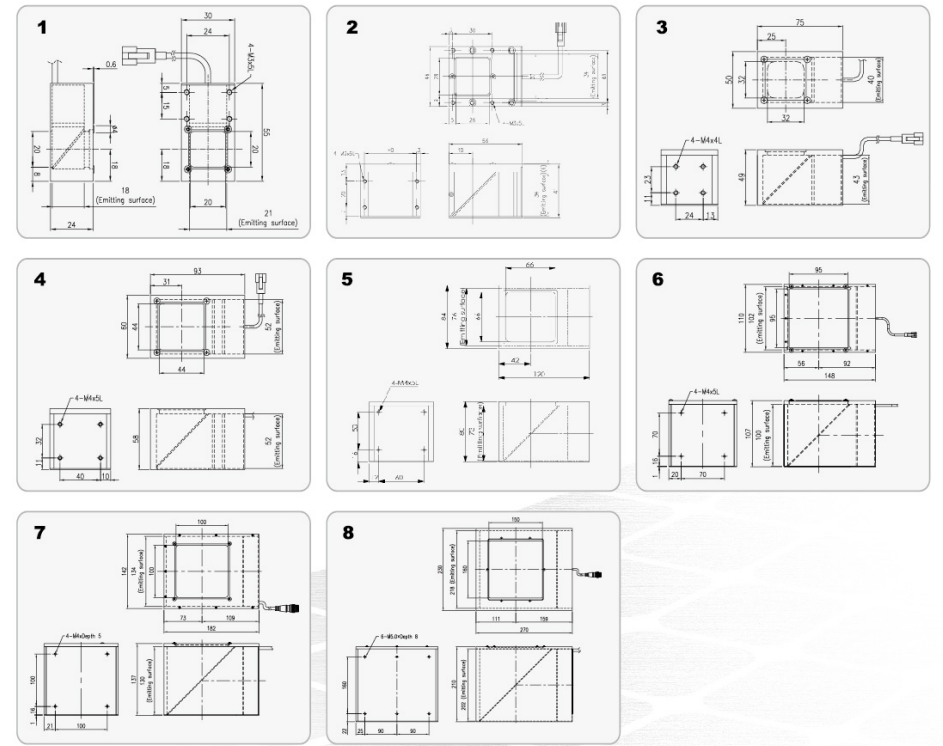
## Major applications

1. Inspection of highly reflective surfaces, such as wafers, metal surfaces, film, liquid crystals and glass.
2. Imprint check
3. Inspection of pattern of printed boards.

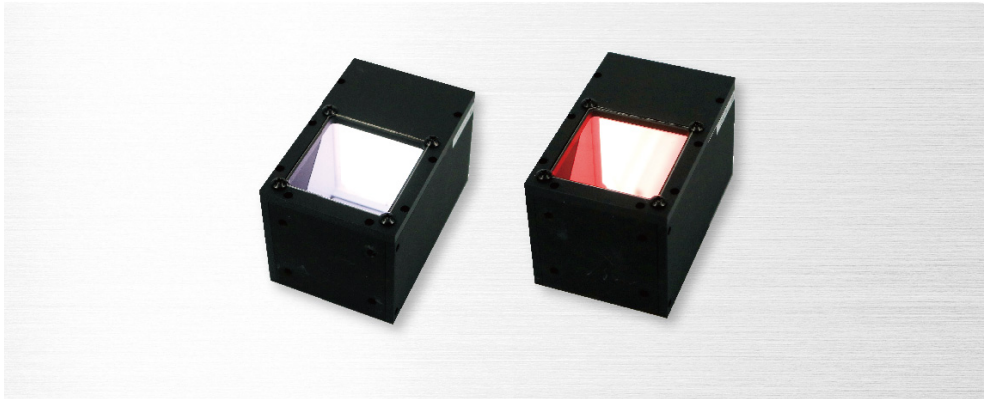
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DIFV20R-24	●	24V/0.96W		
GL-DIFV20W/B/G-24	○ ● ●	24V/1.44W	60	1
GL-DIFV20IR-24	●	24V/0.96W		
GL-DIFV34R-24	●	24V/2.4W		
GL-DIFV34W/B/G-24	○ ● ●	24V/3.84W	132	2
GL-DIFV34IR-24	●	24V/2.4W		
GL-DIFV40R-24	●	24V/2.88W		
GL-DIFV40W/B/G-24	○ ● ●	24V/4.32W	184	3
GL-DIFV40IR-24	●	24V/2.88W		
GL-DIFV50R-24	●	24V/5.76W		
GL-DIFV50W/B/G-24	○ ● ●	24V/8.64W	260	4
GL-DIFV50IR-24	●	24V/5.76W		
GL-DIFV70R-24	●	24V/11.52W		
GL-DIFV70W/B/G-24	○ ● ●	24V/17.28W	580	5
GL-DIFV70IR-24	●	24V/11.52W		
GL-DIFV100R-24	●	24V/13.82W		
GL-DIFV100W/B/G-24	○ ● ●	24V/20.74W	885	6
GL-DIFV100IR-24	●	24V/13.82W		
GL-DIFV130R-24	●	24V/40.8W		
GL-DIFV130W/B/G-24	○ ● ●	24V/61.44W	1420	7
GL-DIFV130IR-24	●	24V/40.8W		
GL-DIFV200R-24	●	24V/57.6W		
GL-DIFV200W/B/G-24	○ ● ●	24V/86.4W	6400	8
GL-DIFV200IR-24	●	24V/57.6W		

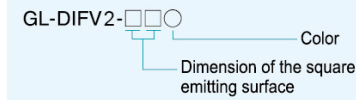
## Dimensional Diagrams(mm)



# High Directivity and Intensity Coaxial Lights

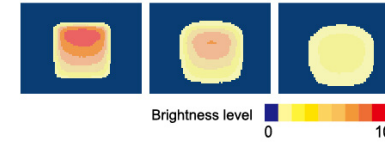


## Model explanation

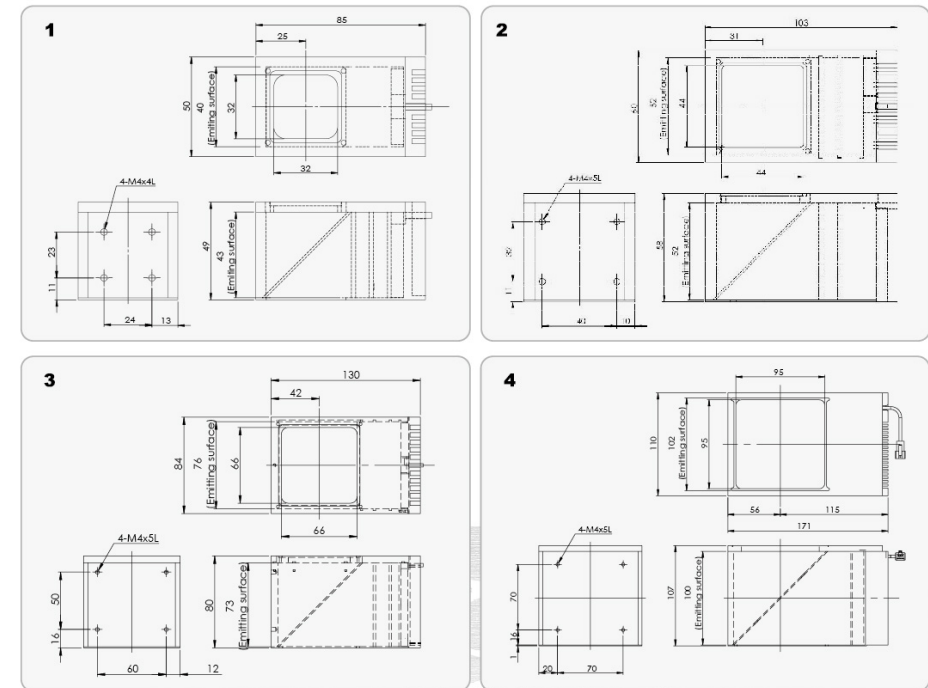


## Luminous intensity distribution characteristics

Illuminate Height : 5CM,10CM,15CM



## Dimensional Diagrams(mm)



## Outline

Highly directivity and intensity light is illuminated on the same axis as the camera axis.

## Feature

1. With HI-POWER LED, its illuminance is 3 times more than the conventional coaxial light.
2. Coated window mirror increases light transmittance and reduces light reflection.
3. Specially-made beam splitter reduces ghosting (overlay) images and supports high-resolution cameras.
4. Equipped with high directivity optical film, it suppresses light diffusion and greatly improves brightness.
5. Lights are suitable to inspect highly reflective objects.
6. No blurred grayscale gradient affects the accuracy.

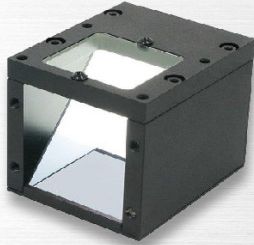
## Major applications

1. Inspection of highly reflective surfaces, such as wafers, metal surfaces, film, liquid crystals and glass.
2. Imprint check
3. Inspection of pattern of printed boards.

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DIFV2-40R-24	●	24V/7.2W		
GL-DIFV2-40W/B/G-24	○ ● ●	24V/7.2W	184	1
GL-DIFV2-40IR-24	●	24V/7.2W		
GL-DIFV2-50R-24	●	24V/12W		
GL-DIFV2-50W/B/G-24	○ ● ●	24V/11.52W	260	2
GL-DIFV2-50IR-24	●	24V/12W		
GL-DIFV2-70R-24	●	24V/24W		
GL-DIFV2-70W/B/G-24	○ ● ●	24V/21.6W	580	3
GL-DIFV2-70IR-24	●	24V/24W		
GL-DIFV2-100R-24	●	24V/19W		
GL-DIFV2-100W/B/G-24	○ ● ●	24V/28.8W	885	4
GL-DIFV2-100IR-24	●	24V/19W		

# Angle Coaxial Lights



## Outline

Diffused light from the LED is illuminated on the same axis as the camera axis. Light outlet direction changes from vertical to horizontal.

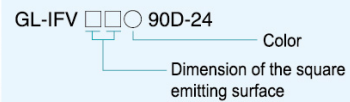
## Feature

1. High precision optical glass increases the light transmittance and resolution.
2. Prevent ghosting(overlay)images and reflection
3. Allow high resolution imaging
4. Inspect reflective materials

## Major applications

1. Imprint check
2. Inspection of pattern of printed boards.
3. Inspection of highly reflective surfaces, such as wafers, metal surfaces, film, liquid crystals and glass.

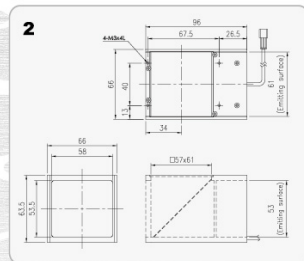
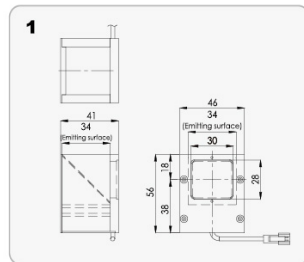
## Model explanation



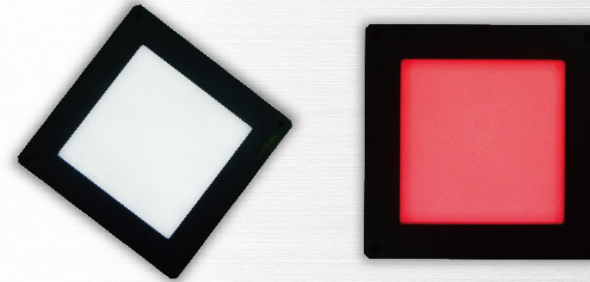
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-IFV34R-90D-24	●	24V/2.4W	126	1
GL-IFV34W/B/G-90D-24	○ ● ●	24V/3.84W		
GL-IFV58R-90D-24	●	24V/2.7W	420	2
GL-IFV58W/B/G-90D-24	○ ● ●	24V/4.03W		

## Dimensional Diagrams(mm)



# Flat Dome Lights



## Outline

Thickness of 10mm, providing shadowless lighting effects.

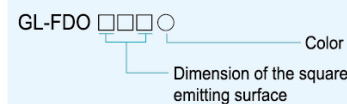
## Feature

1. Thickness of 10mm, providing hemispherical light effects.
2. Light and thin design for easy installation
3. Suitable for high reflection specular objects.

## Major applications

1. Inspection of the printing on the bottoms of aluminum cans or batteries
2. Inspection of the circuit of PCB
3. Inspection of the keyboard of mobile phone
4. Inspection of reflective materials

## Model explanation



## Available Models

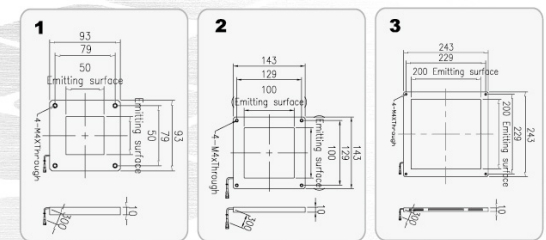
Model	Color	Power Consumption	Weight (g)	Dimension
GL-FDO50R-24	●	24V/0.66W	145	1
GL-FDO50W/B/G-24	○ ● ●	24V/0.99W		
GL-FDO100R-24	●	24V/3.84W		
GL-FDO100W/B/G-24	○ ● ●	24V/5.76W	271	2
GL-FDO100IR-24	●	24V/3.84W		
GL-FDO200R-24	●	24V/12.09W	540	3
GL-FDO200W/B/G-24	○ ● ●	24V/17.28W		

## Imaging examples

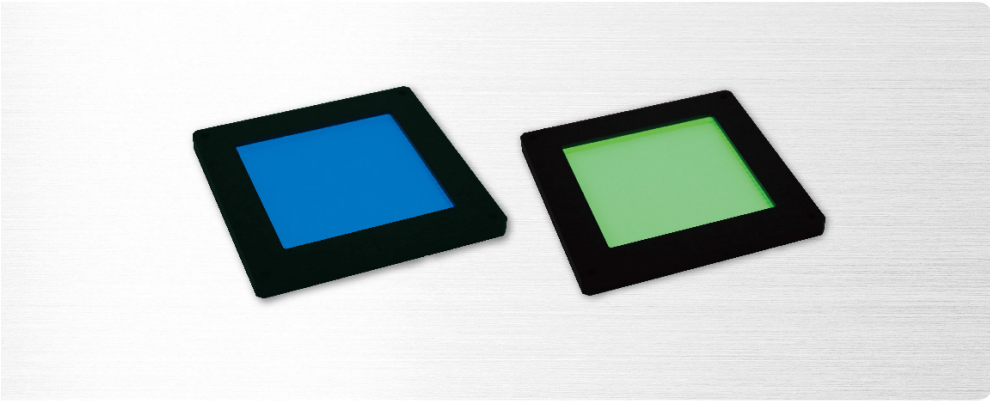


GL-FDO100R COKE CAN    GL-FDO100R KEYPAD    GL-FDO100W BATTERY    GL-FDO100W PCB

## Dimensional Diagrams(mm)



# High Intensity Flat Dome Lights



## Outline

Thickness of 10mm, providing shadowless lighting effects.

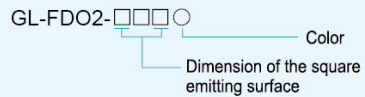
## Feature

1. Thickness of 10mm, providing hemispherical light effects.
2. Using HI-POWER LED, brightness is 5 times more than conventional lighting.
3. Suitable for high reflection specular objects.

## Major applications

1. Inspection of the printing on the bottoms of aluminum cans or batteries
2. Inspection of the circuit of PCB
3. Inspection of the keyboard of mobile phone.
4. Inspection of reflective materials

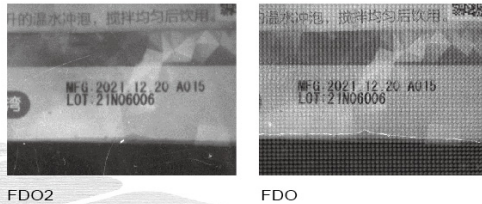
## Model explanation



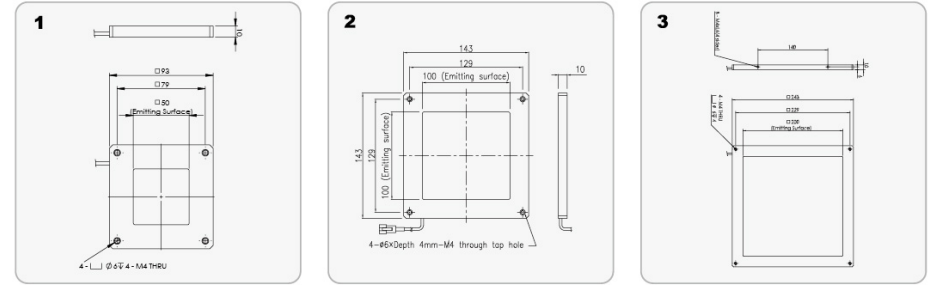
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-FDO2-50R-24	●	24V/7.48W		
GL-FDO2-50W/B/G-24	○ ● ●	24V/8.98W	145	1
GL-FDO2-50IR-24	●	24V/7.48W		
GL-FDO2-100R-24	●	24V/11.23W		
GL-FDO2-100W/B/G-24	○ ● ●	24V/13.25W	271	2
GL-FDO2-100IR-24	●	24V/11.23W		
GL-FDO2-200R-24	●	24V/23.6W		
GL-FDO2-200W/B/G-24	○ ● ●	24V/27.9W	400	3
GL-FDO2-200IR-24	●	24V/23.6W		

## Imaging examples



## Dimensional Diagrams(mm)



# NEW Spot Lights



## Outline

Collecting optics by used light guides to maximum spot luminance, Compatible with macro lenses.

## Feature

1. Inspection of positioning fit, reflective and small objectives.
2. HLV2-6040 series are 5 times brighter than HLV series.

## Major applications

1. Coaxial lighting for highly reflective surfaces, such as wafers, metal surfaces, liquid-crystal and GL-H glass material.
2. Mounted on movable modules.

## Model explanation

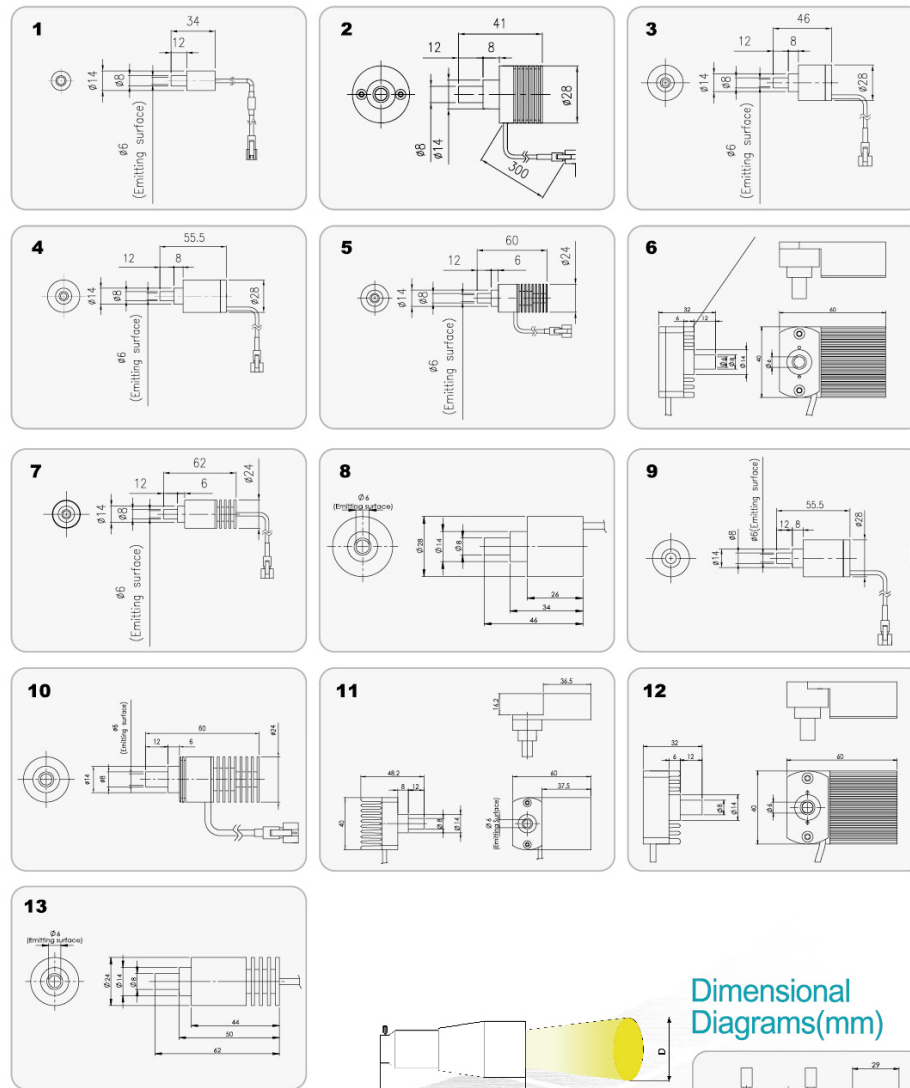
- GL-LV-□□○ Color  
Spot Diameter
- GL-HLV△-□□○ Color  
Version Spot Diameter
- GL-HLV□□○ Color  
Spot Diameter

## Available Models

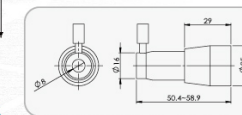
Model	Color	Power Consumption	Weight (g)	Dimension
GL-LV14R-24	●	24V/0.3W		
GL-LV14W/B/G-24	○●●	24V/0.3W	16	1
GL-LV14IR-24	●	24V/0.3W		
GL-HLV28W-24	○	24V/1.0W	39	2
GL-HLV28R	●	350mA/1.0W		
GL-HLV28W/B/G	○●●	350mA/1.0W	39	3
GL-HLV28IR	●	350mA/1.0W		
GL-HLV2-28R	●	350mA/1.0W	65	4
GL-HLV2-28W/B/G	○●●	350mA/1.0W		
GL-HLV2-24R-3W	●	700mA/3W	153	5
GL-HLV2-24W/B/G-3W	○●●	700mA/3W		
GL-HLV2-6040R-5W	●	1300mA/5W	113	6
GL-HLV2-6040W/B/G-5W	○●●	1300mA/5W		
GL-HLV3-24R	●	500mA/2.0W	40	7
GL-HLV3-24W/B/G	○●●	500mA/2.0W		
GL-HLV28R-A	●	350mA/1.0W		
GL-HLV28W/B/G-A	○●●	350mA/1.0W	39	8
GL-HLV28IR-A	●	350mA/1.0W		
GL-HLV2-28R-A	●	350mA/1.0W	53	9
GL-HLV2-28W/B/G-A	○●●	350mA/1.0W		
GL-HLV2-24R-3W-A	●	700mA/3W	37	10
GL-HLV2-24W/B/G-3W-A	○●●	700mA/3W		
GL-HLV2-6040R-5W-A	●	1300mA/5.0W	70	11
GL-HLV2-6040W/B/G-5W-A	○●●	1300mA/5.0W		
<b>NEW</b> GL-HLV2-6040IR850-5W-A	●	1300mA/5.0W	119	12
GL-HLV3-24R-A	●	500mA/2.0W	40	13
GL-HLV3-24W/B/G-A	○●●	500mA/2.0W		

PS: Dimmer for Spot Lights is on P101.

## Dimensional Diagrams(mm)



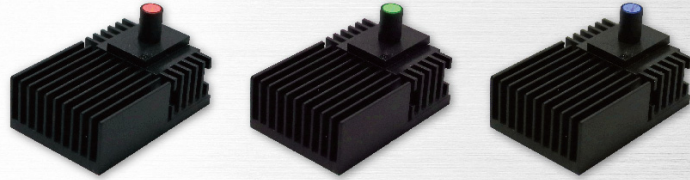
## Dimensional Diagrams(mm)



## NEW Concentrating Optical Module ALC-FBLN-08

	200mm	300mm	400mm	500mm	600mm	700mm	800mm	900mm	1000mm
Working Distance(WD)	200mm	300mm	400mm	500mm	600mm	700mm	800mm	900mm	1000mm
Accessory Length(L)	58	56	55	54.5	54.5	54.5	54.5	54	54
Lighting Diameter(D)	35	55	75	95	115	135	155	170	190

# NEW RGB Spotlights



## Outline

Used with a coaxial telecentric lens, a special optical design to illuminate a high-brightness spot light source.

## Feature

1. It can control and adjust three colors, RGB, lighting source independently.
2. Different colors can be adjusted according to detection conditions.
3. Mix up RGB to emit yellow, light blue, pink and other colors. Ideal light colors are easily prepared.
4. Suitable for positioning and fitting with highly reflective mirrors and small-sized measured objects.
5. To save valuable man-hours for replacing other light sources.
6. Suitable for laboratory lighting evaluation cases.

## Applications

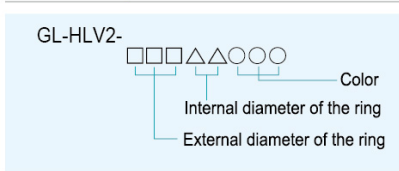
1. Inspection for easily reflective objects such as wafers, metal surfaces, film rolls, liquid crystals and glass.
2. Installation in removable modules

## Available Models

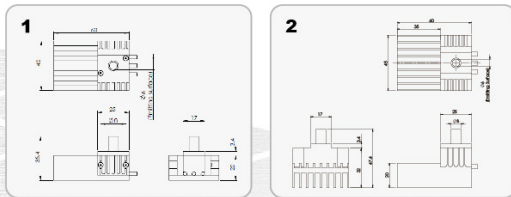
Model	Color	Power Consumption	Weight (g)	Dimension
GL-HLV2-6040RGB-A	●●●	350mA/1.0W	93	1
<b>NEW</b> GL-HLV3-6045RGB-A	●●●	700mA/2.0W	119	2

PS: Dimmer for RGB Spotlights is on P101.

## Model explanation



## Dimensional Diagrams(mm)



# Telecentric Lens

- ▶ Compatible with 2MP sensors on 2/3" cameras
- ▶ A wide variety of magnification options available (65mm WD - 0.5x, 0.8x, 1.0x, 2.0x, 110mm WD - 0.3x, 0.5x, 0.8x, 1.0x, 1.5x, 2.0x) which include coaxial models
- ▶ Low TV distortion correction to the furthest corner (0.01 ~ 0.03s%)

## WD-65mm

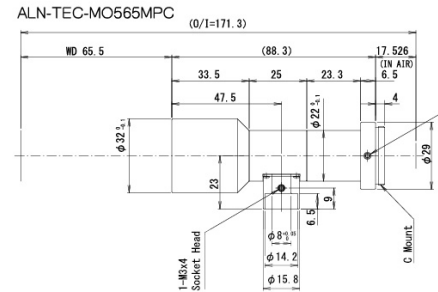
### ALN-TEC-MO565MPC / ALN-TEC-MO565MP



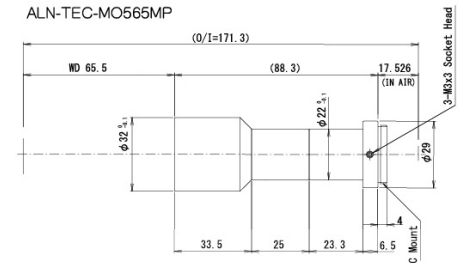
Model (with coaxial type)	ALN-TEC-MO565MPC
Model (straight type)	ALN-TEC-MO565MP
Format	2/3" $\phi$ 11mm
Magnification	0.5x
Working Distance	65.5mm
Resolving Power *1	12 $\mu$ m
Depth of Field *2	2.87mm
NA	0.028
Effective F number	9
TV Distortion	-0.012%

Field of View	2/3inch	17.6 x 13.2mm
	1/1.8inch	14.35 x 10.64mm
	1/2inch	12.8 x 9.6mm
	1/3inch	9.6 x 7.2mm
Mount	C-mount	
Weight (with coaxial type)	80g	
Weight (straight type)	77g	

### ALN-TEC-MO565MPC



### ALN-TEC-MO565MP



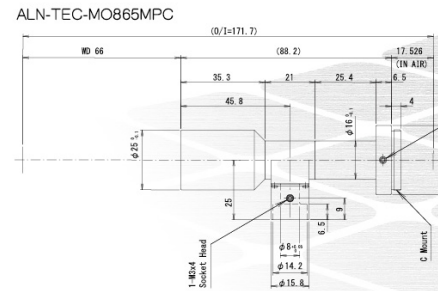
### ALN-TEC-MO865MPC / ALN-TEC-MO865MP



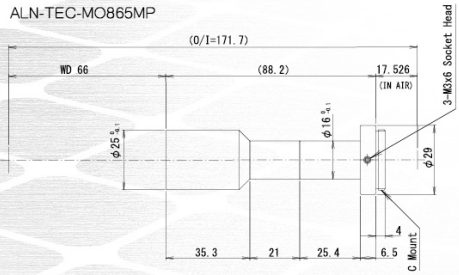
Model (with coaxial type)	ALN-TEC-MO865MPC
Model (straight type)	ALN-TEC-MO865MP
Format	2/3" $\phi$ 11mm
Magnification	0.8x
Working Distance	66mm
Resolving Power *1	8 $\mu$ m
Depth of Field *2	1.18mm
NA	0.042
Effective F number	9.4
TV Distortion	0.008%

Field of View	2/3inch	11 x 8.25mm
	1/1.8inch	8.97 x 6.65mm
	1/2inch	8 x 6mm
	1/3inch	6 x 4.5mm
Mount	C-mount	
Weight (with coaxial type)	62g	
Weight (straight type)	57g	

### ALN-TEC-MO865MPC



### ALN-TEC-MO865MP



\* 1 : Theoretical resolution calculated with a wavelength of 550nm  
 \* 2 : Value calculated with a permissible circle of confusion of 40 $\mu$ m

**WD-65mm**

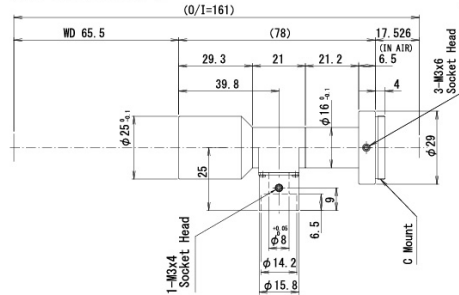
**ALN-TEC-M1065MPC / ALN-TEC-M1065MP**



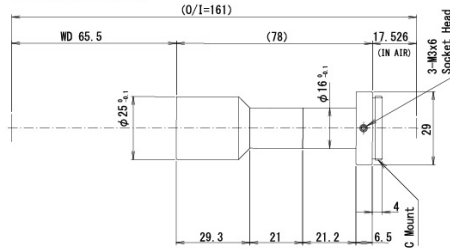
Model (with coaxial type)	ALN-TEC-M1065MPC
Model (straight type)	ALN-TEC-M1065MP
Format	2/3" φ 11mm
Magnification	1x
Working Distance	65.5mm
Resolving Power *1	6.7μm
Depth of Field *2	0.79mm
NA	0.05
Effective F number	9.8
TV Distortion	-0.022%

Field of View	2/3inch	8.8 x 6.6mm
	1/1.8inch	7.18 x 5.32mm
	1/2inch	6.4 x 4.8mm
Mount	1/3inch	4.8 x 3.6mm
		C-mount
Weight (with coaxial type)		54g
Weight (straight type)		49g

ALN-TEC-M1065MPC



ALN-TEC-M1065MP



**WD-110mm**

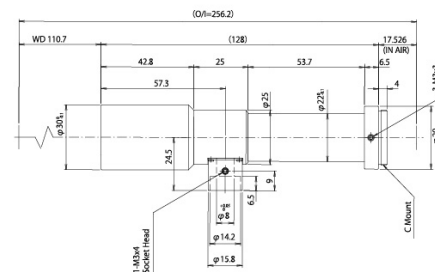
**ALN-TEC-M05110MPC / ALN-TEC-M05110MP**



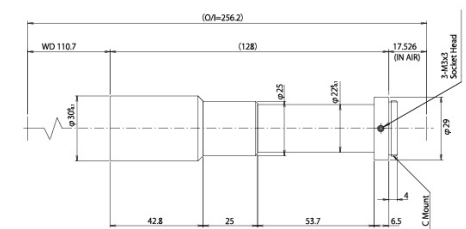
Model (with coaxial type)	ALN-TEC-M05110MPC
Model (straight type)	ALN-TEC-M05110MP
Format	2/3" φ 11mm
Magnification	1.5x
Working Distance	110.7mm
Resolving Power *1	5.2μm
Depth of Field *2	0.42mm
NA	0.064
Effective F number	11.5
TV Distortion	0.031%

Field of View	2/3inch	5.87 x 4.4mm
	1/1.8inch	4.79 x 3.55mm
	1/2inch	4.27 x 3.2mm
Mount	1/3inch	3.2 x 2.4mm
		C-mount
Weight (with coaxial type)		110g
Weight (straight type)		108g

ALN-TEC-M05110MPC



ALN-TEC-M05110MP



**WD-65mm**

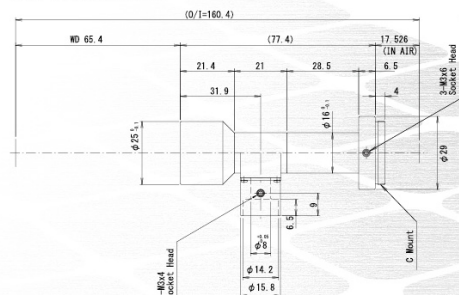
**ALN-TEC-M2065MPC / ALN-TEC-M2065MP**



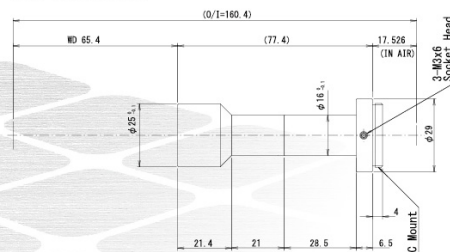
Model (with coaxial type)	ALN-TEC-M2065MPC
Model (straight type)	ALN-TEC-M2065MP
Format	2/3" φ 11mm
Magnification	2x
Working Distance	65.4mm
Resolving Power *1	4.4μm
Depth of Field *2	0.26mm
NA	0.076
Effective F number	12.8
TV Distortion	0.020%

Field of View	2/3inch	4.4 x 3.3mm
	1/1.8inch	3.59 x 2.66mm
	1/2inch	3.2 x 2.4mm
Mount	1/3inch	2.4 x 1.8mm
		C-mount
Weight (with coaxial type)		55g
Weight (straight type)		49g

ALN-TEC-M2065MPC



ALN-TEC-M2065MP



\* 1 : Theoretical resolution calculated with a wavelength of 550nm  
 \* 2 : Value calculated with a permissible circle of confusion of 40μm

**WD-110mm**

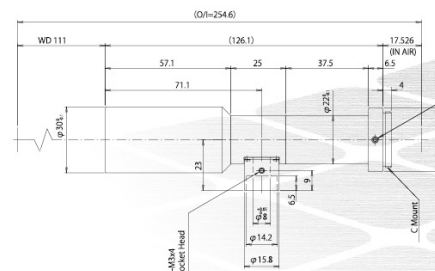
**ALN-TEC-M08110MPC / ALN-TEC-M08110MP**



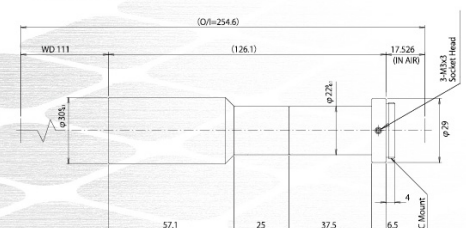
Model (with coaxial type)	ALN-TEC-M08110MPC
Model (straight type)	ALN-TEC-M08110MP
Format	2/3" φ 11mm
Magnification	0.8x
Working Distance	111mm
Resolving Power *1	8.8μm
Depth of Field *2	1.31mm
NA	0.038
Effective F number	10.2
TV Distortion	-0.027%

Field of View	2/3inch	11 x 8.25mm
	1/1.8inch	8.97 x 6.65mm
	1/2inch	8 x 6mm
Mount	1/3inch	6 x 4.5mm
		C-mount
Weight (with coaxial type)		106g
Weight (straight type)		103g

ALN-TEC-M08110MPC



ALN-TEC-M08110MP









# NEW Tunnel-Type Lights



## Outline

Using tunnel-shaped reflective surfaces can evenly diffuse the light, providing clearer edge imaging for uneven-shaped objects with high reflectivity.

## Feature

1. Inspection of scratches detection and uneven surfaces.
2. Designed for automated handling and inspection on conveyor belts using robotic arms.

## Major Applications

1. Robotic arm operation and inspection.
2. IC component tray mixing and OCR inspection.
3. Appearance defect detection for blister-packed pills.
4. Surface defect detection for metal fasteners and stamped parts.

## Model explanation



## Imaging examples



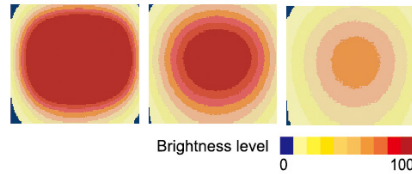
GL-DOC520518W-24

## Available Models

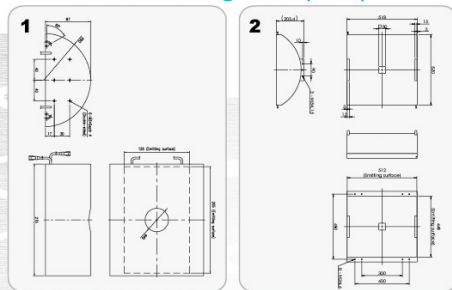
Model	Color	Power Consumption	Weight (g)	Dimension
NEW GL-DOC215180R-24	●	24V/11.6W		
NEW GL-DOC215180W/B/G-24	○ ● ●	24V/17.3W	935	1
NEW GL-DOC215180IR-24	●	24V/11.6W		
GL-DOC520518R-24	●	24V/57.6W		
GL-DOC520518W/B/G-24	○ ● ●	24V/86.4W	4862	2
GL-DOC520518IR-24	●	24V/57.6W		

## Luminous intensity distribution characteristics

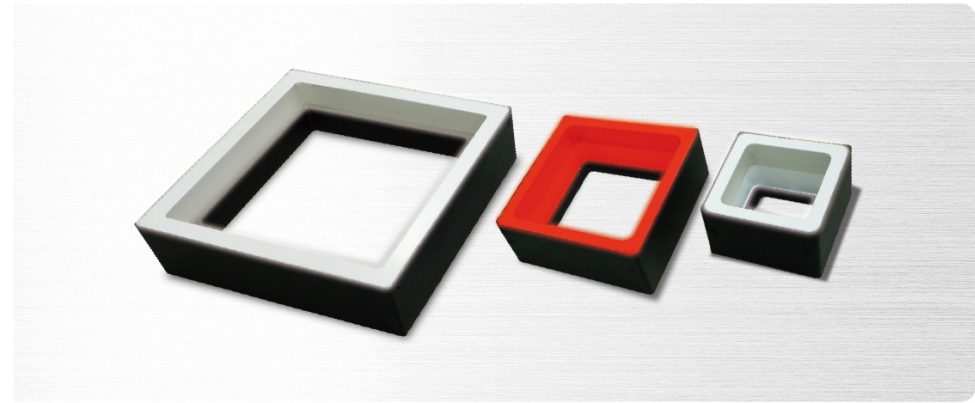
Illuminate Height:5CM,10CM,15CM



## Dimensional Diagrams(mm)



# Low Angle Square Lights



## Outline

The diffused light emitted by the square low-angle oblique light can be used to solve the problem that the ring light source cannot illuminate the contours of the four corners.

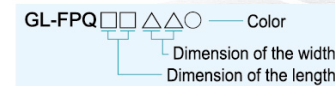
## Feature

1. Provide lighting evenly from top.
2. Provide shadowless illumination from the four angles.
3. Ability to evenly diffused inspection and provide shadowless lighting with diffuser
4. Best choice of square inspection objectives.

## Major applications

1. IC wafer inspection & substrate part inspection
2. Inspection from the side and to emerge from internal surfaces of object for stain
3. Visual inspection of wafers
4. Solder inspection & connector pitch inspection

## Model explanation

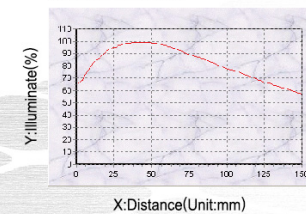


## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-FPQ4848R-24	●	24V/1.5W		
GL-FPQ4848W/B/G-24	○ ● ●	24V/2.0W	50	1
GL-FPQ4848IR-24	●	24V/1.5W		
GL-FPQ7575R-24	●	24V/2.4W		
GL-FPQ7575W/B/G-24	○ ● ●	24V/3.4W	92	2
GL-FPQ7575IR-24	●	24V/2.4W		
GL-FPQ9696W/B/G-24	○ ● ●	24V/3.3W	103	3
GL-FPQ142142W/B/G-24	○ ● ●	24V/5.3W	154	4
GL-FPQ152152R-24	●	24V/4.8W		
GL-FPQ152152W/B/G-24	○ ● ●	24V/7.2W	258	5
GL-FPQ152152IR-24	●	24V/4.8W		

## Luminous intensity distribution characteristics

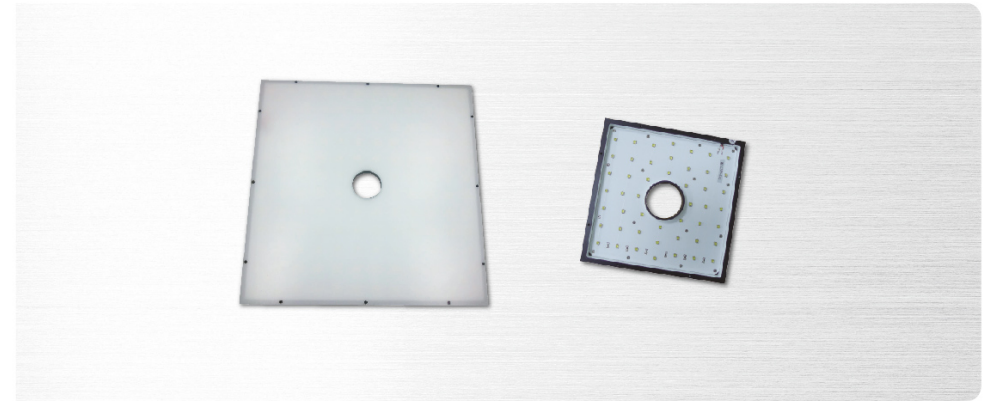
GL-FPQ152152W Graph



Illuminate Height:5CM,10CM,15CM



# Flat Square Lights



## Outline

With hollow design, diffused light is evenly radiated in the coaxial direction with the camera.

## Feature

1. Not suitable for background light sources.
2. Applicable to the measured object of a wide range of appearance and large size.

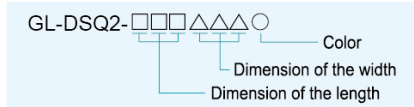
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DSQ2-150150R-24	●	24V/17.28W	404	1
GL-DSQ2-150150W/B/G-24	○ ● ●	24V/21.6W		
GL-DSQ2-208208R-24	●	24V/28.8W	783	2
GL-DSQ2-208208W/B/G-24	○ ● ●	24V/43.2W		
GL-DSQ2-300300R-24	●	24V/51.84W	1457	3
GL-DSQ2-300300W/B/G-24	○ ● ●	24V/77.76W		

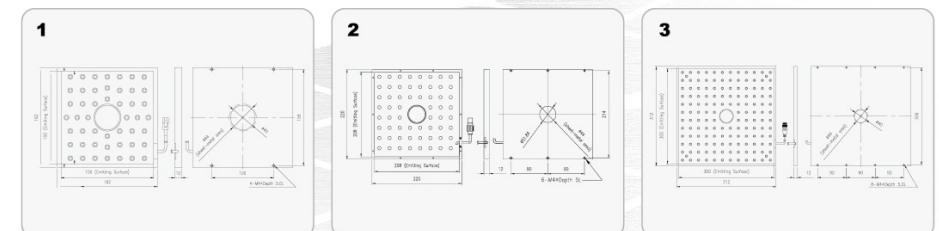
## Major applications

1. Robotic arms, e.g., motor parts spot welding and placing wafer.
2. Multiple outline inspection.

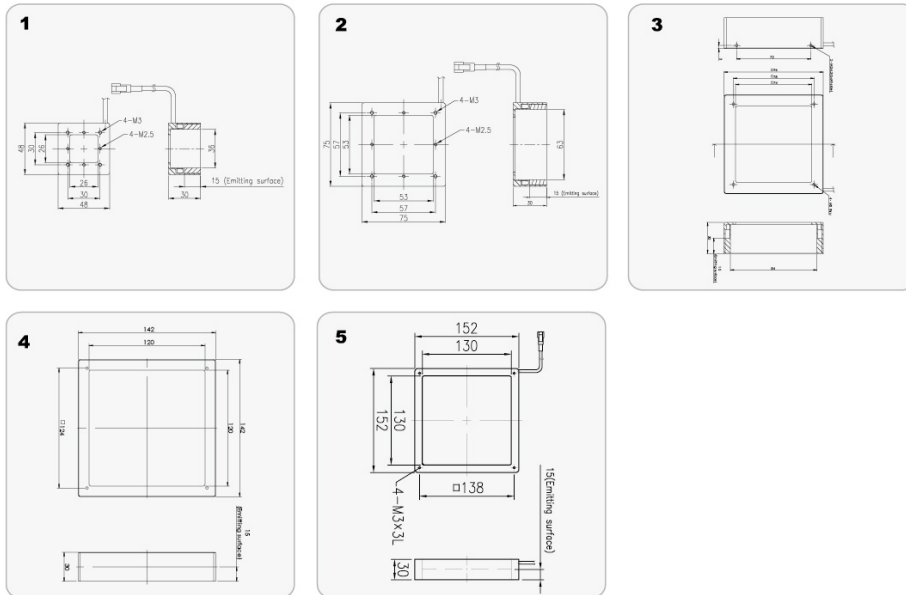
## Model explanation



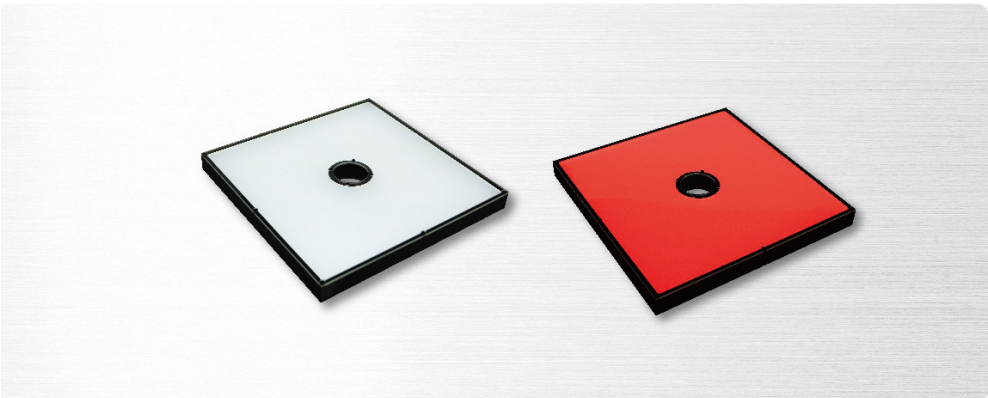
## Dimensional Diagrams(mm)



## Dimensional Diagrams(mm)



# High Directivity Square Lights



## Outline

The square planar light is combined with the hollow design to uniformly irradiate high-directional light in the direction coaxial with the camera.

## Feature

1. Equipped with a high-directivity optical mode, it can suppress the diffusion of light. Its illumination is twice more than DSQ2.
2. DDSQ makes the object's outline edge contrast clear.
3. No blurred gray scale gradients affect the focus, causing misjudgment and affecting accuracy.
4. Suitable for the detection of objects with a wide range of appearance and large size.

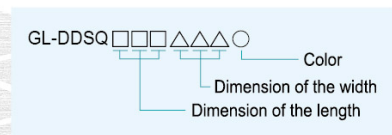
## Major applications

1. Robots, ex: motor parts spot welding, placing wafer.
2. Multiple outline inspection.

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DDSQ150150R-24	●	24V/11.8W		
GL-DDSQ150150WB/G-24	○ ● ●	24V/14.7W	404	1
GL-DDSQ150150IR-24	●	24V/11.8W		
GL-DDSQ208208R-24	●	24V/28.8W		
GL-DDSQ208208WB/G-24	○ ● ●	24V/35.3W	783	2
GL-DDSQ208208IR-24	●	24V/28.8W		
GL-DDSQ300300R-24	●	24V/52W		
GL-DDSQ300300WB/G-24	○ ● ●	24V/63.4W	1457	3
GL-DDSQ300300IR-24	●	24V/52W		

## Model explanation



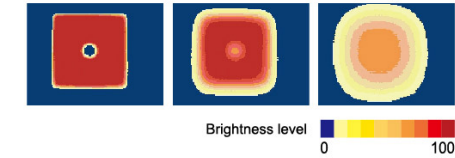
## Imaging examples



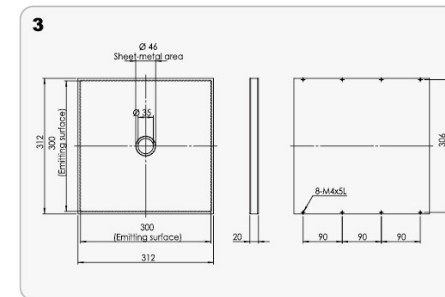
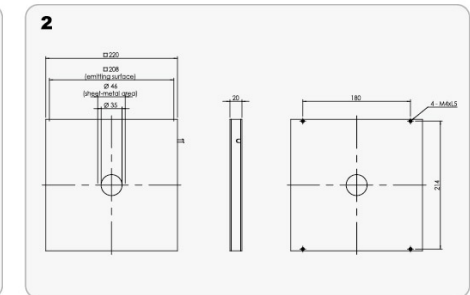
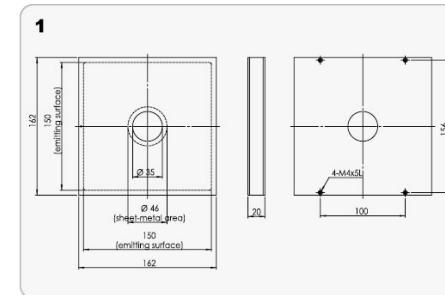
GL-DDSQ208208W-24

## Luminous intensity distribution characteristics

Illuminate Height : 0CM, 3CM, 10CM

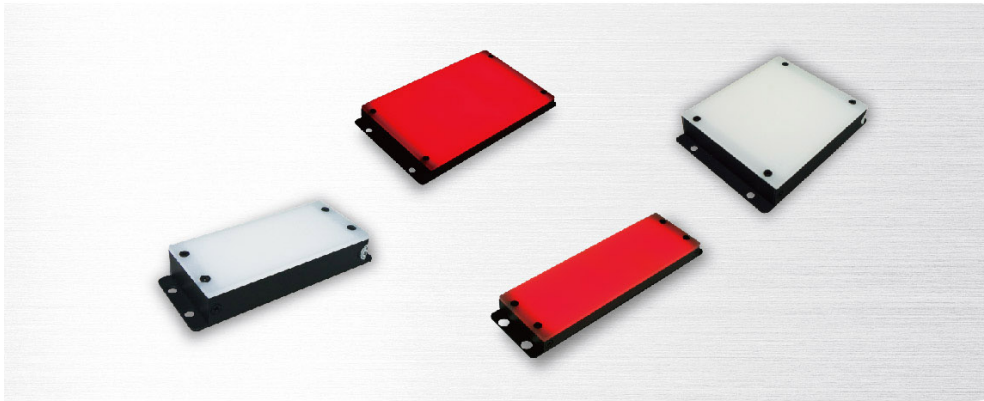


## Dimensional Diagrams(mm)





# Backlights



## Outline

Ability to diffuse light evenly, made with 30mm×30mm & 45mm×45mm modules.

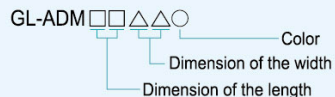
## Feature

1. Dimensional measurement accuracy up to 50-70µm.
2. Provide 222 types of models to meet customers' needs.
3. Inspection of dimensional measurement and edge detection.

## Major applications

1. Exterior visual inspection for electronic parts
2. Lead frame inspection
3. Inspection of transparent object for stain and other particles
4. Omnigenous outline observations
5. Inspection in bend lead for GFPS, QSPs, and SOPs

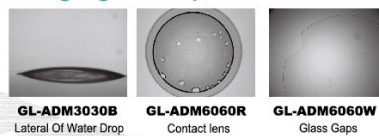
## Model explanation



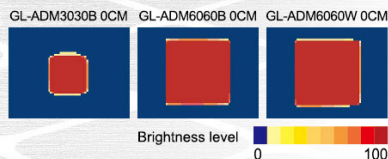
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-ADM3030R-24	●	24V/1.44W		1
GL-ADM3030W/B/G-24	○ ● ●	24V/2.4W	30	2
GL-ADM3030IR-24	●	24V/1.44W		1
GL-ADM3060R-24	●	24V/2.88W		3
GL-ADM3060W/B/G-24	○ ● ●	24V/4.8W	45	4
GL-ADM3060IR-24	●	24V/2.88W		3
GL-ADM3090R-24	●	24V/4.32W		5
GL-ADM3090W/B/G-24	○ ● ●	24V/7.2W	60	6
GL-ADM3090IR-24	●	24V/4.32W		5
GL-ADM30120R-24	●	24V/5.76W	74	7
GL-ADM30120W/B/G-24	○ ● ●	24V/9.6W	82	8
GL-ADM30120IR-24	●	24V/5.76W	74	7

## Imaging examples

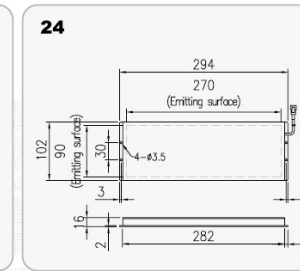
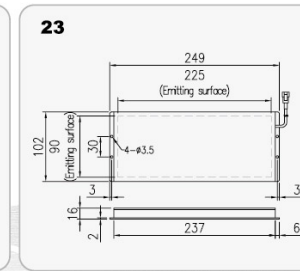
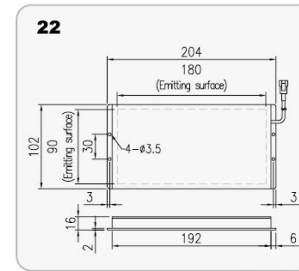
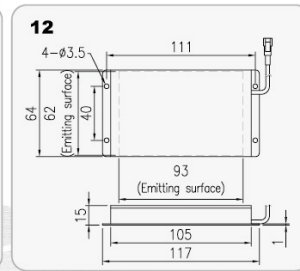
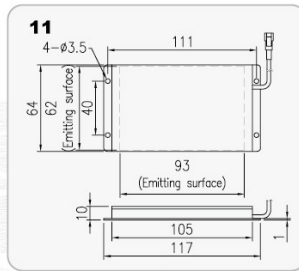
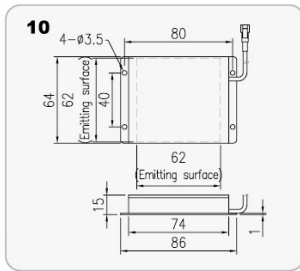
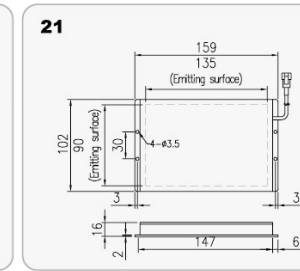
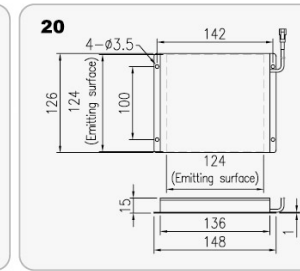
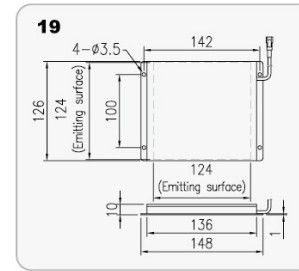
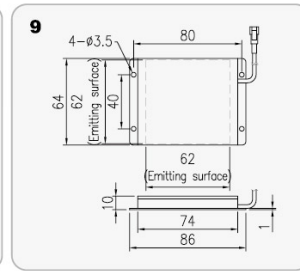
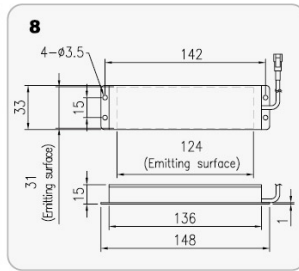
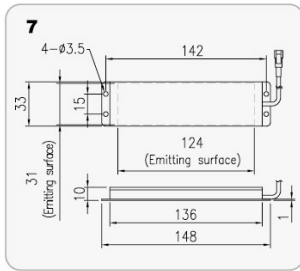
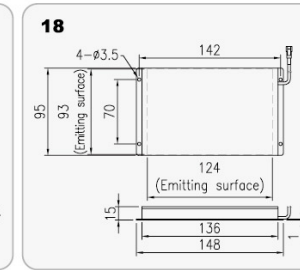
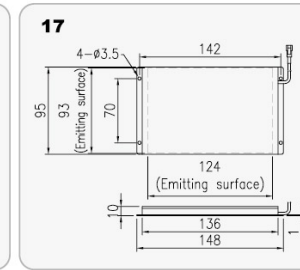
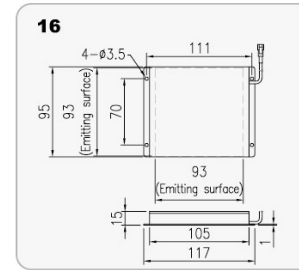
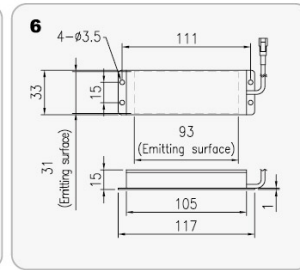
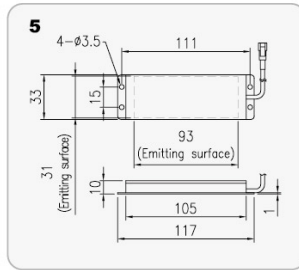
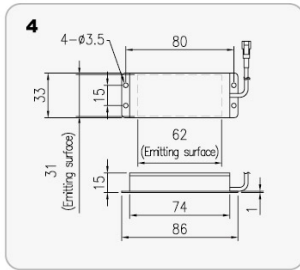
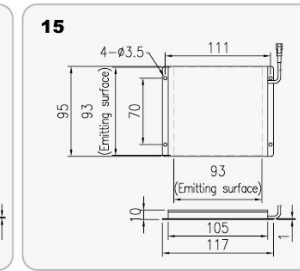
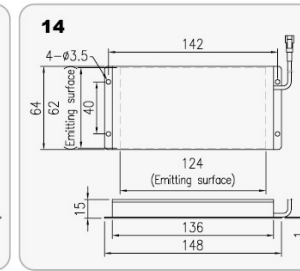
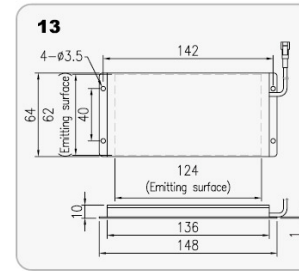
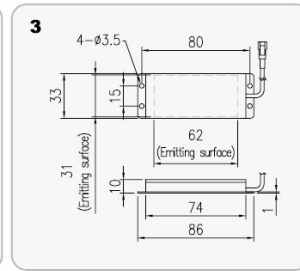
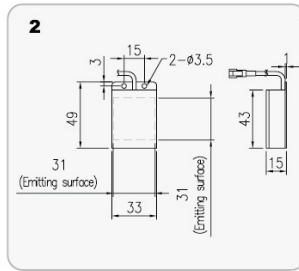
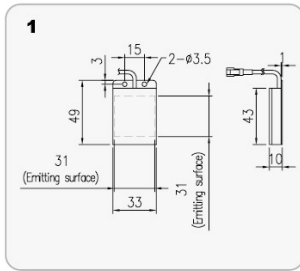


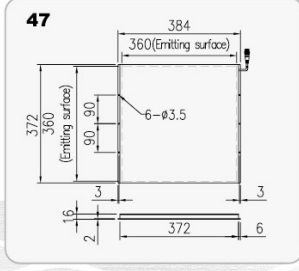
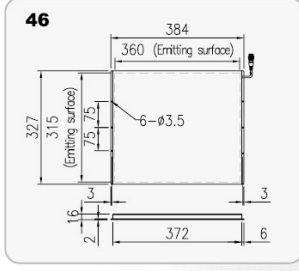
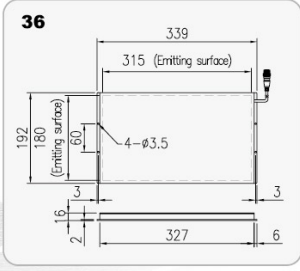
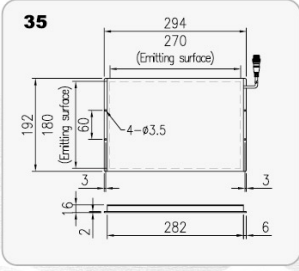
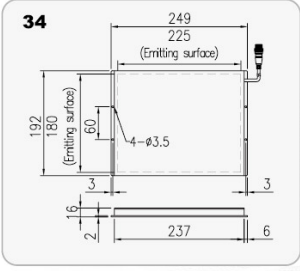
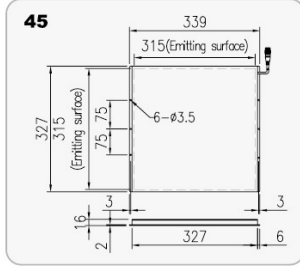
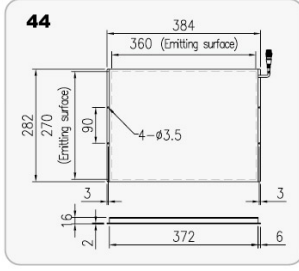
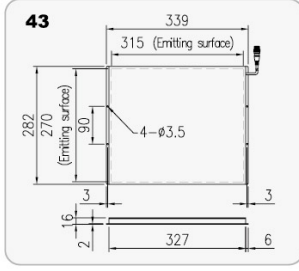
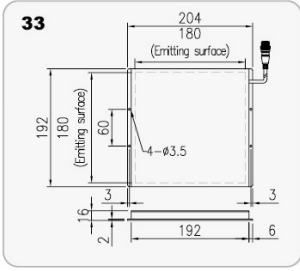
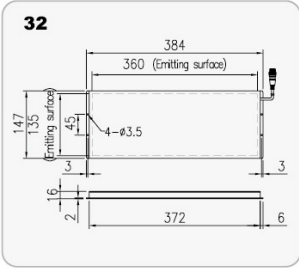
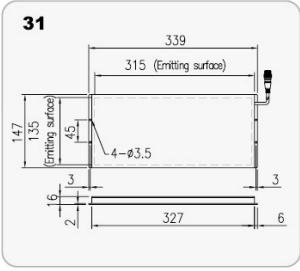
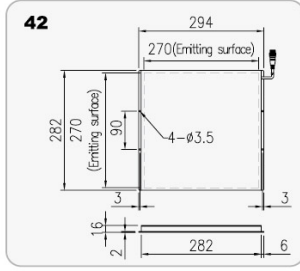
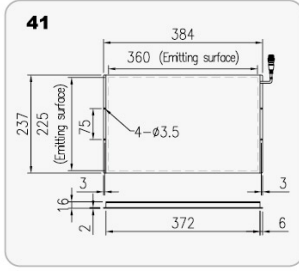
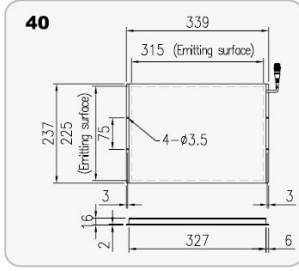
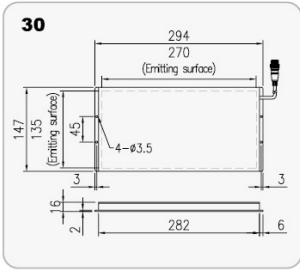
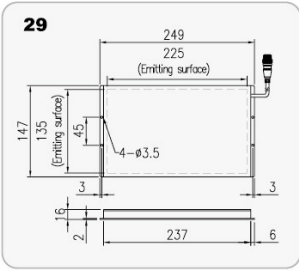
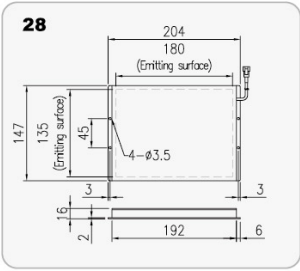
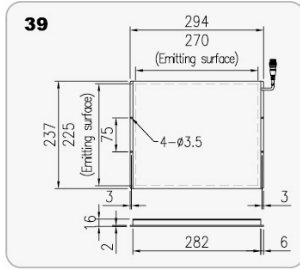
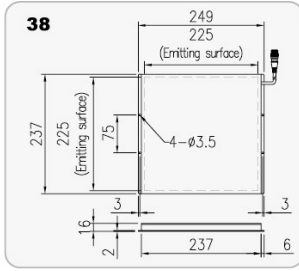
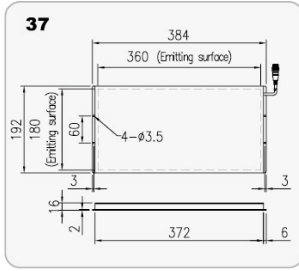
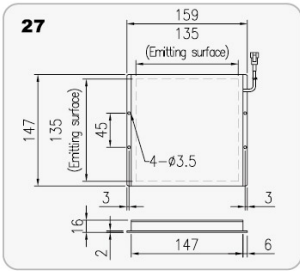
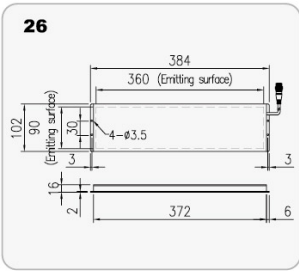
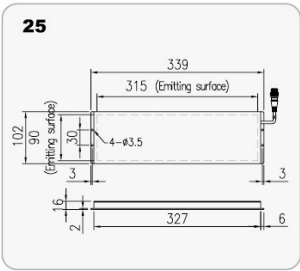
## Luminous intensity distribution characteristics



Model	Color	Power Consumption	Weight (g)	Dimension	Model	Color	Power Consumption	Weight (g)	Dimension
GL-ADM6060R-24	●	24V/5.76W		9	GL-ADM135360R-24	●	24V/40.4W		
GL-ADM6060W/B/G-24	○ ● ●	24V/9.6W	60	10	GL-ADM135360W/B/G-24	○ ● ●	24V/56.5W	1263	32
GL-ADM6060IR-24	●	24V/5.76W		9	GL-ADM135360IR-24	●	24V/40.4W		
GL-ADM6090R-24	●	24V/8.64W		11	GL-ADM180180R-24	●	24V/26.9W		
GL-ADM6090W/B/G-24	○ ● ●	24V/14.4W	110	12	GL-ADM180180W/B/G-24	○ ● ●	24V/37.7W	842	33
GL-ADM6090IR-24	●	24V/8.64W		11	GL-ADM180180IR-24	●	24V/26.9W		
GL-ADM60120R-24	●	24V/11.52W	136	13	GL-ADM180225R-24	●	24V/33.6W		
GL-ADM60120W/B/G-24	○ ● ●	24V/19.2W	149	14	GL-ADM180225W/B/G-24	○ ● ●	24V/47.1W	867	34
GL-ADM60120IR-24	●	24V/11.52W	136	13	GL-ADM180225IR-24	●	24V/33.6W		
GL-ADM9090R-24	●	24V/12.96W		15	GL-ADM180270R-24	●	24V/40.4W		
GL-ADM9090W/B/G-24	○ ● ●	24V/21.6W	160	16	GL-ADM180270W/B/G-24	○ ● ●	24V/56.4W	1053	35
GL-ADM9090IR-24	●	24V/12.96W		15	GL-ADM180270IR-24	●	24V/40.4W		
GL-ADM90120R-24	●	24V/17.28W	197	17	GL-ADM180315R-24	●	24V/47.1W		
GL-ADM90120W/B/G-24	○ ● ●	24V/28.8W	216	18	GL-ADM180315W/B/G-24	○ ● ●	24V/65.9W	1473	36
GL-ADM90120IR-24	●	24V/17.28W	197	17	GL-ADM180315IR-24	●	24V/47.1W		
GL-ADM120120R-24	●	24V/23.04W	260	19	GL-ADM180360R-24	●	24V/53.8W		
GL-ADM120120W/B/G-24	○ ● ●	24V/38.4W	283	20	GL-ADM180360W/B/G-24	○ ● ●	24V/75.3W	1684	37
GL-ADM120120IR-24	●	24V/23.04W	260	19	GL-ADM180360IR-24	●	24V/53.8W		
GL-ADM90135R-24	●	24V/10.1W			GL-ADM225225R-24	●	24V/42.0W		
GL-ADM90135W/B/G-24	○ ● ●	24V/14.2W	316	21	GL-ADM225225W/B/G-24	○ ● ●	24V/58.9W	1315	38
GL-ADM90135IR-24	●	24V/10.1W			GL-ADM225225IR-24	●	24V/42.0W		
GL-ADM90180R-24	●	24V/13.5W			GL-ADM225270R-24	●	24V/50.5W		
GL-ADM90180W/B/G-24	○ ● ●	24V/18.9W	349	22	GL-ADM225270W/B/G-24	○ ● ●	24V/70.6W	1578	39
GL-ADM90180IR-24	●	24V/13.5W			GL-ADM225270IR-24	●	24V/50.5W		
GL-ADM90180IR940-24	●	24V/13.44W	310		GL-ADM225315R-24	●	24V/58.9W		
GL-ADM90225R-24	●	24V/16.9W			GL-ADM225315W/B/G-24	○ ● ●	24V/82.4W	1841	40
GL-ADM90225W/B/G-24	○ ● ●	24V/23.6W	526	23	GL-ADM225315IR-24	●	24V/58.9W		
GL-ADM90225IR-24	●	24V/16.9W			GL-ADM225360R-24	●	24V/67.2W		
GL-ADM90270R-24	●	24V/20.2W			GL-ADM225360W/B/G-24	○ ● ●	24V/94.1W	2104	41
GL-ADM90270W/B/G-24	○ ● ●	24V/28.3W	631	24	GL-ADM225360IR-24	●	24V/67.2W		
GL-ADM90270IR-24	●	24V/20.2W			GL-ADM270270R-24	●	24V/60.5W		
GL-ADM90315R-24	●	24V/23.6W			GL-ADM270270W/B/G-24	○ ● ●	24V/84.7W	1894	42
GL-ADM90315W/B/G-24	○ ● ●	24V/33.0W	736	25	GL-ADM270270IR-24	●	24V/60.5W		
GL-ADM90315IR-24	●	24V/23.6W			GL-ADM270315R-24	●	24V/70.6W		
GL-ADM90360R-24	●	24V/26.9W			GL-ADM270315W/B/G-24	○ ● ●	24V/98.8W	2210	43
GL-ADM90360W/B/G-24	○ ● ●	24V/37.7W	842	26	GL-ADM270315IR-24	●	24V/70.6W		
GL-ADM90360IR-24	●	24V/26.9W			GL-ADM270360R-24	●	24V/80.7W		
GL-ADM135135R-24	●	24V/15.2W			GL-ADM270360W/B/G-24	○ ● ●	24V/112.9W	2524	44
GL-ADM135135W/B/G-24	○ ● ●	24V/21.2W	330	27	GL-ADM270360IR-24	●	24V/80.7W		
GL-ADM135135IR-24	●	24V/15.2W			GL-ADM315315R-24	●	24V/82.4W		
GL-ADM135180R-24	●	24V/20.2W			GL-ADM315315W/B/G-24	○ ● ●	24V/115.3W	2578	45
GL-ADM135180W/B/G-24	○ ● ●	24V/28.3W	420	28	GL-ADM315315IR-24	●	24V/82.4W		
GL-ADM135180IR-24	●	24V/20.2W			GL-ADM315360R-24	●	24V/94.1W		
GL-ADM135225R-24	●	24V/25.2W			GL-ADM315360W/B/G-24	○ ● ●	24V/131.8W	2946	46
GL-ADM135225W/B/G-24	○ ● ●	24V/35.3W	789	29	GL-ADM315360IR-24	●	24V/94.1W		
GL-ADM135225IR-24	●	24V/25.2W			GL-ADM360360R-24	●	24V/107.6W		
GL-ADM135270R-24	●	24V/30.3W			GL-ADM360360W/B/G-24	○ ● ●	24V/150.6W	3366	47
GL-ADM135270W/B/G-24	○ ● ●	24V/42.4W	947	30	GL-ADM360360IR-24	●	24V/107.6W		
GL-ADM135270IR-24	●	24V/30.3W							
GL-ADM135315R-24	●	24V/35.3W							
GL-ADM135315W/B/G-24	○ ● ●	24V/49.4W	1105	31					
GL-ADM135315IR-24	●	24V/35.3W							

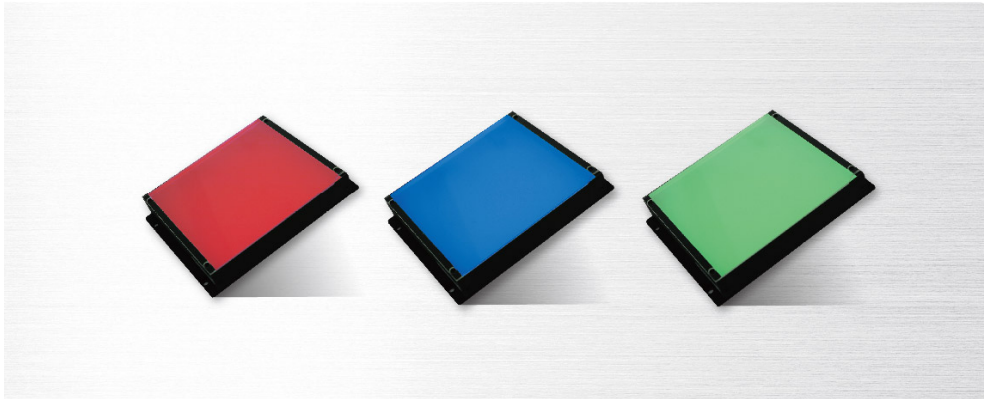
## Dimensional Diagrams(mm)







# High Directivity Backlights



## Outline

The thin flat surface emits high-directivity light evenly.

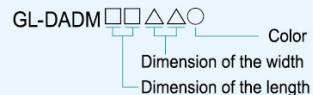
## Feature

1. Dimensional measurement accuracy up to 10 $\mu$ m.
2. Equipped with a high-directivity optical mode, it can suppress the diffusion of light and achieve high-directivity illumination.
3. The brightness is greatly improved and high-speed detection is applicable.
4. Suitable for dimensional measurement.

## Applications

1. Exterior visual inspection for electronic parts
2. Lead frame inspection
3. Inspection of transparent object from stain and other particles
4. Omnigenous outline observations
5. Inspection in bend lead for GFPS, QSPs, and SOPs

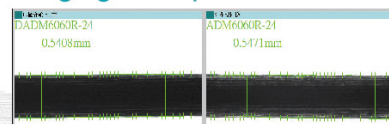
## Model explanation



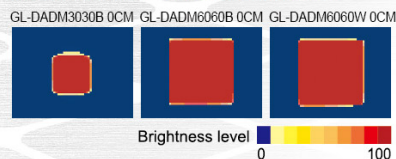
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DADM3030R-24	●	24V/1.44W		
GL-DADM3030W/B/G-24	○ ● ●	24V/1.86W	30	1
GL-DADM3030IR-24	●	24V/1.44W		
GL-DADM6060R-24	●	24V/4.1W		
GL-DADM6060W/B/G-24	○ ● ●	24V/5.3W	60	2
GL-DADM6060IR-24	●	24V/4.1W		
GL-DADM9090R-24	●	24V/9.2W		
GL-DADM9090W/B/G-24	○ ● ●	24V/9.4W	160	3
GL-DADM9090IR-24	●	24V/9.2W		
GL-DADM120120R-24	●	24V/16.4W	260	
GL-DADM120120W/B/G-24	○ ● ●	24V/21.2W	283	4
GL-DADM120120IR-24	●	24V/16.4W	260	

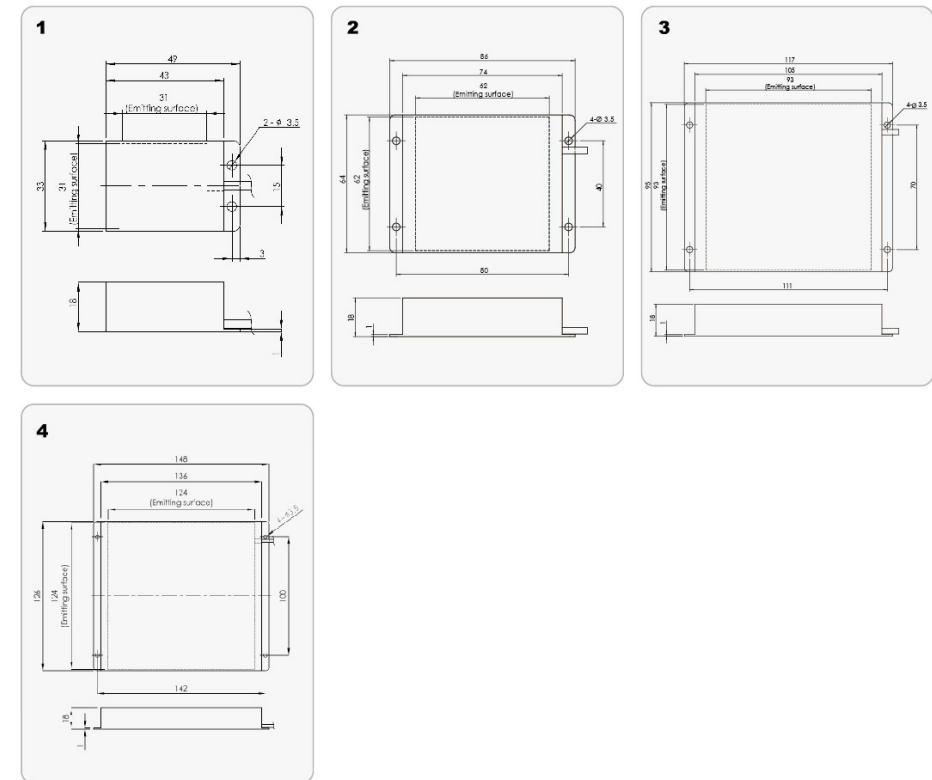
## Imaging examples



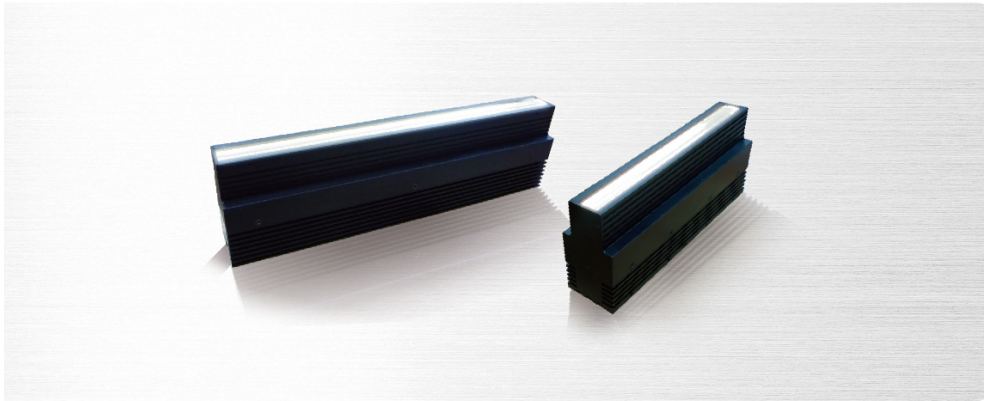
## Luminous intensity distribution characteristics



## Dimensional Diagrams(mm)



# High Intensity Line Lights



## Outline

Natural air-cooling method. Unique design prevents light diffusion. Made with 100mm modules.

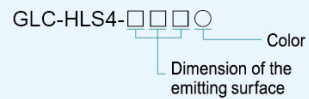
## Feature

1. Standard length is 200mm-1000mm; customization is available.
2. Diffusion plates are available. Can be used as backlight.
3. Inspection of scratches detection and uneven surfaces.

## Application

Inspection for easily reflective objects such as wafers, metal surfaces, film rolls, liquid crystals and glass.

## Model explanation

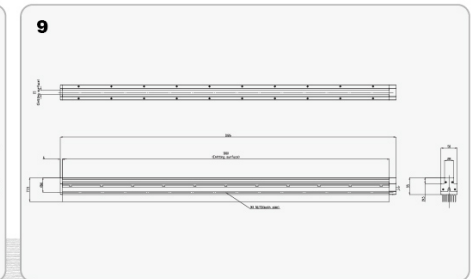
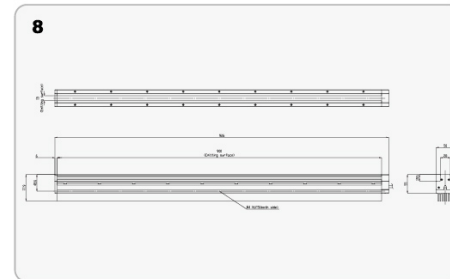
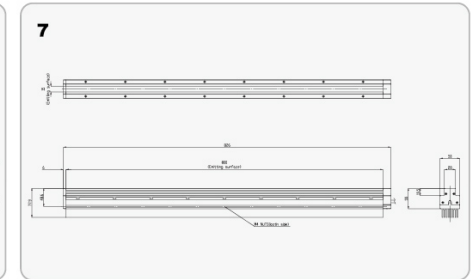
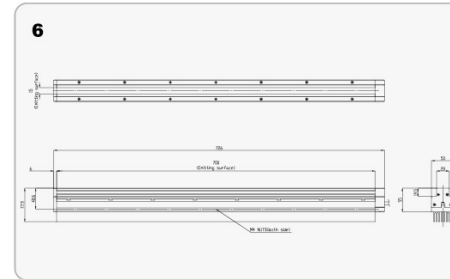
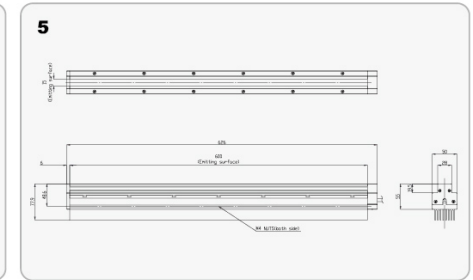
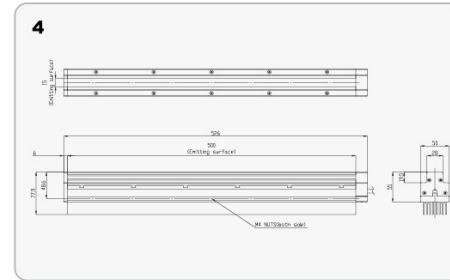
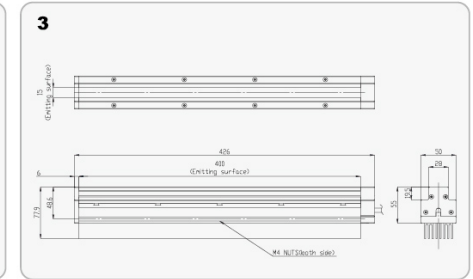
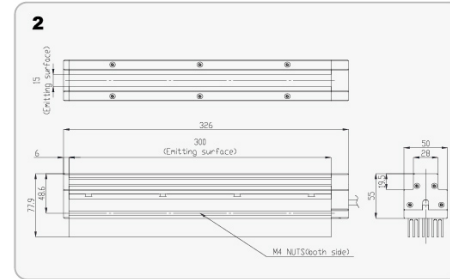
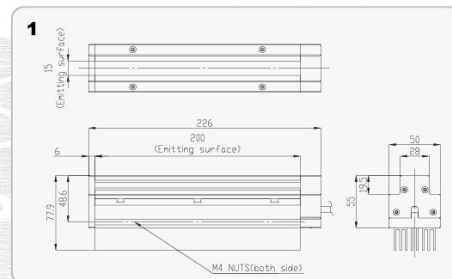


## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-HLS4-200W	○	1A/36.2W	1113	1
GL-HLS4-300W	○	1.5A/54.3W	1649	2
GL-HLS4-400W	○	2A/72.4W	2150	3
GL-HLS4-500W	○	2.5A/90.5W	2650	4
GL-HLS4-600W	○	3A/108.6W	3150	5
GL-HLS4-700W	○	3.5A/126.7W	3650	6
GL-HLS4-800W	○	4A/144.8W	4150	7
GL-HLS4-900W	○	4.5A/162.9W	4650	8
GL-HLS4-1000W	○	5A/181.0W	5150	9

PS: Dimmer for GL-HLS4 series is on P101.

## Dimensional Diagrams(mm)



# Air-Cooling High Intensity Line Lights



## Outline

Pressed air-cooling method. Unique design prevents light diffusion. Made with 200mm & 300mm modules.

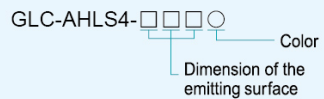
## Feature

1. Standard length is 200mm-1000mm; customization is available.
2. Its illumination, over 1M Lux, is 2.5 times higher than High Intensity Line Light series.
3. Built-in temperature detection, over 70°C to activate the power off.
4. Can be used as backlight with diffusion plate.
5. Suitable for surface scratch detection.

## Application

1. Inspection of Wafers
2. Metal Surface
3. Rolls and Prints
4. LCD glass

## Model explanation

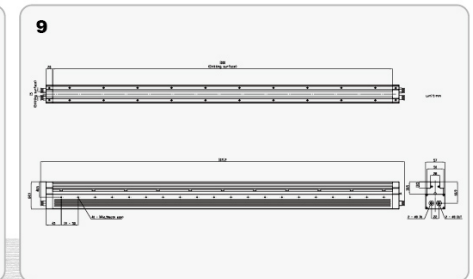
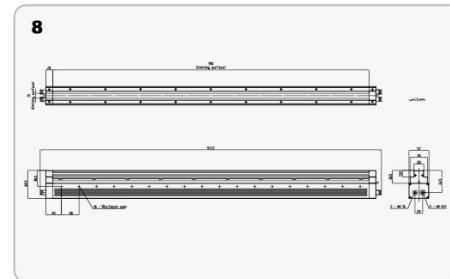
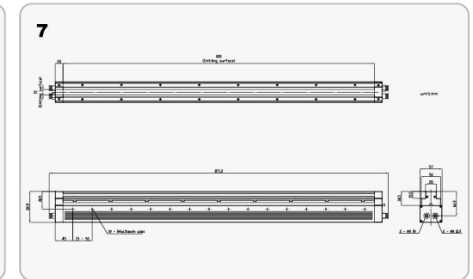
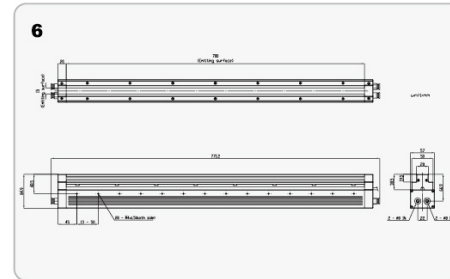
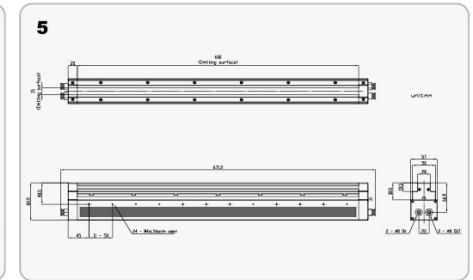
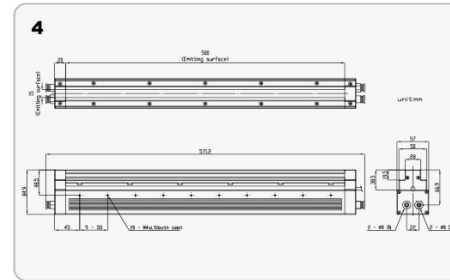
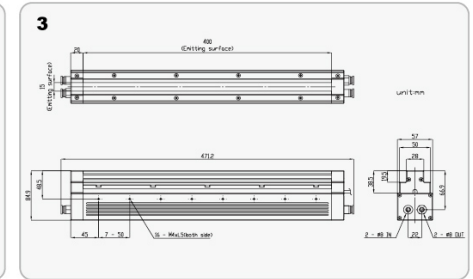
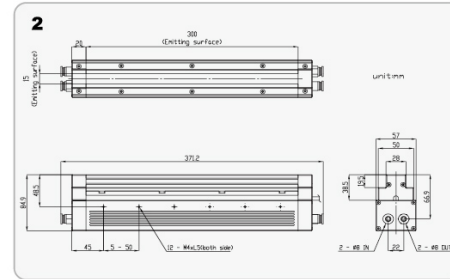
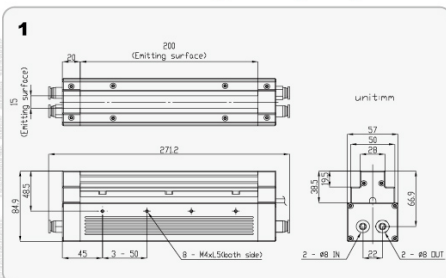


## Available Models

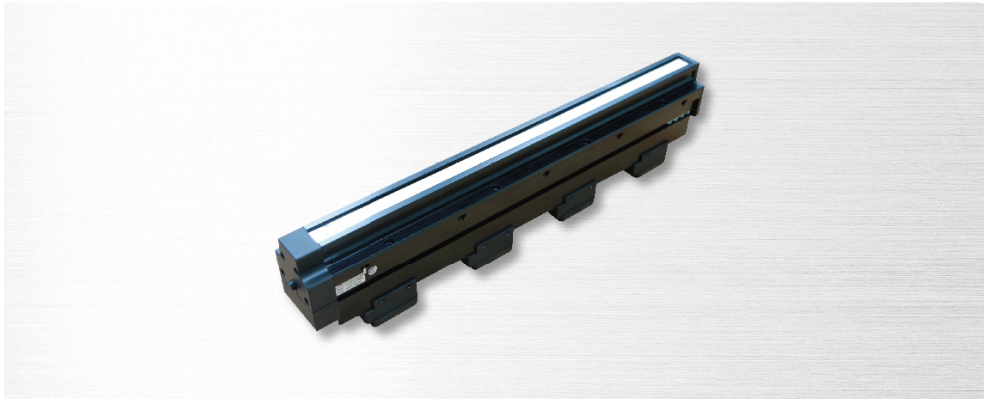
Model	Color	Power Consumption	Weight (g)	Dimension
GL-AHLS4-200W	○	2A/71.5W	1951	1
GL-AHLS4-300W	○	3A/107.3W	2451	2
GL-AHLS4-400W	○	4A/143.0W	2951	3
GL-AHLS4-500W	○	5A/178.8W	3451	4
GL-AHLS4-600W	○	6A/214.5W	3951	5
GL-AHLS4-700W	○	7A/250.3W	4451	6
GL-AHLS4-800W	○	8A/286.0W	4951	7
GL-AHLS4-900W	○	9A/321.8W	5421	8
GL-AHLS4-1000W	○	10A/357.5W	5521	9

PS: Dimmer for GL-AHLS4 series is on P101.

## Dimensional Diagrams(mm)



# Fan-Cooling High Intensity Line Lights



## Outline

Fan-cooling method. Unique design prevents light diffusion. Made with 200mm & 300mm modules.

## Feature

1. Standard length is 200mm-1000mm ; customization is available.
2. Its illumination, over 1 M Lux, is 2.5 times higher than High Intensity Line Light series.
3. Built-in temperature detection, over 70°C to activate the power off.
4. Can be used as backlight with diffusion plate.
5. Suitable for surface scratch detection.

## Major applications

1. Inspection of Wafers
2. Metal surfaces.
3. Rolls and Prints
4. LCD glass.

## Model explanation

GL-FHLS4-□□□

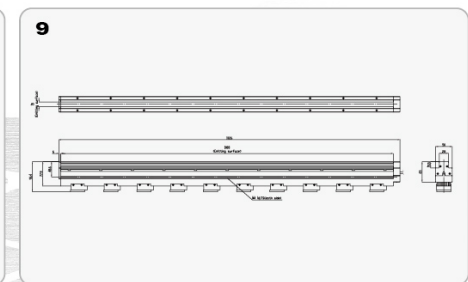
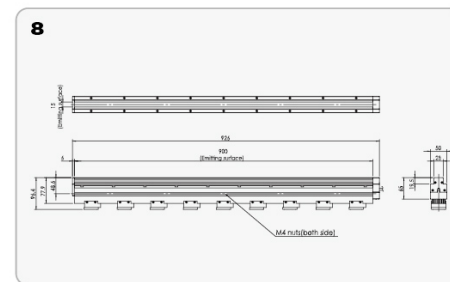
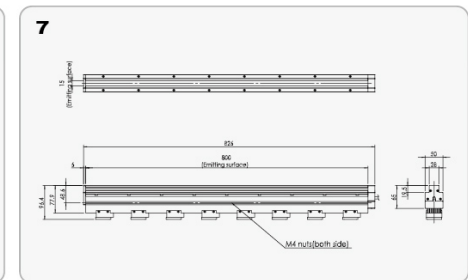
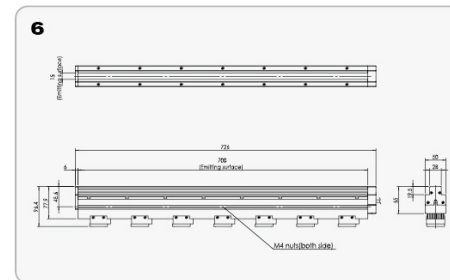
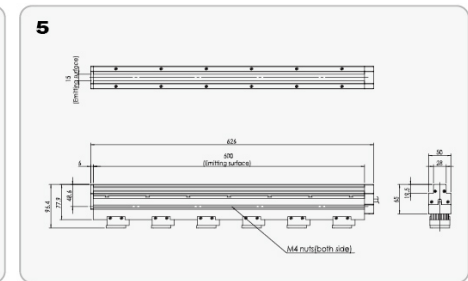
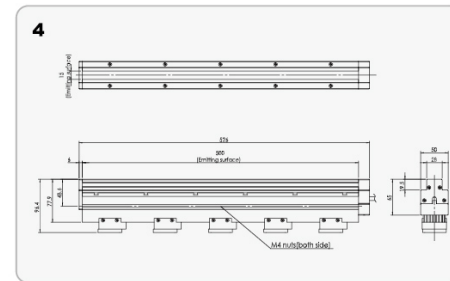
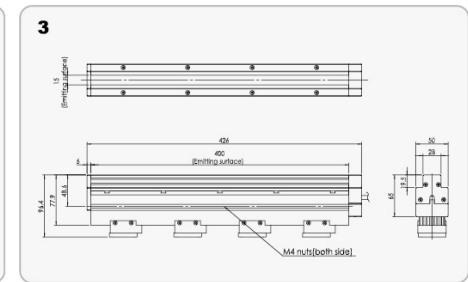
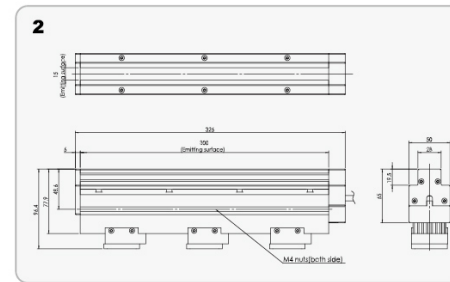
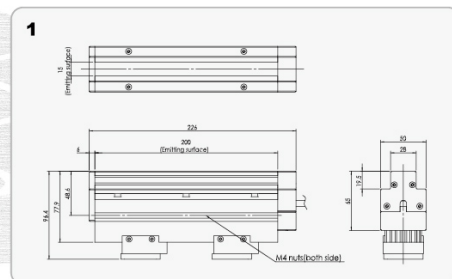
Dimension of the emitting surface

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-FHLS4-200W	○	2.0A/71.5W	982	1
GL-FHLS4-300W	○	3.0A/107.3W	1389	2
GL-FHLS4-400W	○	4.0A/143.0W	1796	3
GL-FHLS4-500W	○	5.0A/178.8W	2203	4
GL-FHLS4-600W	○	6.0A/214.5W	2610	5
GL-FHLS4-700W	○	7.0A/250.3W	3017	6
GL-FHLS4-800W	○	8.0A/286.0W	3424	7
GL-FHLS4-900W	○	9.0A/321.8W	3831	8
GL-FHLS4-1000W	○	10.0A/357.5W	4238	9

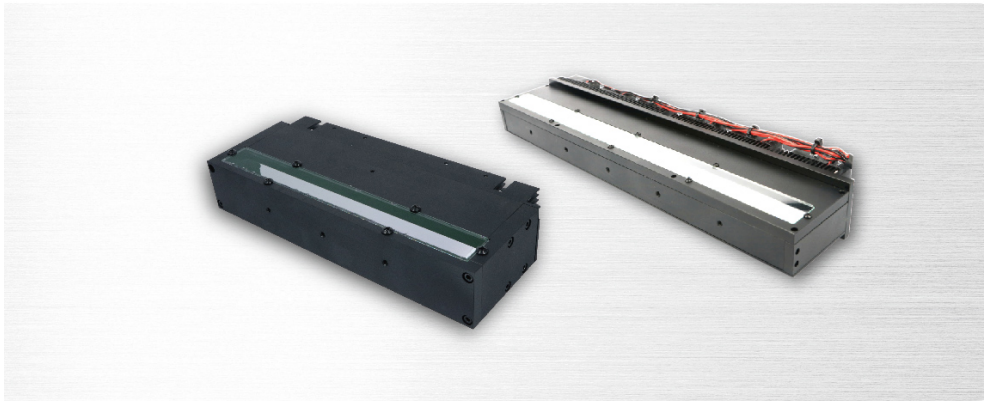
PS: Dimmer for GL-FHLS4 series is on P101.

## Dimensional Diagrams(mm)





# Line Coaxial Lights



## Outline

Diffused light from the LED is illuminated on the same axis as the camera axis. The light source and the camera coaxially irradiate the diffused light uniformly, and the linear coaxial epi-illumination light source can be imaged by the line scan camera.

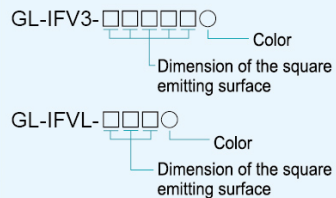
## Feature

Inspection of reflective materials.

## Major applications

1. Inspection of highly reflective surfaces, such as wafers, metal surfaces, film, liquid crystals and glass.
2. Imprint check
3. Inspection of pattern of printed boards.

## Model explanation

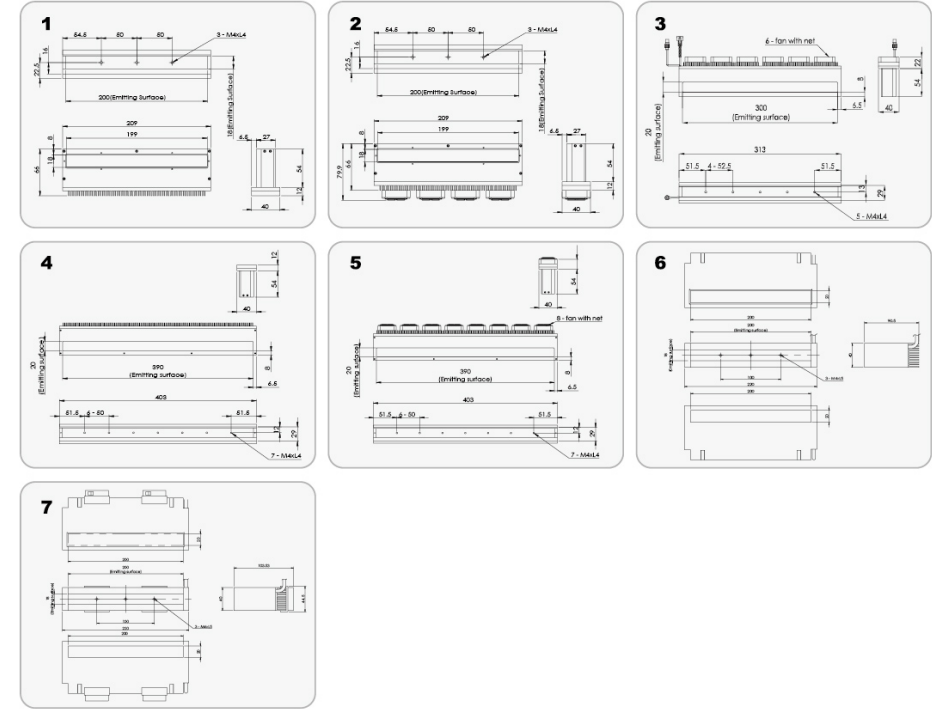


## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-IFV3-20020W/B/G-24	○ ● ●	24V/19W	1118	1
GL-IFV3-20020W/B/G-F-24	○ ● ●	24V/35W	1269	2
GL-IFV3-30020W/B-24	○ ●	24V/72.8W	849	3
GL-IFV3-39020W/B/G-24	○ ● ●	24V/56W	1135	4
GL-IFV3-39020W/B/G-F-24	○ ● ●	24V/71W	1711	5
GL-IFVL-200W	○	0.8A/31W	1118	6
GL-IFVL-200W-F	○	2A/82W	1269	7

Dimmer for GL-IFVL series is on P101.

## Dimensional Diagrams(mm)



# NEW Tunnel-Type High Intensity Line Lights



## Outline

Passive cooling method. A special hemispherical design can evenly diffuse the light, providing clearer edge imaging for uneven-shaped objects with high reflectivity.

## Feature

1. Standard length is 200mm-500mm
2. Central illumination exceeds 270k lux.
3. Suitable for surface scratch detection

## Major applications

1. Circuit boards.
2. Fine scratches on the metal surface
3. Rolls and Prints

## Model explanation

GL-THLS4-□□□

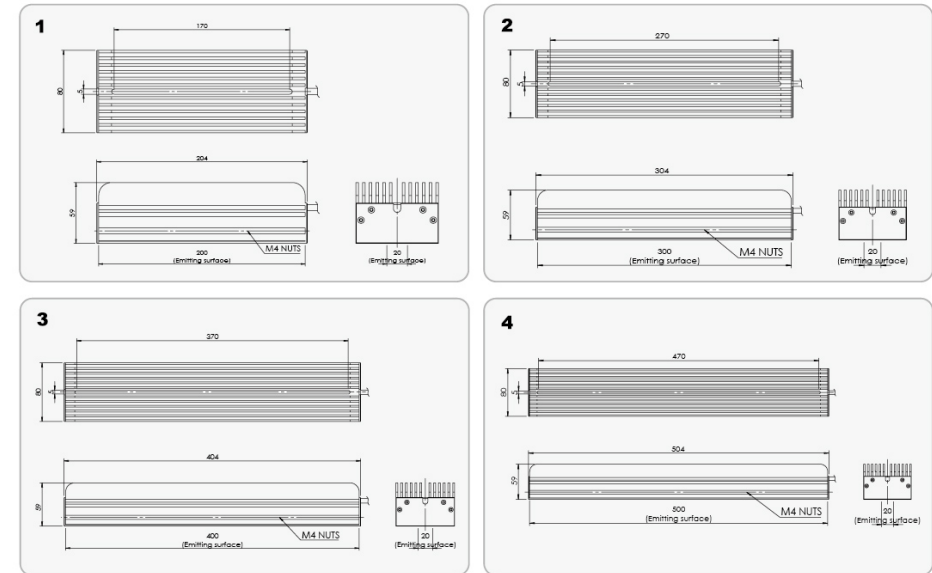
Dimension of the square emitting surface

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-THLS4-200W	○	1A/36.2W	1223	1
GL-THLS4-300W	○	1.5A/54.3W	1803	2
GL-THLS4-400W	○	2A/72.4W	2382	3
GL-THLS4-500W	○	2.5A/90.0W	2954	4

PS: Dimmer for GL-THLS4 series is on P101.

## Dimensional Diagrams(mm)



# NEW Fan-Cooling, Tunnel-Type Line Lights



### Outline

Aircooled thermal design with a special domeshaped structure that evenly diffuses light. This allows objects with uneven surfaces or high reflectivity to present clearer edge contours during imaging.

### Feature

1. Peak Central illuminance exceeds 980,000 lux
2. Suitable for detecting surface scratches and inspecting uneven surface structures

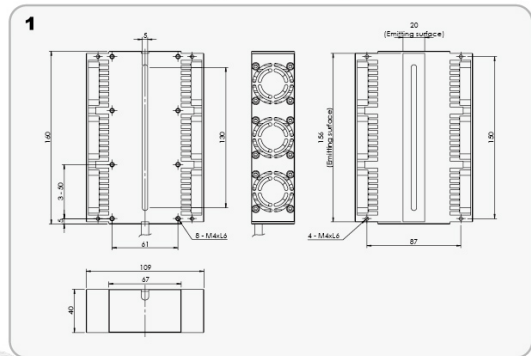
### Major applications

1. Printed circuit boards (PCBs)
2. Metal brushed surfaces
3. Films and printed materials

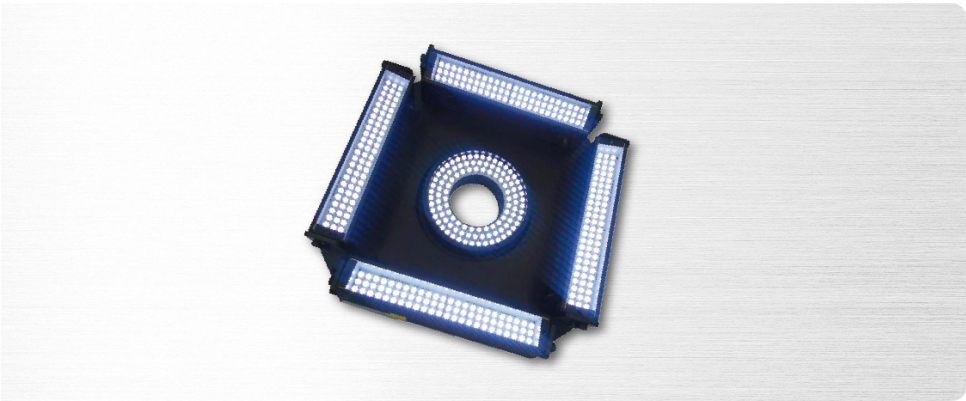
### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
NEW GL-FTHLS4-160W	○	3A/108W	845	1

### Dimensional Diagrams(mm)



# Robotic Lights



### Outline

Special light source for robot arms. Integrated light source, the ring light and square bevel light, can solve four-corner shadow and four-corner edge contour problems.

### Feature

1. Applied with the robotic arms for inspection.
2. Customized service is accepted.

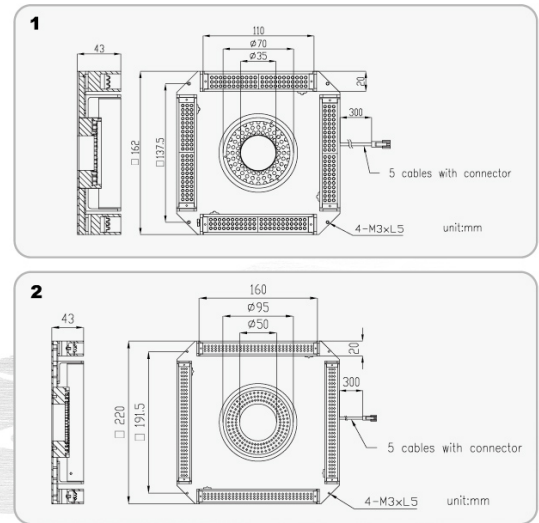
### Major applications

1. Positioning for substrates and printed boards, inspection for chip components.
2. Fabrication substrates crack inspection, metal board surface inspection.
3. Identify for multiple shapes.
4. Identify size measurement and shape for electronic parts.

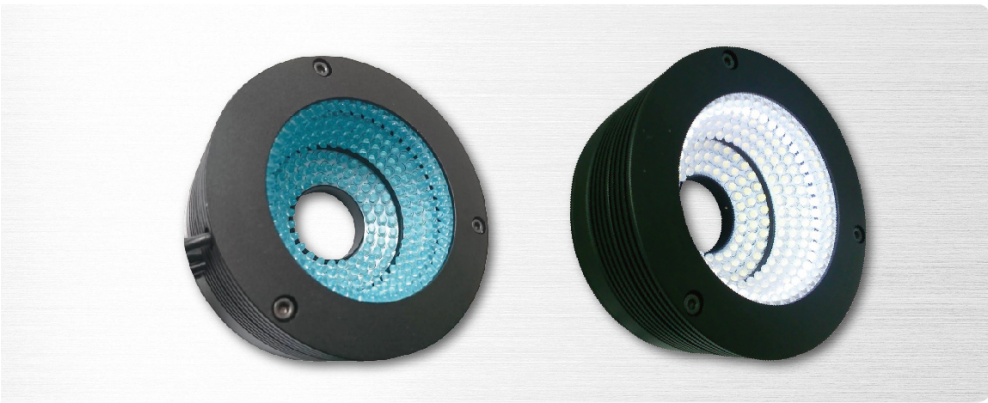
### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-RB01W-24	○	24V/21.35W	630.5	1
GL-RB02W-24	○	24V/35.42W	970.5	2

### Dimensional Diagrams(mm)



# Multi-Angle Ring Lights



## Outline

360° shadow-free illumination, including 3 different angles, 30°, 60° & 90°.

## Feature

1. The ring light for each 8 angles can be controlled individually.
2. Reduce lamp replacement working hours and costs.
3. Can be used for light laboratory evaluation cases.
4. Customization is available.

## Major applications

1. Liquid crystal adjustment, and plastic container inspection.
2. IC impress inspection.
3. Identify for multiple shapes.
4. Identify size measurement and shape for electronic parts.

## Model explanation

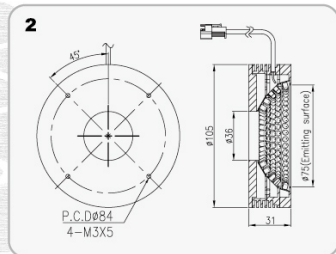
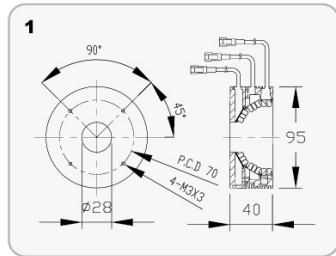
GL-MADR □□△△○ 8C

- — External diameter of the ring
- △ — Internal diameter of the ring
- — Color

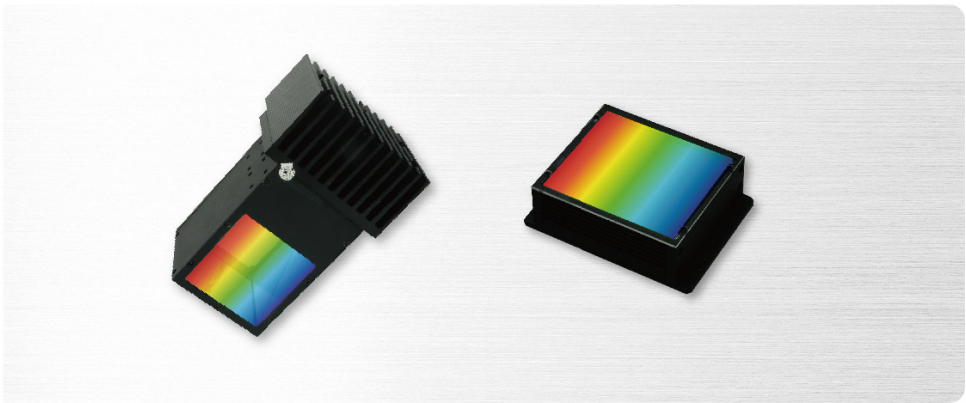
## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-MADR9528W/B/G8C-24	○●●	24V/20.16W	315.6	1
GL-MADR10536R-24	●	24V/4.8W	390	2
GL-MADR10536B-24	●	24V/9.68W		

## Dimensional Diagrams(mm)



# Triple Color Lights



## Outline

Lights are able to adjust and control RGB three colors independently.

## Feature

1. 360° shadow-free illumination
2. To save valuable man-hours for replacing other light sources.
3. Suitable for laboratory lighting evaluation cases.
4. Mix up RGB to emit yellow, light blue, pink and other colors. Ideal light colors are easily prepared.

## Major applications

1. BGA solder ball position, shape and area in inspection
2. Inspection of wafers or glass substrates for scratches and stain
3. Reading laser engraving
4. Edge detection and defect inspection

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DR12060RGB-24	●●●	24V / 13.44W	434	1
GL-LDR5328RGB-24	●●●	24V / 1.8W	164	2
GL-DIFV2-50RGB-C	●	0.45A / 6.10W	260	3
	●●	0.45A / 9.07W		
GL-DIFV2-70RGB-C	●	0.8A / 14.59W	580	4
	●●	0.8A / 21.5W		
GL-DADM2-6070RGB-C	●	0.2A/ 3.45W	250	5
	●●	0.2A/ 5.15W		
	●●●	0.2A/ 5.05W		

Dimmer for GL-DIFV2&DADM2 series is on P101.

## Model explanation

GL-DR□□□□△△RGB

GL-LDR□□□□△△RGB

- — External diameter of the ring
- △ — Internal diameter of the ring

GL-DIFV2-□□RGB-C

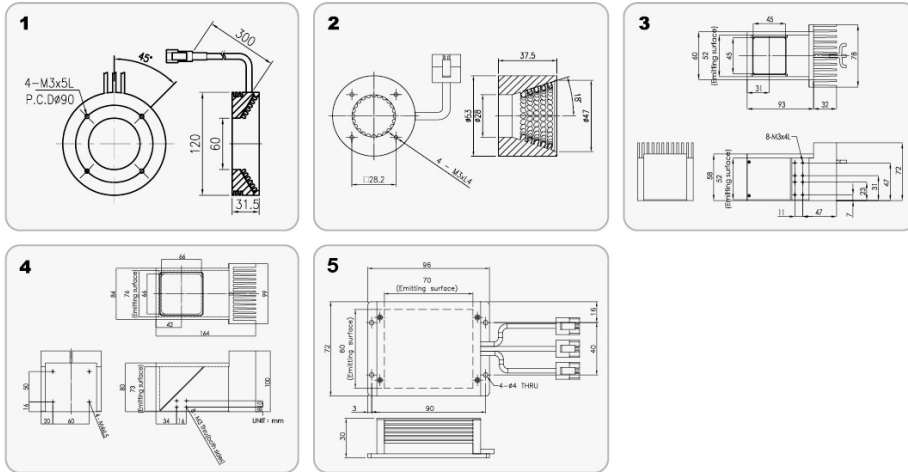
- — Dimension of the square emitting surface

GL-DADM2-□□RGB-C

- — Dimension of the square emitting surface



## Dimensional Diagrams(mm)



## Special Lighting

# Eight-Color Lights



### Outline

Ability to evenly diffused lighting from low angle with the diffusion plate. Best for preventing the halo effect.

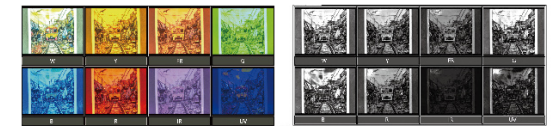
### Feature

1. Offer eight spectral bands, including white, ultraviolet, blue, green, yellow, red, far-red, and infrared.
2. Each spectrum can be controlled independently.
3. Compatible with an 8-channel lighting and imaging software for post-production effects.
4. Suitable for laboratory lighting and imaging applications.
5. Compatible with two 4-channel auto-feedback current dimmers (GLC-DPI2-4A).

### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-PR2-165100MC-C	○ (W)	14.87W	902	1
	● (R)	11.53W		
	● (G)	13.24W		
	● (B)	15.12W		
	● (UV)	16.04W		
	● (IR)	8.45W		
	● (FR)	10.85W		
	● (Y)	14.95W		

### Imaging examples

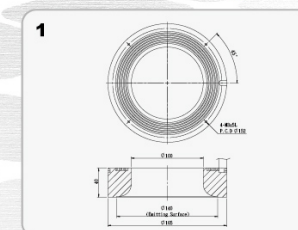


### GL-PR2-165100MC-C

### Major applications

1. OCR inspection for packaging and printed materials.
2. Defect detection for high-reflectivity, irregularly shaped objects.
3. Food and pharmaceutical quality inspections.
4. Inspection for transparent objects.

### Dimensional Diagrams(mm)



# NEW Ultraviolet (UV) Lights



## Outline

Design with HI-POWER UV LED  
With UV light, to exciting the ink material and  
generate a fluorescent reaction.

## Feature

1. Inspection of scratches and dark surfaces through UV light.
2. Standard wavelength: 365, 395 & 405nm. Customized wavelength: 375 & 385nm.
3. Lighting customization is available.
4. Mix up RGB to emit yellow, light blue, pink and other colors. Ideal light colors are easily prepared.

## Major applications

1. Photography use in the difference in the scattering rate
2. Use with a CCD camera supporting the ultraviolet ray range
3. Detection of dirt on glass substrates and dust on CCD devices
4. Scan the image of the QR Code

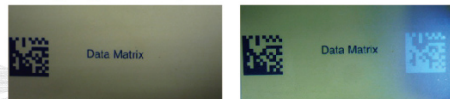
## Model explanation

- GL-DB2-□□△○
- — Dimension of the length
  - — Color
  - △ — Dimension of the width
- GL-DR2-□□△△○  
GL-LDR2-□□△△○
- — External diameter of the ring
  - △ — Internal diameter of the ring
  - — Color
- GL-IFV△-□□○
- — Dimension of the square emitting surface
  - △ — Version
  - — Color

## Available Models

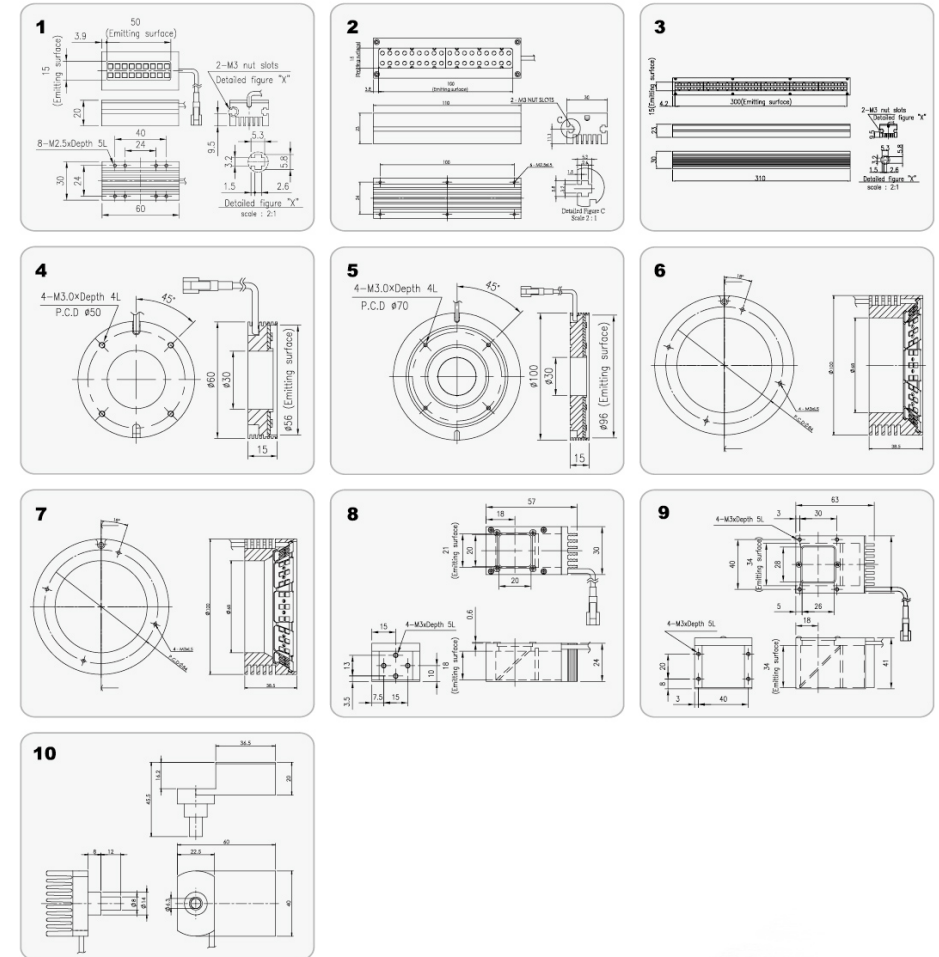
Model	Color	Power Consumption	Weight (g)	Dimension
GL-DB2-6030UV365-24	●	24V/3W	68	1
GL-DB2-6030UV405-24	●	24V/3W		
GL-DB2-11030UV365-24	●	24V/5.52W	124	2
GL-DB2-31030UV365-24	●	24V/15.3W	340	3
GL-DR2-6030UV365-24	●	24V/2.3W	67	4
GL-DR2-10030UV365-24	●	24V/7.76W	219	5
<b>NEW</b> GL-BDR3-10068UV365-24(45°)	●	24V/10.4W	311	6
GL-LDR3-10068UV365-24(60°)	●	24V/10.4W	311	7
GL-IFV2-20UV-24	●	24V/1.7W	56	8
GL-IFV2-20UV395-24	●	24V/1.7W		
GL-IFV2-34UV-24	●	24V/3.9W	150	9
GL-IFV2-34UV395-24	●	24V/3.9W		
<b>NEW</b> GL-HLV2-6040UV395-5W-A	●	1.3A/5W	66	10

## Imaging examples

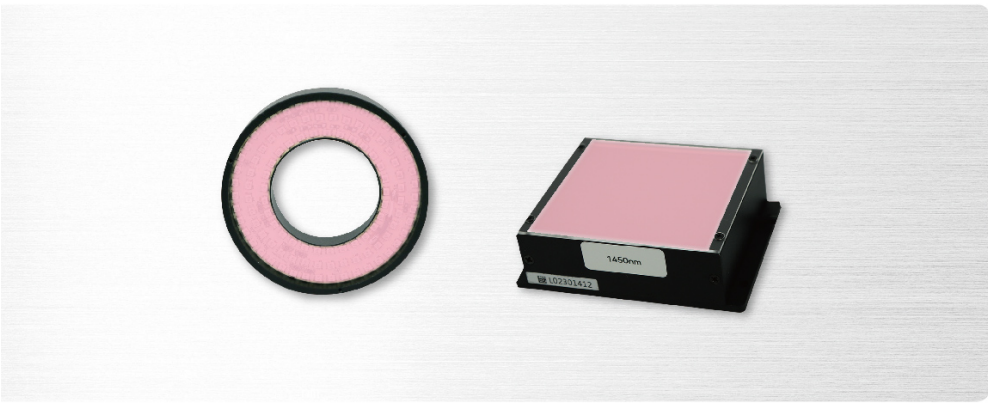


**Micro QR Code**  
The QR code can be scanned and the image is visible under UV.

## Dimensional Diagrams(mm)



# Infrared Lights (Over 1000nm)



## Outline

IR lights accomplish defect detections which visible light irradiation cannot achieve since it penetrates objects to detect certain flaws or defects and shows a black effect on them.

## Feature

1. Equipped with high directivity optical mode to suppress light diffusion.
2. High-speed detection is applicable by its enhanced brightness.
3. Wavelength: 1200nm & 1450nm

## Major Applications

1. Detect liquid level of medicines and contents of food
2. Eliminated printed patterns inspection and capacity detections.

## Model Explanation

GL-DADM2-□□△△IRO-24

□ : Dimension of length ○ : Wavelength  
△ : Dimension of width

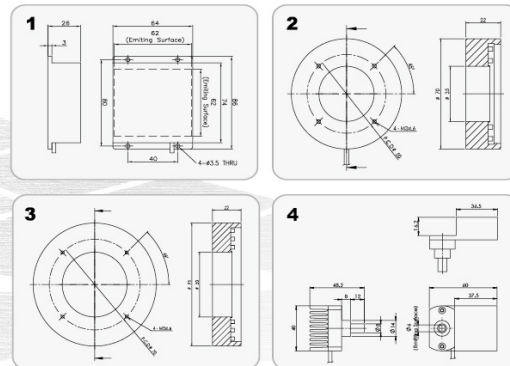
GL-DR2-□□△△IRO-24

□ : External diameter of the ring △ : Wavelength  
○ : Internal diameter of the ring

## Available Models

Model	Wavelength(nm)	Color	Power Consumption	Weight (g)	Dimension
GL-DADM2-6060IR1200-24	1200	●	24V/10.95W	150	1
GL-DR2-7035IR1200-24	1200	●	24V/6.05W	124	2
GL-DR2-9550IR1200-24	1200	●	24V/10.08W	215	3
GL-DADM2-6060IR1450-24	1450	●	24V/10.95W	150	1
GL-DR2-7035IR1450-24	1450	●	24V/6.05W	124	2
GL-DR2-9550IR1450-24	1450	●	24V/10.08W	215	3
GL-HLV2-6040IR1200-5W	1200	●	1.5A/5W	70	4
GL-HLV2-6040IR1300-5W	1300	●	1.5A/5W	70	4
GL-HLV2-6040IR1450-5W	1450	●	1.5A/5W	70	4
GL-HLV2-6040IR1550-5W	1550	●	1.5A/5W	70	4

## Dimensional Diagrams(mm)



# Microscopes Lights



## Outline

Microscope lights can control four lighting areas individually or control all area at the same time with microscopes.

## Feature

1. Choose the four different sections as user want.
2. Light weight design with built-in LED and high-resolution dimmer.
3. Service life is more than 30,000 hours. No heat, no flicker, it can replace fluorescent lamps and halogen lamps.
4. With diffuser plate, effectively reduce reflection interference.
5. The color temperature of white light can be customized.

## Major applications

1. Electronic Industry
2. Pharmaceutical Industry
3. Semi-conductor/TFT industry
4. Measurement equipments

## Model explanation

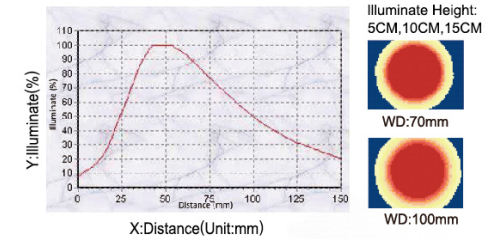
GL-MC □□△△  
External diameter of the ring  
Internal diameter of the ring

## Available Models

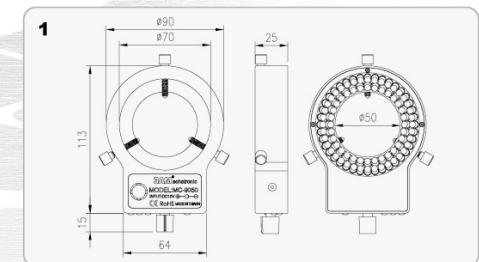
Model	Color	Power Consumption	Weight (g)	Dimension
GL-MC9050W/B (US AC Adapter)	○●	6W	100	1

## Luminous intensity distribution characteristics

GL-MC9050W Graph



## Dimensional Diagrams(mm)



# Four-Segment Ring Illumination



### Outline

Control four lighting areas individually or control all area at the same time.

### Feature

1. Choose the four different sections as user want.
2. For pressure mark and scratches which are hard to find, it can present a contrasting image.
3. With diffuser plate, effectively reduce reflection interference.

### Major applications

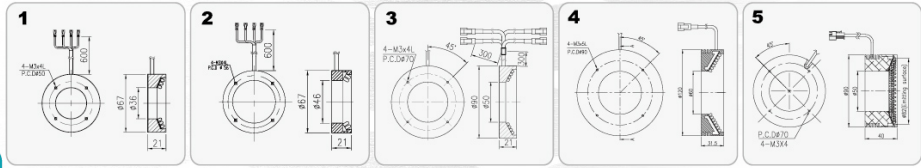
1. Positioning for substrates and printed boards, inspection for chip components
2. Liquid crystal adjustment, plastic container inspection
3. IC impress inspection

### Model explanation

GL-DR □□△△○

- External diameter of the ring
- △ Internal diameter of the ring
- Color

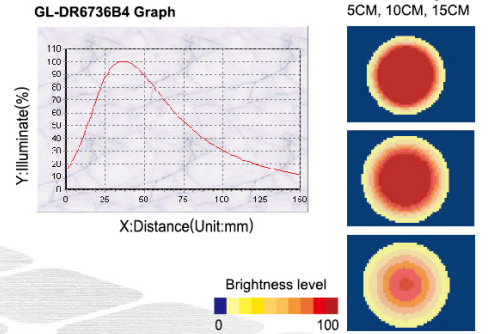
### Dimensional Diagrams(mm)



### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-DR6736B4	●	12V / 4.75W	83	1
GL-DR6746B4	●	12V / 2.78W	109	2
GL-DR9050B4	●	12V / 11.52W	162	3
GL-DR12060W4-24	○	24V / 12.6W	418	4
GL-DR2-9050B4	●	12V / 10.36W	162	5

### Luminous intensity distribution characteristics



# LED UV Irradiation Curing Device



### Outline

With small volume and lightweight design, it can instantly emit high-energy UV light. Wavelength 365 nm is for glue drying and wavelength 385nm is for ink drying.

### Feature

1. Provide high power ultraviolet light instantaneously without preheat to shorten working hours.
2. No thermal radiation. Green energy to reduce environmental burden.
3. External I/O point can be with foot switches to produce manually or in automated production lines.
4. Reduce lamp replacement working hours and costs.
5. Friendly interface is designed to reduce the training time of operator.

### Practical applications

1. High-quality Hardening (Drying) of Ink
2. High-accuracy Adhesion
3. Simultaneous Multipoint Adhesion

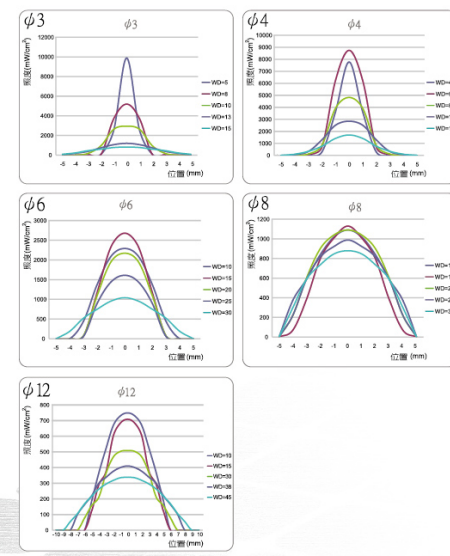
### Model explanation

GL-UVC□□ Spot Diameter

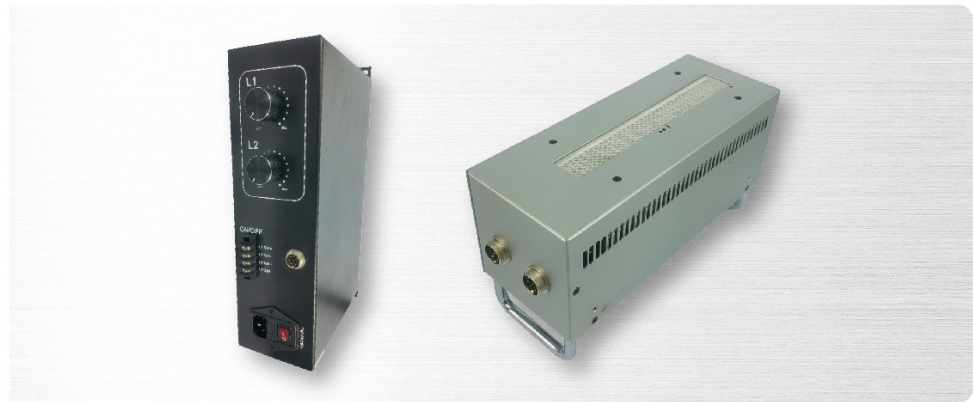
GL-UVC-CAPL□ Spot Diameter

PS: Handy dimmer for GL-UVC12 is on P101

### Luminous intensity distribution characteristics



# LED UV Irradiation Bar Curing Device



## Outline

Made with 40mm×20mm modules. UV wavelength 365nm can be used for glue curing, and 385nm can be used for ink curing.

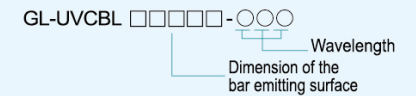
## Feature

1. Provide high power ultraviolet light instantaneously without preheat to shorten working hours.
2. No thermal radiation. Green energy to reduce environmental burden.
3. Reduce lamp replacement working hours and costs.
4. With standardized exterior design, it can increase the light source according to the needs of the production line.

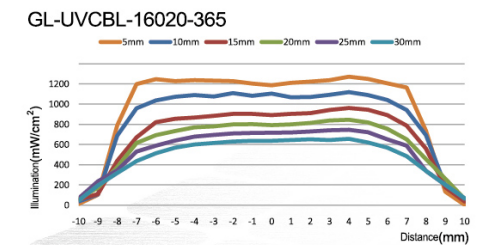
## Major applications

1. Electronic Industry
2. Glass Industry
3. Optic & Photonics Industry
4. Pharmaceutical Industry
5. Sophisticated Processing

## Model explanation



## Luminous intensity distribution characteristics



## Available Models

Head Unit Model	GL-UVC12 · GL-UVC12-A					
Lens Unit Model	GL-UVC-CAPL3	GL-UVC-CAPL4	GL-UVC-CAPL6	GL-UVC-CAPL8	GL-UVC12	GL-UVC12-A
Dimension	1	2	3	4	5	6
Wavelength	365nm / 385nm					
LED Service Life	30,000hr					
Spot Diameter	φ 3mm	φ 4mm	φ 6mm	φ 8mm	φ 12mm	φ 12mm
Recommended Working Distance	8mm	6mm	15mm	15mm	30mm	30mm
Peak Illumination (mW/cm <sup>2</sup> )	9800/11800	8700/10500	2600/3200	1100/1400	700/900	700/900
Steady-State Illumination (mW/cm <sup>2</sup> )	5000/6000	5100/6200	1900/2300	1000/1200	400/500	400/500
Power Consumption	650mA/2.6W					
Ambient Humidity Range	30~80%					
Ambient Temperature Range	5~35°C					
Material	Aluminum, Glass					
Weight	1.4g	1.4g	1.2g	1.2g	32.2g	32.2g

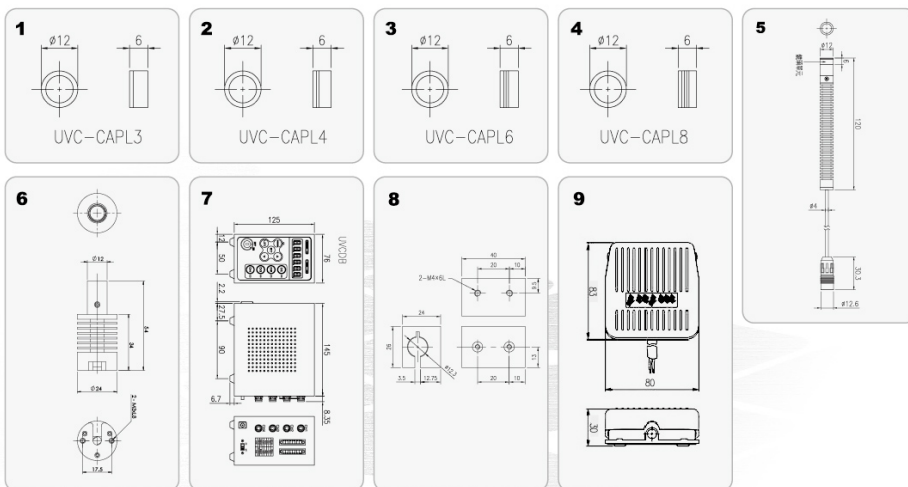
## Dimmer

Model	GLC-UVCDB	
Dimension	7	
Irradiation Method	Irradiation Illumination power (0-100%), Illumination time (max. 99.9sec/unlimited)	
Cumulative Illumination Summation	Cumulative illumination summation	
Terminal Block I/O	Input	Emergency shutdown, UV illumination start/stop (All channels/4-channel))
	Output	Ready output (all-channels /4-channel), error output, operating
Cooling Method	Air cooled (no fan)	
Power Consumption	AC100~240V	
Output	650mA/CH	
Ambient Temperature Range	+5~+35°C	
Ambient Humidity Range	30~85%	
Material	SPCC	
Weight	935g	

## Optional Accessories

Model	AL-UVC-GRIP	ALC-TFS201
Dimension	8	9

## Dimensional Diagrams(mm)



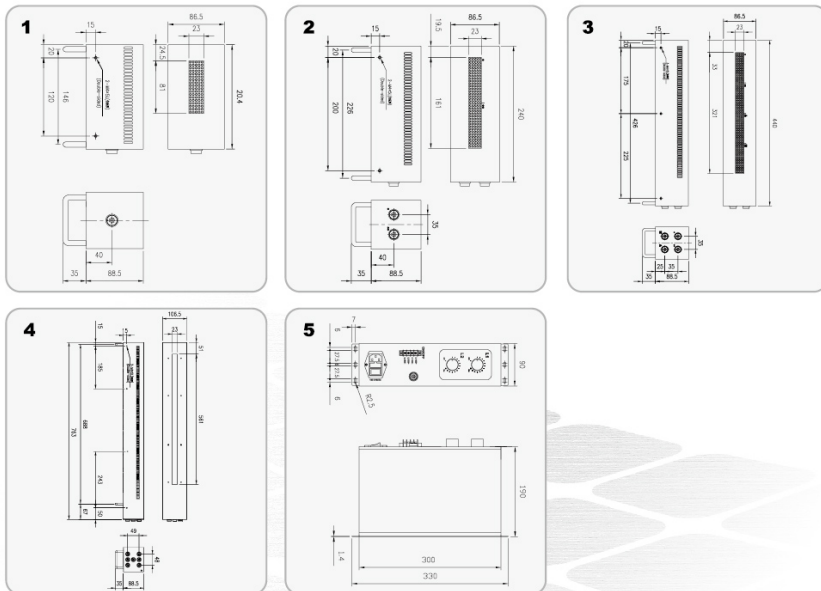
## Model explanation

Model	GL-UVCBL8020-XXX	GL-UVCBL16020-XXX	GL-UVCBL32020-XXX	GL-UVCBL56020-365
Dimension	1	2	3	4
Wavelength	365/385/405nm			365nm
LED Service Life	30,000hr	30,000hr	30,000hr	30,000hr
Illumination Area	80mm*20mm	160mm*20mm	320mm*20mm	560mm*20mm
Peak Illumination (mW/cm <sup>2</sup> )	1000/1200/1400	1000/1200/1400	1000/1200/1400	1000
Power Consumption	5A	10A	20A	35A
Ambient Temperature Range	0~35°C	0~35°C	0~35°C	0~35°C
Ambient Humidity Range	0~80%RH	0~80%RH	0~80%RH	0~80%RH
Material	SECC	SECC	SECC	SECC
Weight	1317g	2260g	4300g	9000g
Cooling Method	Air cooled with fan	Air cooled with fan	Air cooled with fan	Air cooled with fan

## Dimmer

Model	GLC-UVCDBL
Dimension	5
Irradiation Method	Irradiation Illumination power(0% to 100%), illumination time (max. 999 sec/unlimited)
Dimmer Control	ON/OFF Control
Cooling Method	Air cooled
Power Supply Voltage	AC100~240V 50/60HZ
Power Consumption	2.5A*2
Ambient Temperature Range	0~35°C
Ambient Humidity Range	0~80%RH
Material	SECC
Weight	4800g

## Dimensional Diagrams(mm)



## Special Lighting

# LED UV Irradiation Area Curing Device



## Outline

Made with 100mm×100mm modules. UV wavelength 365nm can be used for glue curing, and 385nm can be used for ink curing.

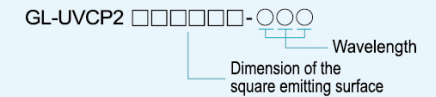
## Feature

1. Provide high power ultraviolet light instantaneously without preheat to shorten working hours.
2. No thermal radiation. Green energy to reduce environmental burden.
3. Reduce lamp replacement working hours and costs.
4. With standardized exterior design, it can increase the light source according to the needs of the production line.

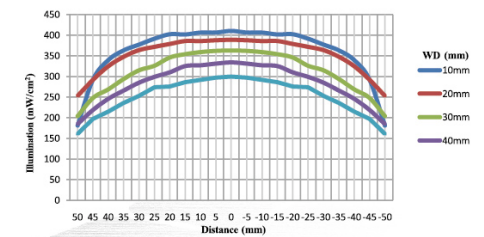
## Practical applications

1. Glass bonding
2. Display bonding
3. Large-area bondings requiring even, low-tension curing

## Model explanation



## Luminous intensity distribution characteristics



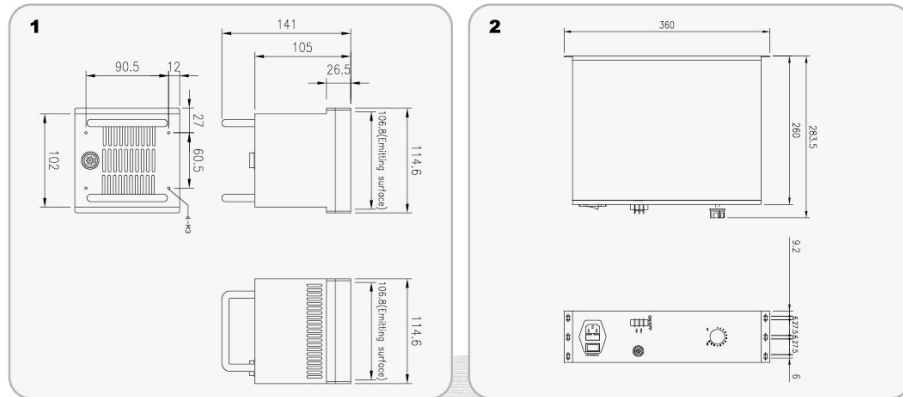
## Model explanation

Model	GL-LVCP2-100100-365
Dimension	1
Wavelength	365/385/405nm
LED Service Life	30,000hr
Illumination Area	106*106mm
Peak Illumination	415mw/cm <sup>2</sup> @ 1cm
Power Consumption	7.5A MAX.
Ambient Temperature Range	5~25°C
Ambient Humidity Range	30~80%
Material	AL, SPCC, GLASS
Weight	2500g
Cooling Method	Air cooled with fan

## Dimmer

Model	GLC-LVCD2
Dimension	2
Dimmer Control	Manual control; ON/OFF
Cooling Method	Air cooled (no fan)
Power Supply Voltage	AC 100~240V 50/60Hz
Power Consumption	7.5A MAX.
Ambient Temperature Range	5~35°C
Ambient Humidity Range	30~80%
Material	SPCC
Weight	7300g

## Dimensional Diagrams(mm)



## Special Lighting

# LED Light Source



## Outline

Replace for the 150W & 250W halogen/ metal halide lamps. Can be used with different fiber optic guides.

## Feature

1. Life time: More than 300.00 hr.
2. Provide high power ultraviolet light instantaneously without preheat.
3. No thermal radiation. Green energy to reduce environmental burden.
4. Reduce lamp replacement working hours and costs.

## Specification

Model	GLC-LFB2-150R/W/B/G	GLC-LFB2-150IR940	GLC-LFB2-250	GLC-LFB2-350
Power Supply	100~240VAC	100~240VAC	100~240VAC	100~240VAC
AC Input Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Consumption	Max. 100VA	Max. 90VA	Max. 300VA	Max. 500VA
Color	●○●●	IR940	○	○
Lux. (WD:50mm, φ6)	Approx 200,000 1x	77mw/cm <sup>2</sup>	520,000 1x	910,000 1x
Control Method	Internal	Adjust by knob	Adjust by knob	Adjust by knob
	External	AD	AD	RS232/IO/AD
Cooling Ambient	Ambient Temperature Range	5~35°C	5~35°C	5~35°C
	Ambient Humidity Range	30~80% RH	30~80% RH	30~80% RH
Cooling Method	Air cooled with fan	Air cooled with fan	Air cooled with fan	Air cooled with fan
Size	210(L)x100(W)x120(H)	210(L)x100(W)x120(H)	300(L)x180(W)x140(H)	300(L)x180(W)x140(H)
Weight	1872	1735	5076	5076

## Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GLC-LFB2-150R/W/B/G	●○●●	100VA	1872	1
GLC-LFB2-150IR940	●	90VA	1735	2
GLC-LFB2-250	○	300VA	5076	3
GLC-LFB2-350	○	500VA	5076	4

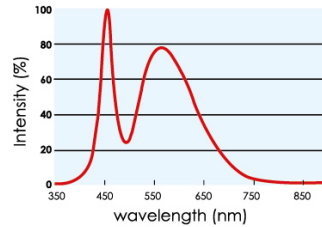
## Fiber-optic Light Guide



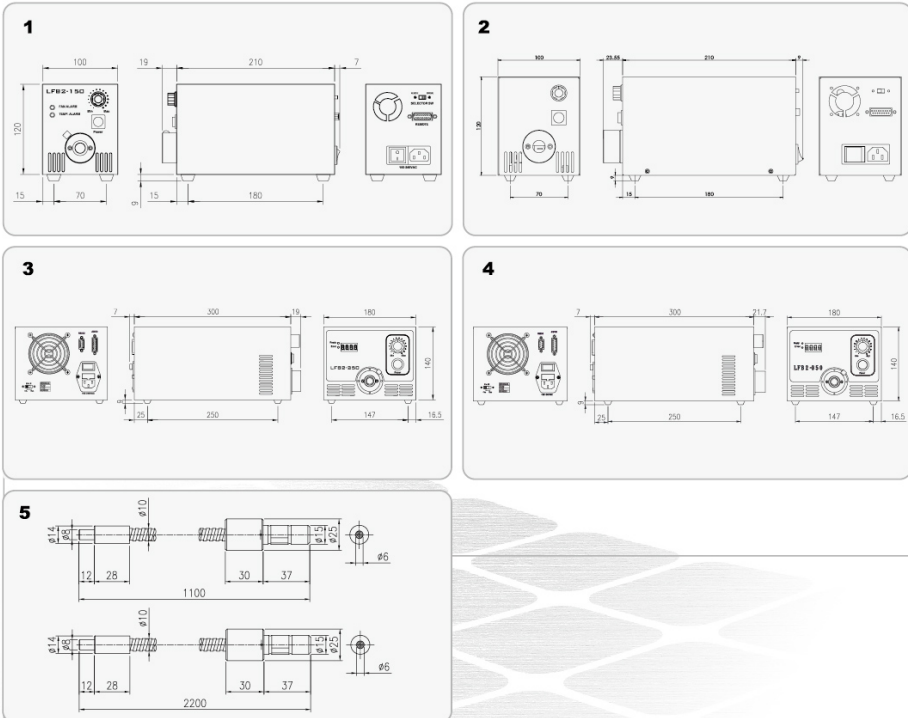
### Optional Accessories

Model	Spot Diameter	Length	Weight(g)	Dimension
ALC-MOFB-MSG6-1100S	φ 8mm	1.1 M	230	5
ALC-MOFB-MSG6-2200S	φ 8mm	2.2 M	290	

### Spectral characteristics



### Dimensional Diagrams(mm)



## Special Lighting

# NEW Straight Round Lights



### Outline

Provides focused direct illumination and can be installed in various environments.

### Feature

1. Long illumination distance with a wider lighting area.
2. Lighting distance and coverage can be adjusted based on on-site needs.

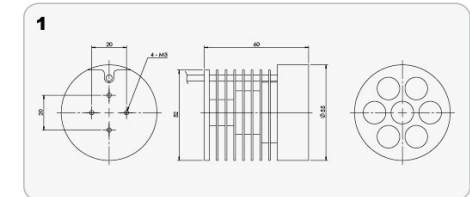
### Major applications

1. Ideal for small, lightweight, high-power setups, such as lighting at the end of a robotic arm.
2. Suitable for limited imaging spaces, such as mid-to long-distance lighting for robotic gripper tips.
3. Used for contour inspection, surface checking, and scratch detection.

### Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
NEW GL-ST50R-A	●	600mA/12.75W	188	1
NEW GL-ST50W/B/G-A	○ ● ●	600mA/15.32W		

### Dimensional Diagrams(mm)





# NEW Parallel Lights



## Outline

Parallel lighting suppresses the diffusion to achieve the high precise performance on inspection.

## Feature

1. Improving lighting diffusion, ideal for outline inspection.
2. Wide range WD, best choice for long distance inspection.
3. Inspection of high accuracy dimensional measurement.

## Major applications

1. Applied to slight defect detection.
2. Motor parts, electronic components or pill packing.
3. Gap inspection of soldering tin and connector.

## Available Models

Model	Color	Power Consumption	Working Distance(mm)	Weight (g)	Dimension
GL-PL50R	●	700mA/3W	300-450	254	1
GL-PL50W/B/G	○ ● ●	700mA/3W			
GL-PL2-26R	●	700mA/3W	23-46	267	2
GL-PL2-26W/B/G	○ ● ●	700mA/3W			
GL-PL2-36R	●	700mA/3W	36-72	350	3
GL-PL2-36W/B/G	○ ● ●	700mA/3W			
GL-PL2-48R	●	700mA/3W	43-86	416	4
GL-PL2-48W/B/G	○ ● ●	700mA/3W			
GL-PL2-64 R	●	700mA/3W	63-126	805	5
GL-PL2-64 W/B/G	○ ● ●	700mA/3W			
GL-PL2-80 R	●	700mA/3W	76-152	1531	6
GL-PL2-80 W/B/G	○ ● ●	700mA/3W			
GL-PL2-100 R	●	700mA/3W	86-172	3062	7
GL-PL2-100 W/B/G	○ ● ●	700mA/3W			
GL-PL2-120 R	●	700mA/3W	93-186	3674	8
GL-PL2-120 W/B/G	○ ● ●	700mA/3W			
GL-PL2-150 R	●	700mA/3W	100-200	5630	9
GL-PL2-150 W/B/G	○ ● ●	700mA/3W			
<b>NEW</b> GL-PL3-26R-A	●	1300mA/5W	23-46	267	10
<b>NEW</b> GL-PL3-26W/B/G-A	○ ● ●	1300mA/5W			
<b>NEW</b> GL-PL3-36R-A	●	1300mA/5W	36-72	350	11
<b>NEW</b> GL-PL3-36W/B/G-A	○ ● ●	1300mA/5W			
<b>NEW</b> GL-PL3-48R-A	●	1300mA/5W	43-86	416	12
<b>NEW</b> GL-PL3-48W/B/G-A	○ ● ●	1300mA/5W			

## Available Models

Model	Color	Power Consumption	Working Distance(mm)	Weight (g)	Dimension
<b>NEW</b> GL-PL3-64R-A	●	1300mA/5W	63-126	805	13
<b>NEW</b> GL-PL3-64W/B/G-A	○ ● ●	1300mA/5W			
<b>NEW</b> GL-PL3-80R-A	●	1300mA/5W	150-300	1509	14
<b>NEW</b> GL-PL3-80W/B/G-A	○ ● ●	1300mA/5W			
<b>NEW</b> GL-PL3-120R-A	●	1300mA/5W	93-186	3674	15
<b>NEW</b> GL-PL3-120W/B/G-A	○ ● ●	1300mA/5W			
<b>NEW</b> GL-PL3-150R-A	●	1300mA/5W	100-200	5630	16
<b>NEW</b> GL-PL3-150W/B/G-A	○ ● ●	1300mA/5W			

PS: Dimmer for GL-FHLS4 series is on P101.

## Model explanation

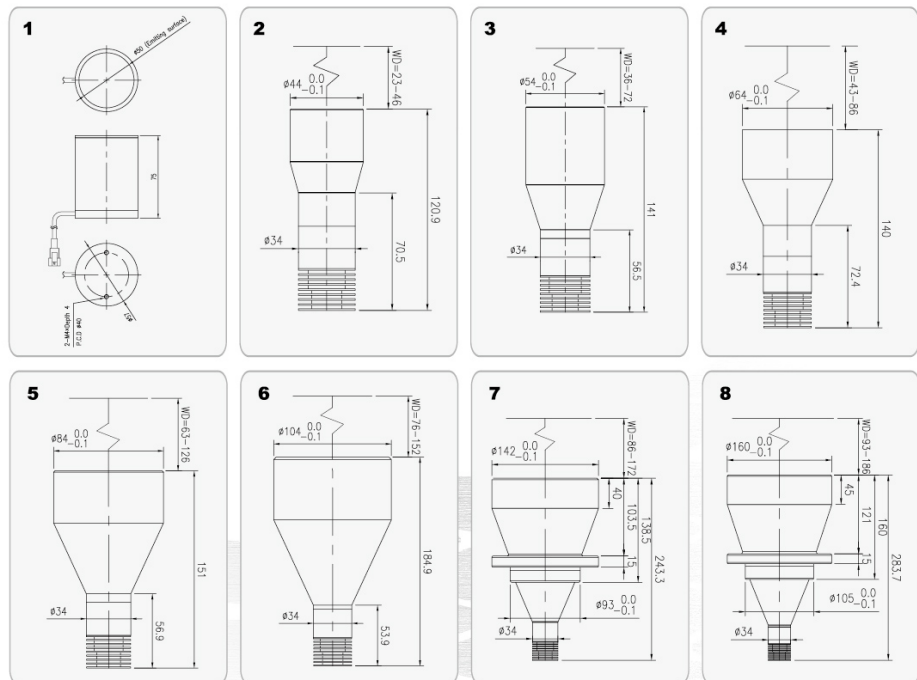


## Luminous intensity distribution characteristics

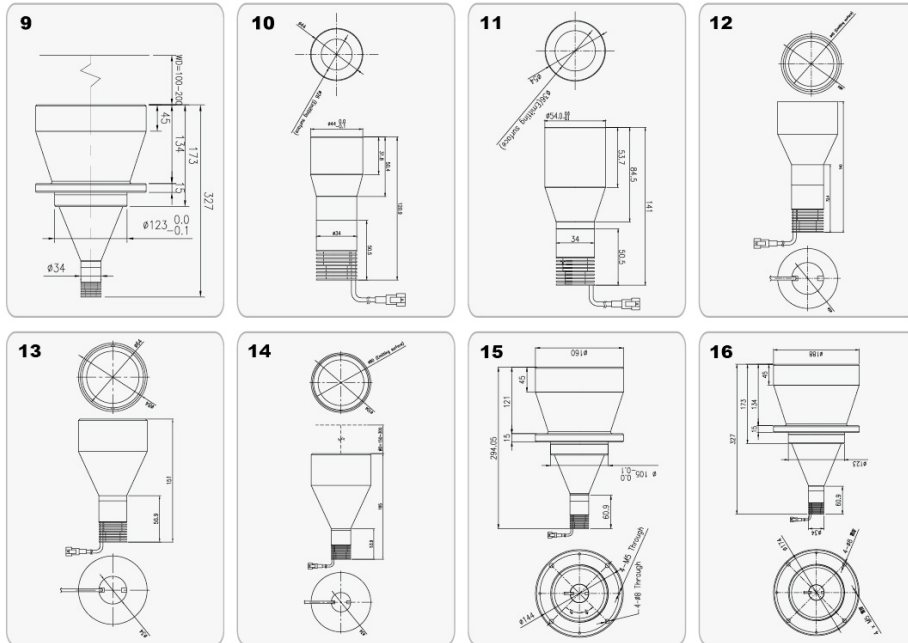
PL68W Graph  
Illuminate Height:5CM,10CM,15CM



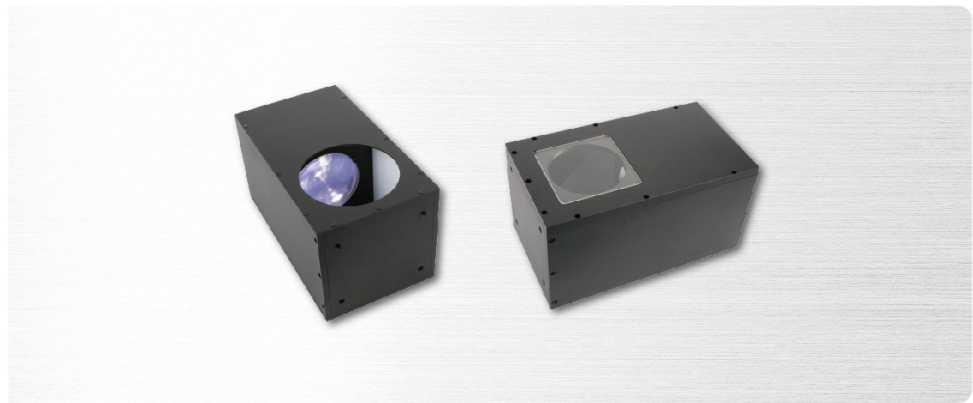
## Dimensional Diagrams(mm)



Dimensional Diagrams(mm)



Parallel Coaxial Lights



Outline

Parallel lighting suppresses the diffusion to achieve the high precise performance on inspection.

Feature

- 1. Improving lighting diffusion, ideal for outline inspection.
- 2. Inspection of high accuracy dimensional measurement.

Major applications

- 1. Motor parts, electronic components or pill packing
- 2. Gap inspection of soldering tin and connector

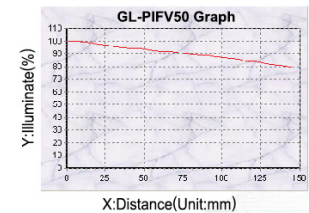
Model explanation

GL-PIFV□□○  
 □ — Light-emitting area    ○ — Color

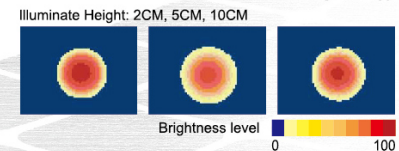
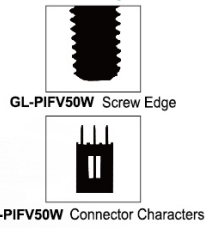
Available Models

Model	Color	Power Consumption	Weight (g)	Dimension
GL-PIFV38R	●	700mA/3W		
GL-PIFV38W/B/G	○ ● ●	700mA/3W	480	1
GL-PIFV38IR	●	700mA/3W		
GL-PIFV50R	●	700mA/3W		
GL-PIFV50W/B/G	○ ● ●	700mA/3W	708	2
GL-PIFV50IR	●	700mA/3W		

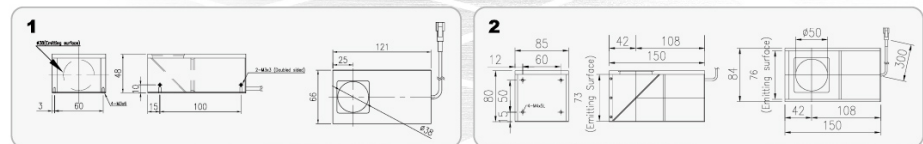
Luminous intensity distribution characteristics



Imaging examples



Dimensional Diagrams(mm)



# NEW Wafer Lighting Source



### Outline

A fixed-focal-length optical system delivers a 55 mm spot at a 310 mm working distance with over 420 kLux, enabling clear naked-eye inspection of crystal-surface defects.

### Feature

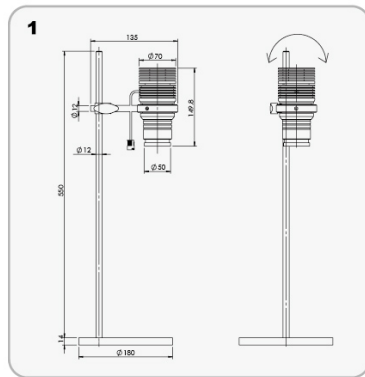
Color temperature can be customized.

### Available Models

Model	Color	Weight (g)	Dimension
NEW GL-WA70W	●	4488	1
NEW GL-WA70W-3100K	○ ● ●	4488	1

PS: Dimmer for Wafer Lighting is on P101.

### Dimensional Diagrams(mm)



# Telecentric lens for four-side image at 90°



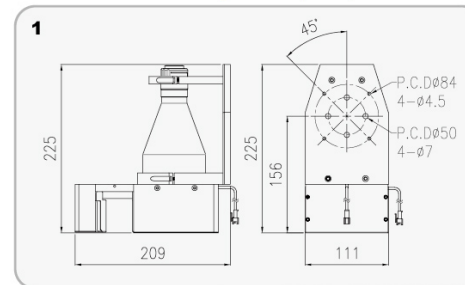
### Outline

A group of bilateral telecentric mirrors form four 90-angle optical images through special optically designed mirrors and mirrors. The lens used to directly detect the appearance and measure the size of the side of the object without rotation mechanism.

### Feature

1. Contains two kinds of light sources: high directivity backlight green light and circular low-angle blue light.
2. Highly directional backlight green light, can make the outline of object and edge contrast clear. There will be no fuzzy grayscale gradients affect the focus and cause misjudgment and affect accuracy.
3. The mechanism is easy to disassemble and assemble and convenient for maintenance.
4. Suitable for detecting the measured objects of screws and fasteners.
5. Customized service is offered.

### Dimensional Diagrams(mm)



### Available Models

Model	ALN-TCA11864	
CCD type	1/2"	
Object diameter (mm)	8mm Max.	
Object height (mm)	32mm Max.	
Wavelength range (nm)	450~650	
wF/#	4.6	
Width (mm)	111	
Length (mm)	209	
Height (mm)	225	
Mount	C-Mount	
Input Voltage (V)	Ring illumination	24
Power Consumption (W)	Ring illumination	2.6
Input Voltage (V)	Coaxial illumination	24
Power Consumption (W)	Coaxial illumination	12.96
Dimension	1	
Weight	2477	

# Module Constant Voltage Power Supply



## Available Models

Model	Power Consumption	Internal Control	External Control	Connector	Weight(g)	Dimension
GLC-PS2-24V10W-1CH	24V/10W	Analog knob	N/A	SMP-03V*1	426	1
GLC-PS2-24V10W-2CH	24V/20W			SMP-03V*2	464	2

## Outline

Analog voltage output. Adjust the knob to change output value of voltage frequency.

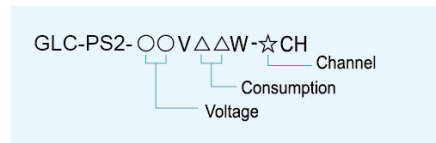
## Feature

1. Output DC8~12V, each channel is 10W.
2. Can be used as no segment control by variable voltage.
3. Input voltage is AC100V~AC240V.
4. According to LED quantity to choose 1CH/ 2CH model.

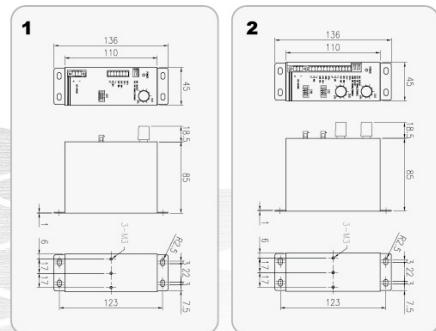
## Major applications

1. Dual channel outputs independently controlled by each knob.
2. Adjust the knob to change output value of voltage frequency.
3. Dual channel outputs independence external ON/OFF controls button.

## Model explanation



## Dimensional Diagrams(mm)



# PWM Power Supply



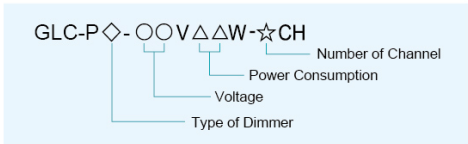
## Available Models

Model	Power Consumption	Internal Control	External Control	Connector	Number of Channels	W(g)	Dimension		
GLC-PP24V12W-1CH	24V/12W	Knob control (100-stage settings)	N/A	SMP-03V*1	1	426	1		
GLC-PP24V12W-2CH	24V/24W			SMP-03V*2	2	464	2		
GLC-PP24V12W-4CH	24V/48W			SMP-03V*4	4	711	3		
GLC-PP24V24W-1CH	24V/24W			SMP-03V*1	1	711	4		
GLC-PP24V24W-2CH	24V/48W			SMP-03V*2	2	711	5		
GLC-PP24V24W-4CH	24V/96W			SMP-03V*4	4	1050	6		
GLC-PP24V24W-8CH	24V/192W	SMP-03V*8	8	1598	7				
GLC-PD24V24W-1CH	24V/24W	Section Knob (512 stage settings)	RS-232	SMP-03V*1	1	787	8		
GLC-PD24V24W-2CH	24V/48W			SMP-03V*2	2	787	9		
GLC-PD24V24W-4CH	24V/96W			SMP-03V*4	4	787	10		
GLC-PD24V24W-8CH	24V/192W			SMP-03V*8	8	1487	11		
GLC-PD24V30W-1CH	24V/30W			SMP-03V*1	1	890	12		
GLC-PD24V30W-2CH	24V/60W			SMP-03V*2	2	1242	13		
GLC-PD24V30W-4CH	24V/120W	SMP-03V*4	4	2090	14				
GLC-PD24V30W-8CH	24V/240W	SMP-03V*8	8	3480	15				
GLC-PD24V48W-1CH	24V/48W	Jog shuttle Knob (256 stage settings)	I/O	SMP-03V*1	1	832	16		
GLC-PD24V48W-2CH	24V/96W			SMP-03V*2	2	1615	17		
GLC-PD24V100W-1CH	24V/100W			SMP-03V*1	1	1512	18		
GLC-PD24V100W-2CH	24V/200W			SMP-03V*2	2	1512	19		
GLC-PDE24V24W-1CH	24V/24W			Ethernet	RS-232	M12	1	737	20
GLC-PDE24V24W-2CH	24V/48W					SMP-03V*2	2	737	21
GLC-PDE24V24W-4CH	24V/96W	SMP-03V*4	4			1220	22		
GLC-PDE24V24W-8CH	24V/192W	SMP-03V*8	8			1850	23		

### Outline

Internal Controlled by the Simple Knob (PP series), Coarse and Fine Adjustment Knobs (PD series) and Shuttle Knob (PDE series), it provides PWM pulse output and can vary up to 512 stage settings.

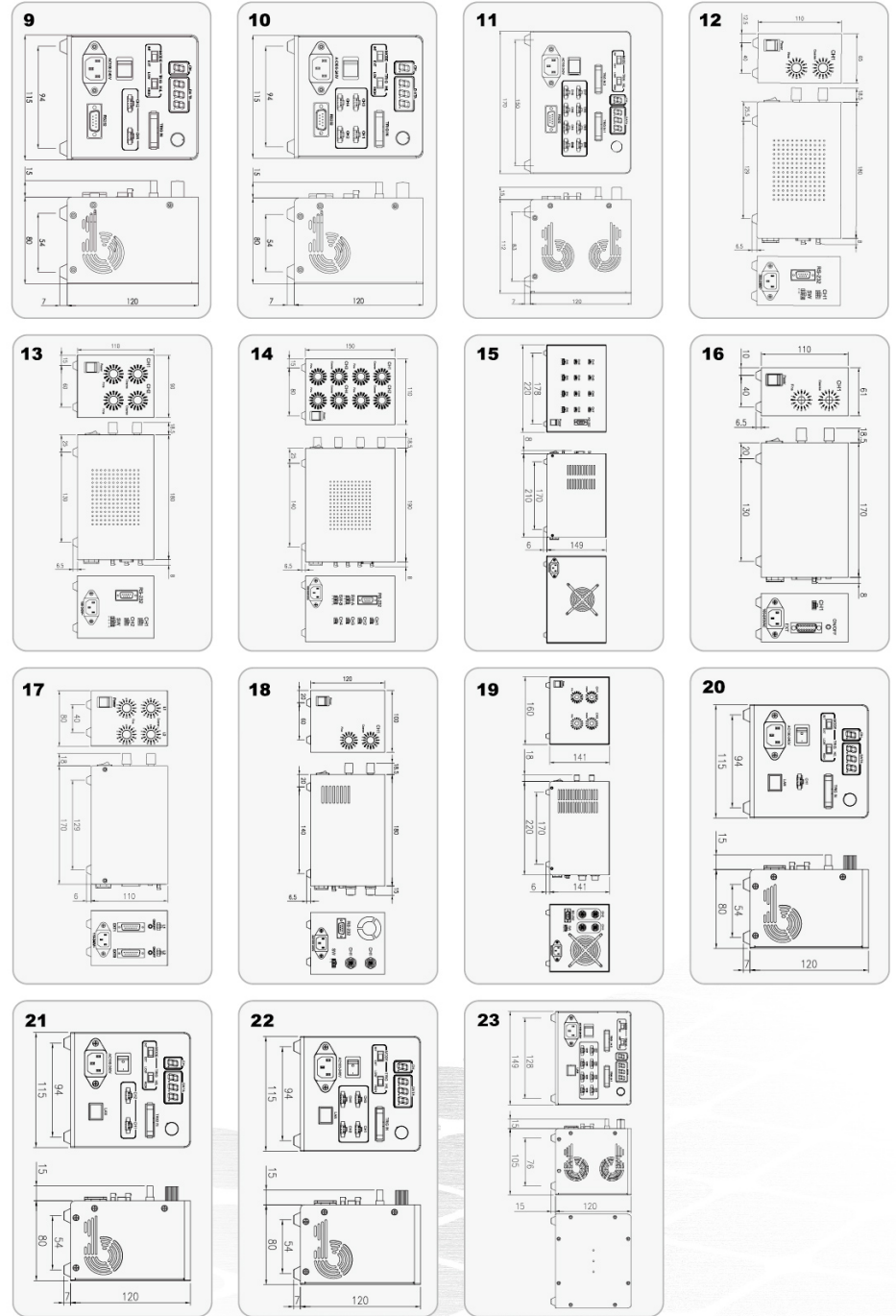
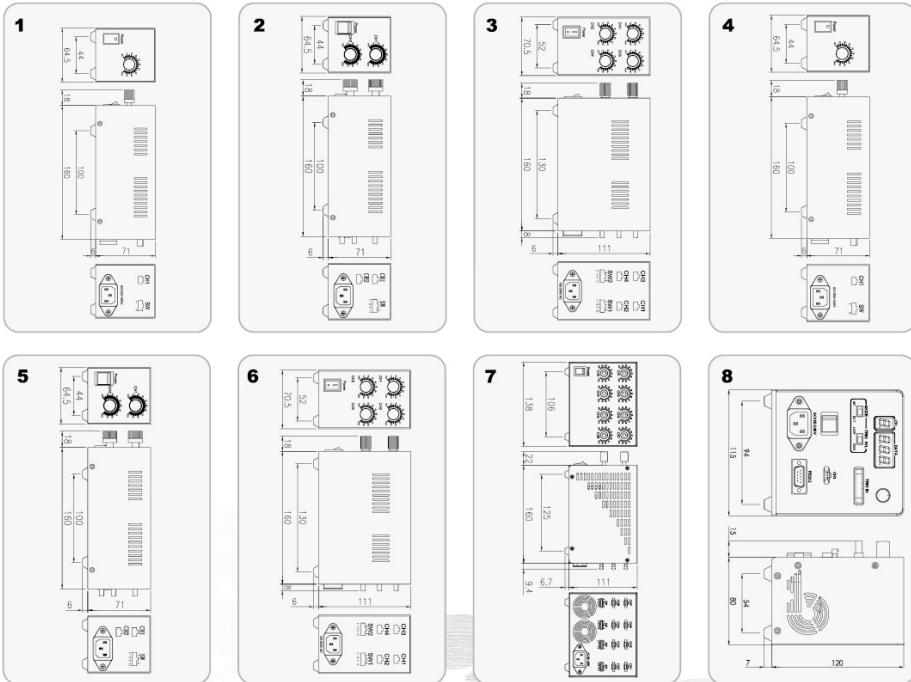
### Model Explanation



### Feature

1. PP series is driven by DC5-24V voltage signal when external trigger control is activated.
2. PD series is driven by DC5V voltage signal and communication protocol when external trigger I/O (8bit) or RS-232 control is activated.
3. PDE series is externally controlled via network interface.
4. Input voltage is in AC100-240V range.
5. According to LED quantity, 1CH/2CH/4CH/8CH models available.

### Dimensional Diagrams(mm)



# NEW Current Power Supply



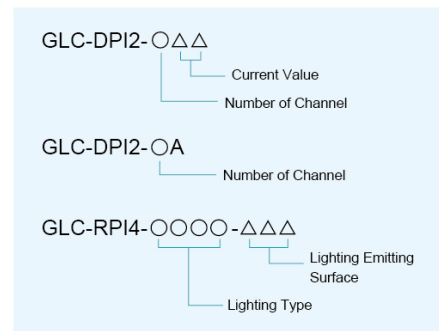
## Outline

Internal controlled by 512-stage jog shuttle knob, current power supply provides two methods, constant current and auto-feedback current output, with precise current output without drifting.

## Feature

1. Constant current dimmers, DPI2 series, provide fixed current from 0.35A to 1.3A in 6 values.
2. DPI2-2A&DPI2-4A, are auto-feedback current dimmers for Triple Color light sources, which automatically detect the limit of current of lights.
3. RPI4-HLS4 series for High Intensity Line Lights, Tunnel-Type High Intensity Line Lights.
4. RPI4-AHLS4 series for Air-Cooling High Intensity Line Light, Fan-Cooling High Intensity Line Light.
5. External control via RS-232 interface.
6. Input voltage is in AC100-240V range.
7. According to LED quantity, 1CH/2CH/4CH models are available.

## Model explanation



## Current Dimmers for Light Sources

LED Light Source	Dimmer
GL-DIFV2-50RGB-C	GLC-DPI2-4A
GL-DIFV2-70RGB-C	GLC-DPI2-4A
GL-UVC12 (UV Pen Curing Device only)	GLC-DPI2-165
Parallel Light GL-PL68 Series	GLC-DPI2-165
Parallel Lights (Excluding GL-PL68)	GLC-DPI2-170
Parallel Coaxial Lights	GLC-DPI2-170
Wafer Lighting Source	GLC-DPI2-1100
GL-HLS4-200W	GLC-RPI4-HLS4-200
GL-HLS4-300W	GLC-RPI4-HLS4-300
GL-HLS4-400W	GLC-RPI4-HLS4-400
GL-HLS4-500W	GLC-RPI4-HLS4-500
GL-HLS4-600W	GLC-RPI4-HLS4-600
GL-HLS4-700W	GLC-RPI4-HLS4-700
GL-HLS4-800W	GLC-RPI4-HLS4-800
GL-HLS4-900W	GLC-RPI4-HLS4-900
GL-HLS4-1000W	GLC-RPI4-HLS4-1000
GL-THLS4-200W	GLC-RPI4-HLS4-200
GL-THLS4-300W	GLC-RPI4-HLS4-300
GL-THLS4-400W	GLC-RPI4-HLS4-400
GL-THLS4-500W	GLC-RPI4-HLS4-500
GL-AHLS4-200W	GLC-RPI4-AHLS4-200
GL-AHLS4-300W	GLC-RPI4-AHLS4-300
GL-AHLS4-400W	GLC-RPI4-AHLS4-400
GL-AHLS4-500W	GLC-RPI4-AHLS4-500
GL-AHLS4-600W	GLC-RPI4-AHLS4-600
GL-AHLS4-700W	GLC-RPI4-AHLS4-700
GL-AHLS4-800W	GLC-RPI4-AHLS4-800
GL-AHLS4-900W	GLC-RPI4-AHLS4-900
GL-AHLS4-1000W	GLC-RPI4-AHLS4-1000
GL-FHLS4-200W	GLC-RPI4-AHLS4-200
GL-FHLS4-300W	GLC-RPI4-AHLS4-300
GL-FHLS4-400W	GLC-RPI4-AHLS4-400
GL-FHLS4-500W	GLC-RPI4-AHLS4-500
GL-FHLS4-600W	GLC-RPI4-AHLS4-600
GL-FHLS4-700W	GLC-RPI4-AHLS4-700
GL-FHLS4-800W	GLC-RPI4-AHLS4-800
GL-FHLS4-900W	GLC-RPI4-AHLS4-900
GL-FHLS4-1000W	GLC-RPI4-AHLS4-1000
GL-IFVL-200W	GLC-RPI4-IFVL-200
GL-IFVL-200W-F	GLC-RPI4-HLS4-400

## NEW Available Models

Model	Max. Current Output	Connector	Number of Channels	Weight	Dimension
GLC-DPI2-HLV	1.5A	SMP-04V*1	1	737	1
GLC-DPI2-2A	1.5A	SMP-04V*2	2	1052	2
GLC-DPI2-4A	1.5A	SMP-04V*4	4	1237	3
NEW GLC-DPIH2-1A	3A	M12	1	1052	4
GLC-DPI2-135	0.35A				
GLC-DPI2-150	0.5A				
GLC-DPI2-165	0.65A				
GLC-DPI2-170	0.7A	SMP-03V*1	1	737	5
GLC-DPI2-1100	1A				
GLC-DPI2-1130	1.3A				
GLC-DPI2-235	0.35A				
GLC-DPI2-250	0.5A				
GLC-DPI2-265	0.65A	SMP-03V*2	2	837	6
GLC-DPI2-270	0.7A				
GLC-DPI2-2130	1.3A				
GLC-DPI2-435	0.35A				
GLC-DPI2-450	0.5A				
GLC-DPI2-470	0.7A	SMP-03V*4	4	937	7
GLC-DPI2-4130	1.3A				
GLC-RPI4-HLS4-200	1A				
GLC-RPI4-HLS4-300	1.5A				
GLC-RPI4-HLS4-400	2A				
GLC-RPI4-HLS4-500	2.5A				
GLC-RPI4-HLS4-600	3A				
GLC-RPI4-HLS4-700	3.5A				
GLC-RPI4-HLS4-800	4A				
GLC-RPI4-HLS4-900	4.5A				
GLC-RPI4-HLS4-1000	5A				
GLC-RPI4-AHLS4-200	2A	PLT168	1	2222	8
GLC-RPI4-AHLS4-300	3A				
GLC-RPI4-AHLS4-400	4A				
GLC-RPI4-AHLS4-500	5A				
GLC-RPI4-AHLS4-600	6A				
GLC-RPI4-AHLS4-700	7A				
GLC-RPI4-AHLS4-800	8A				
GLC-RPI4-AHLS4-900	9A				
GLC-RPI4-AHLS4-1000	10A				
GLC-RPI4-IFVL-200	0.8A				

# NEW LED Strobe Power Dimmer



## Available Models

Model	Power Consumption	Output	Connector	Output Type	W(g)	Dimension
GLC-STB-C2P6-2CH	AC100V~AC240V	12~35V/250W	PLT 8pin	Ethernet / Trigger	2124	1

Model	Power Consumption	Output Voltage		Input Voltage		Output power	Output Type
		Continuous Mode	Overdriving Mode	Continuous Mode	Overdriving Mode		
GLC-IPSC4	DC12V~24V	5V~55V	5V~200V	1A	10A	Max: 120W	RS-232 / Ethernet
<b>NEW</b> GLC-HPSC4	DC12V~24V	5V~48V	5V~48V	4A	40A	Max: 150W	Ethernet

Time	External Input	W(g)	Dimension
1μs-1000ms 1μs steps	0-5V or 0-24V	715	2
1μs-60s 1μs steps	3V~24V	635	3

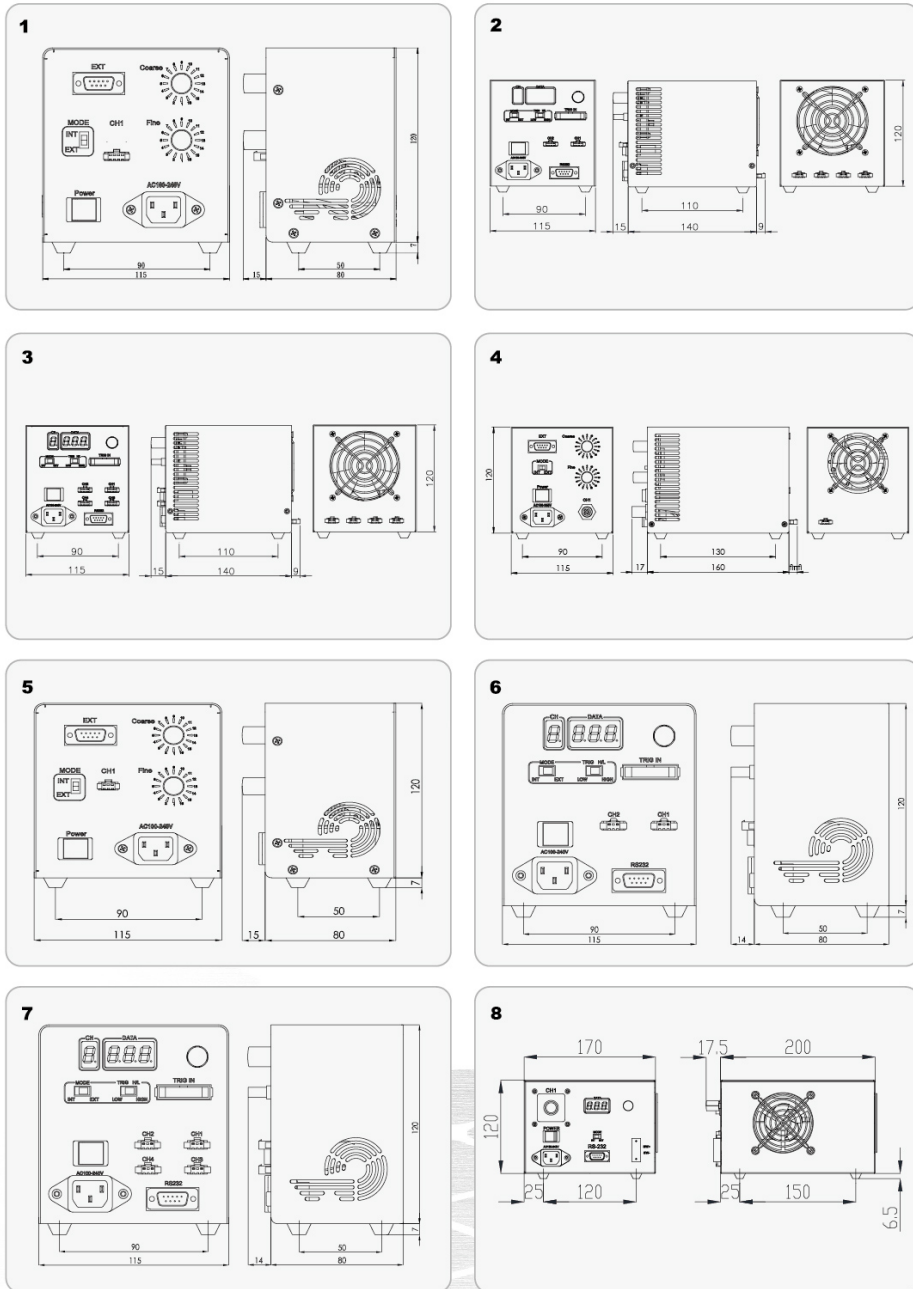
## Outline

The strobe dimmer that drives the overdrive function, the brightness of the light can reach several times the strobe light of the general dimmer.

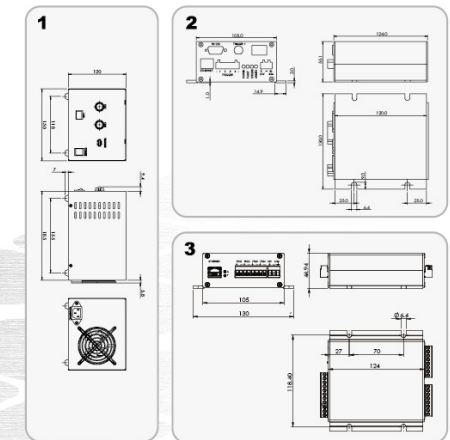
## Feature

1. Drive over frequency refers to greatly increasing the voltage and current passing through the light source, and instantly bursting out 3~5 times the luminous brightness.
2. 2CH/4CH, two communication interfaces (RS232 / Ethernet) for external control.
3. The constant light source can be converted into an over frequency light source for use.
4. Each channel can output up to 1A-4A(continuous) / 10A-40A (pulsed).
5. Dimming parameters can be adjusted by yourself.
6. Output voltage (DC24~48V).

## Dimensional Diagrams(mm)



## Dimensional Diagrams(mm)



# Power Supply for LED Light

## Power Supply for Spot Light

LED Light Source		GLC-DPI2 Series	
Indirect Lighting	Spot Lights	GL-HLV28 - GL-HLV2-28	GLC-DPI2-135
		GL-HLV2-24-3W	GLC-DPI2-170
		GL-HLV2-6040-5W	GLC-DPI2-1130
		GL-HLV3-24	GLC-DPI2-150
		GL-HLV28-A - GL-HLV2-28-A	GLC-DPI2-HLV
		GL-HLV2-24-3W-A	
	GL-HLV2-6040-5W-A		
GL-HLV3-24-A			
RGB Spot Lights	GL-HLV2-6040RGB-A	GLC-DPI2-4A	
	GL-HLV3-6045RGB-A		

## Constant Voltage Power Supply and PWM Power Supply for 24V Light

LED Light Source		GLC-DPI2-HLV	GLC-DPI2-4A	GLC-DPI2-16E	GLC-DPI2-170	GLC-DPI2-1100	GLC-RPI4-HLS4系列	GLC-RPI4-ARL54系列	GLC-RPI4-IPVL300	GLC-RPI4-HLS4-400	
Special Lighting	Triple Color Lights	GL-DIFV2-50RGB-C	V								
		GL-DIFV2-70RGB-C	V								
		GL-DADM2-6070RGB-C	V								
	LED UV Irradiation Curing Device	GL-UVC12-A			V						
		GL-PL68 series			V						
		GL-PL50 series				V					
Parallel Lights	GL-PL2 series				V						
	GL-PL3 series	V									
	GL-PL3 series										
Parallel Coaxial Lights	GL-PIFV series				V						
Wafer Lighting source	GL-WA70 series					V					
	GL-HLS4 series						V				
Indirect Lighting	Line Lights	GL-AHLS4 series (Air-Cooling)						V			
		GL-FHLS4 series (Fan-Cooling)						V			
		GL-THLS4 series (Tunnel-Type)						V			
	Line Coaxial Lights	GL-IFVL-200W							V		
GL-IFVL-200W-F									V		

## Constant Voltage Power Supply and PWM Power Supply for 24V Light

LED Light Source		GLC-PS2-24V10W Series	GLC-PP24V12W Series	GLC-PP24V24W Series	GLC-PD24V24W Series	GLC-PDE24V24W Series	GLC-PD24V30W Series	GLC-PD24V48W Series	GLC-PD24V100W Series
Direct Lighting	Direct Ring Series	GL-ZDR3210-24	V	V	V	V	V	V	V
		GL-ZDR4218-24	V	V	V	V	V	V	V
		GL-DR3210-24	V	V	V	V	V	V	V
		GL-DR4218-24	V	V	V	V	V	V	V
		GL-DR5028-24	V	V	V	V	V	V	V
		GL-DR6736-24	V	V	V	V	V	V	V
		GL-DR7035-24	V	V	V	V	V	V	V
		GL-DR9050-24	V	V	V	V	V	V	V
		GL-DR9550-24	V	V	V	V	V	V	V
		GL-DR12060-24	V	V	V	V	V	V	V
	Low Angle Direct Ring Series	GL-LDR4822-24	V	V	V	V	V	V	V
		GL-LDR7448-24	V	V	V	V	V	V	V
		GL-LDR10068-24	V	V	V	V	V	V	V
		GL-LDR13296-24	V	V	V	V	V	V	V
		GL-LDR170134-24	V	V	V	V	V	V	V
		GL-FDR7546-24	V	V	V	V	V	V	V
		GL-FDR8454-24	V	V	V	V	V	V	V
		GL-FDR12292-24	V	V	V	V	V	V	V
		GL-FDR156108-24	V	V	V	V	V	V	V
		GL-DB3010-24	V	V	V	V	V	V	V
Bar, Linear & Oblique Series	GL-DB8220-24	V	V	V	V	V	V	V	
	GL-DB11020-24	V	V	V	V	V	V	V	
	GL-DB16020-24	V	V	V	V	V	V	V	
	GL-DB21020-24	V	V	V	V	V	V	V	
	GL-DB26020-24	V	V	V	V	V	V	V	
	GL-DB31020-24	V	V	V	V	V	V	V	
	GL-DB6034-24	V	V	V	V	V	V	V	
	GL-DB11034-24	V	V	V	V	V	V	V	
	GL-DB26034-24	V	V	V	V	V	V	V	
	GL-DB4520-24	V	V	V	V	V	V	V	
Indirect Lighting	High Intensity Bar Light	GL-DB82020-24	V	V	V	V	V	V	V
		GL-HDB15028-24	V	V	V	V	V	V	V
		GL-HDB30028-24	V	V	V	V	V	V	V
		GL-ADM3030-24	V	V	V	V	V	V	V
		GL-ADM3060-24	V	V	V	V	V	V	V
		GL-ADM3090-24	V	V	V	V	V	V	V
		GL-ADM30120-24	V	V	V	V	V	V	V
		GL-ADM6060-24	V	V	V	V	V	V	V
		GL-ADM6090-24	V	V	V	V	V	V	V
		GL-ADM80120-24	V	V	V	V	V	V	V
	Backlight Series	GL-ADM9090-24	V	V	V	V	V	V	V
		GL-ADM90120-24	V	V	V	V	V	V	V
		GL-ADM120120-24	V	V	V	V	V	V	V
		GL-ADM90135-24	V	V	V	V	V	V	V
		GL-ADM90180-24	V	V	V	V	V	V	V
		GL-ADM90225-24	V	V	V	V	V	V	V
		GL-ADM90270-24	V	V	V	V	V	V	V
		GL-ADM90315-24	V	V	V	V	V	V	V
		GL-ADM90360-24	V	V	V	V	V	V	V
		GL-ADM135135-24	V	V	V	V	V	V	V
GL-ADM135180-24	V	V	V	V	V	V	V		
GL-ADM135225-24	V	V	V	V	V	V	V		
GL-ADM135270-24	V	V	V	V	V	V	V		
GL-ADM135315-24	V	V	V	V	V	V	V		
GL-ADM135360-24	V	V	V	V	V	V	V		
GL-ADM180180-24	V	V	V	V	V	V	V		
GL-ADM180225-24	V	V	V	V	V	V	V		
GL-ADM180270-24	V	V	V	V	V	V	V		
GL-ADM180315-24	V	V	V	V	V	V	V		
GL-ADM180360-24	V	V	V	V	V	V	V		
GL-ADM225225-24	V	V	V	V	V	V	V		
GL-ADM225270-24	V	V	V	V	V	V	V		
GL-ADM225315-24	V	V	V	V	V	V	V		
GL-ADM225360-24	V	V	V	V	V	V	V		
GL-ADM270270-24	V	V	V	V	V	V	V		
GL-ADM270315-24	V	V	V	V	V	V	V		
GL-ADM270360-24	V	V	V	V	V	V	V		
GL-ADM315315-24	V	V	V	V	V	V	V		
GL-ADM315360-24	V	V	V	V	V	V	V		
GL-ADM360360-24	V	V	V	V	V	V	V		



LED Light Source		GLC-PS2-24V10W Series	GLC-PP24V12W Series	GLC-PP24V24W Series	GLC-PD24V24W Series	GLC-PDE24V24W Series	GLC-PD24V30W Series	GLC-PD24V48W Series	GLC-PD24V100W Series
High Directivity Backlights	GL-DADM9030-24								
	GL-DADM9060-24								
	GL-DADM9090-24								
	GL-DADM120120-24								
	GL-PR6739-24								
	GL-PR6959-24								
	GL-PR136108-24								
	GL-PR21080W-24								
	GL-PR260165WG-24								
	GL-LFR7420-24								
	GL-DO5411-24								
	GL-DO9416-24								
	GL-LFR10233-24								
	GL-LFR12544-24								
	GL-SRL7420-24								
GL-SRL10233-24									
GL-SRL12544-24									
GL-FPQ4848-24									
GL-FPQ7575-24									
GL-FPQ152152-24									
GL-IFV20-24									
GL-IFV34-24									
GL-IFV40-24									
GL-IFV50-24									
GL-IFV70-24									
GL-IFV100-24									
GL-IFV200-24									
GL-IFV234-24									
GL-DIFV20-24									
GL-DIFV34-24									
GL-DIFV40-24									
GL-DIFV50-24									
GL-DIFV70-24									
GL-DIFV100-24									
GL-DIFV130-24									
GL-DIFV230-24									
GL-DIFV240-24									
GL-DIFV250-24									
GL-DIFV270-24									
GL-DIFV2100-24									
GL-DO8454-24									
GL-DO12292-24									
GL-DO156108-24									
GL-DO266210-24									
GL-DO2424360-24									
GL-ADO10454-24									
GL-ADO12292-24									
GL-ADO156108-24									
GL-FDO50-24									
GL-FDO100-24									
GL-FDO200-24									
GL-FDO250-24									
GL-FDO2100-24									
GL-FDO2200-24									
GL-DSQ2-150150-24									
GL-DSQ2-208208-24									
GL-DSQ2-300300-24									
GL-DSO150150-24									
GL-DSO208208-24									
GL-DSO300300-24									
GL-DB2-6030UV365-24									
GL-DB2-6030UV405-24									
GL-DB2-31030UV365-24									
GL-DR2-6030UV365-24									
GL-DR2-10030UV365-24									
GL-LDR2-10080UV365-24									
GL-IFV2-20UV324									
GL-IFV2-20UV395-24									
GL-IFV2-34UV324									
GL-IFV2-34UV395-24									
GL-DR4218UV365-24									
GL-DR5028UV365-24									
GL-DR6736UV365-24									
GL-DR7035UV365-24									
GL-DR9050UV365-24									
GL-LDR7448UV365-24									
GL-LDR10068UV365-24									
GL-DB6020UV365-24									
GL-DB6020UV324									
GL-DB11020UV365-24									
GL-DB16020UV365-24									
GL-DB21020UV365-24									
GL-DB26020UV365-24									
GL-DB31020UV265-24									
GL-IFV34UV-24									
GL-IFV40UV365-24									
GL-IFV40UV-24									
Infrared Lights	GL-DADM2-6060IR-24								

Optional Accessories for LED Light Source

Diffusion Plate

Model	Light Source
AL-DR3210-DP	GL-DR3210
AL-DR4218-DP	GL-DR4218
AL-DR5028-DP	GL-DR5028
AL-DR6736-DP	GL-DR6736
AL-DR6746-DP	GL-DR6746
AL-DR7035-DP	GL-DR7035
AL-DR9050-DP	GL-DR9050
AL-DR950-DP	GL-DR950
AL-DR12060-DP	GL-DR12060
AL-DR16595-DP	GL-DR16595
AL-LDR4822-D	GL-LDR4822
AL-LDR5028-D	GL-LDR5028
AL-LDR7448-D	GL-LDR7448
AL-LDR10068-D	GL-LDR10068
AL-LDR13296-D	GL-LDR13296
AL-LDR170134-D	GL-LDR170134
AL-FDR7546-D	GL-FDR7546
AL-FDR8454-D	GL-FDR8454
AL-FDR12292-D	GL-FDR12292
AL-FDR156108-D	GL-FDR156108
AL-DB4520-DP	GL-DB4520
AL-DB8020-DP	GL-DB8020
AL-DB6020-DP	GL-DB6020
AL-DB11020-DP	GL-DB11020-4
AL-DB16020-DP	GL-DB16020
AL-DB21020-DP	GL-DB21020
AL-DB26020-DP	GL-DB26020
AL-DB31020-DP	GL-DB31020
AL-DB36020-DP	GL-DB36020
AL-DB41020-DP	GL-DB41020
AL-DB46020-DP	GL-DB46020
AL-DB51020-DP	GL-DB51020
AL-DB6034-DP	GL-DB6034
AL-DB11034-DP	GL-DB11034
AL-DB16034-DP	GL-DB16034

Adapter

Model	Light Source
AL-DB21034-DP	GL-DB21034
AL-DB26034-DP	GL-DB26034
AL-DB31034-DP	GL-DB31034
AL-HDB15028-DP	GL-HDB15028
AL-HDB30028-DP	GL-HDB30028
AL-MC9050-DP	GL-MC9050W
Model	Spec.
GLA-LAR18	GL-DR6736
GLA-LAR32	GL-DR6736
GLA-LAR50	GL-DR9050
GLA-LAR4218-M27	GL-DR4218
GLA-LAR4822-M25.5	GL-DR4822
GLA-LAR5028	GL-DR5028
GLA-LAR6736	GL-DR6736
GLA-LAR7035-M25.5	GL-DR7035
GLA-LAR7035-M27	GL-DR7035
GLA-LAR7035-M30.5	GL-DR7035
GLA-LAR9050-M27	GL-DR9050
MLA-IFV20-M25.5	
MLA-IFV20-M27	GL-IFV20
MLA-IFV20-M30.5	
MLA-IFV34-M25.5	
MLA-IFV34-M27	GL-IFV34
MLA-IFV34-M30.5	
MLA-IFV40-M25.5	
MLA-IFV40-M27	GL-IFV40
MLA-IFV40-M30.5	
MLA-IFV50-M25.5	
MLA-IFV50-M27	GL-IFV50
MLA-IFV50-M30.5	
MLA-IFV70-M25.5	
MLA-IFV70-M27	GL-IFV70
MLA-IFV70-M30.5	

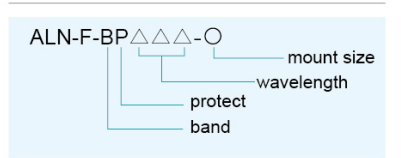




Extension Cord

Model	Length	Model	Length
AL-ESM2P1M-W	1M	AL-ESM3P1-4-W	0.2M
AL-ESM2P2M-W	2M	AL-ESM2PM3PFV4-W	0.2M
AL-ESM2P3M-W	3M	AL-ESM3PM2PF-W	0.2M
AL-ESM2P5M-W	5M	AL-LV14DWNV-W	0.3M
AL-ESM2P9M-W	9M	AL-LV14DWNV24-W	0.3M
AL-RESM2P1M-W	1M	AL-EPLT168-1M-W	1M
AL-RESM2P2M-W	2M	AL-EPLT168-2M-W	2M
AL-RESM2P3M-W	3M	AL-EPLT168-3M-W	3M
AL-RESM2P5M-W	5M	AL-EPLT168-5M-W	5M
AL-RESM2P9M-W	9M	AL-EPLT168-9M-W	9M
AL-ESM3P1M-W(HLV)	1M	AL-REPLT168-1M-W	1M
AL-ESM3P2M-W(HLV)	2M	AL-REPLT168-2M-W	2M
AL-ESM3P3M-W(HLV)	3M	AL-REPLT168-3M-W	3M
AL-ESM3P5M-W(HLV)	5M	AL-REPLT168-5M-W	5M
AL-ESM3P9M-W(HLV)	9M	AL-REPLT168-9M-W	9M
AL-RESM3P1M-W	1M		
AL-RESM3P2M-W	2M		
AL-RESM3P3M-W	3M		
AL-RESM3P5M-W	5M		
AL-RESM3P9M-W	9M		
AL-ESM4P1M-W	1M		
AL-ESM4P2M-W	2M		
AL-ESM4P3M-W	3M		
AL-ESM4P5M-W	5M		
AL-ESM4P9M-W	9M		
AL-RESM4P1M-W	1M		
AL-RESM4P2M-W	2M		
AL-RESM4P3M-W	3M		
AL-RESM4P5M-W	5M		
AL-RESM4P9M-W	9M		
AL-EUT2P2M-W	2M		
AL-EUT2P3M-W	3M		
AL-ETBD4P2M-W	2M		
AL-RETBD4P10M-W	10M		
AL-ETBD4P5M-W	5M		
AL-ESM2P1-2-W	0.2M		
AL-ESM2P1-4-W	0.2M		
AL-ESM3P1-2-W	0.2M		

Model explanation



Outline

The filter is to prevent the influence of external ambient light, and only allow light of a specific range of wavelengths to pass through.

Feature

1. Special coating technology can increase light transmittance and reduce light reflection
2. 3 sizes for lens interface: M25.5/M27.0/M30.5
3. Totally 24 types of filters



Model	ALN-F-BP365-25.5/27/30.5
Color	Ultraviolet
Lens Material	Glass
Wavelength Range	350~395nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 75%



Model	ALN-F-BP850-25.5/27/30.5
Color	Infrared
Lens Material	Glass
Wavelength Range	820~910nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 90%



Model	ALN-F-BP470-25.5/27/30.5
Color	Blue
Lens Material	Glass
Wavelength Range	420~490nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 90%



Model	ALN-F-BP940-25.5/27/30.5
Color	Infrared
Lens Material	Glass
Wavelength Range	930~1,100nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 90%



Model	ALN-F-BP525-25.5/27/30.5
Color	Green
Lens Material	Glass
Wavelength Range	500~550nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 88%



Model	ALN-F-BPV5-25.5/27/30.5
Lens Material	Glass
Wavelength Range	410~690nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 90%

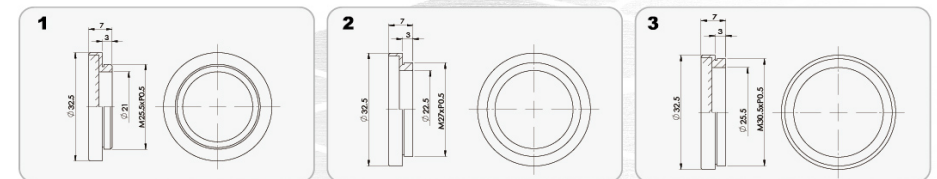


Model	ALN-F-BP625-25.5/27/30.5
Color	Red
Lens Material	Glass
Wavelength Range	615~700nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 88%



Model	ALN-F-PROTECT-25.5/27/30.5
Lens Material	Glass
Wavelength Range	350~1000nm
Wavelength Tolerance	+/- 10nm
Light Transmittance	> 95%

Dimensional Diagrams(mm)



## Polarizing Filter

### Overview

The polarizing filter mainly absorbs horizontal reflected glare, filtering out part of the light while allowing some light to pass through.

### Features

1. Available in three lens interface sizes: M25.5 / M27.0 / M30.5
2. Three models of polarizing filters are available.

### Available Models

- 1.ALN-F-PL-25.5
- 2.ALN-F-PL-27.0
- 3.ALN-F-PL-30.5



## Polarizing Plate

### Overview

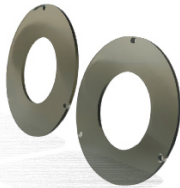
When used in conjunction with a polarizing filter, it can eliminate surface reflections.

### Features

Ten models of polarizing plates available.

### Available Models

- 1.AL-ZDR3210-PL
- 2.AL-ZD4218-PL
- 3.AL-DR3210-PL
4. AL-DR4218-PL
5. AL-DR5028-PL
6. AL-DR6736-PL
7. AL-DR9050-PL
8. AL-DR12060-PL
9. AL-DR7035-PL
10. AL-DR9550-PL



## Optional Accessories for CCD - Extension Tube

Model	Spec.
ALN-EXT-05	0.5mm
ALN-EXT-10	1.0mm
ALN-EXT-20	2.0mm
ALN-EXT-50	5.0mm
ALN-EXT-100	10.0mm
ALN-EXT-200	20.0mm
ALN-EXT-400	40.0mm

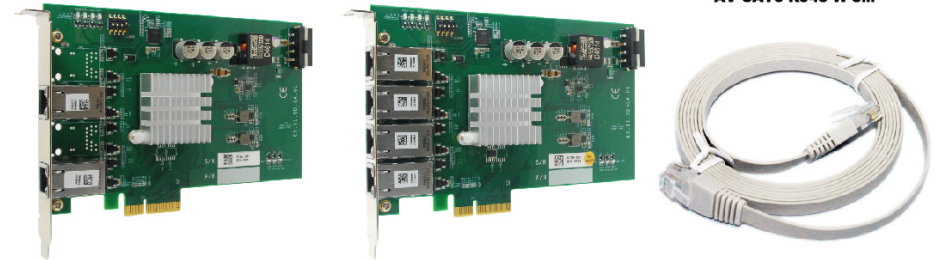


## Optional Accessories for CCD- POE Card

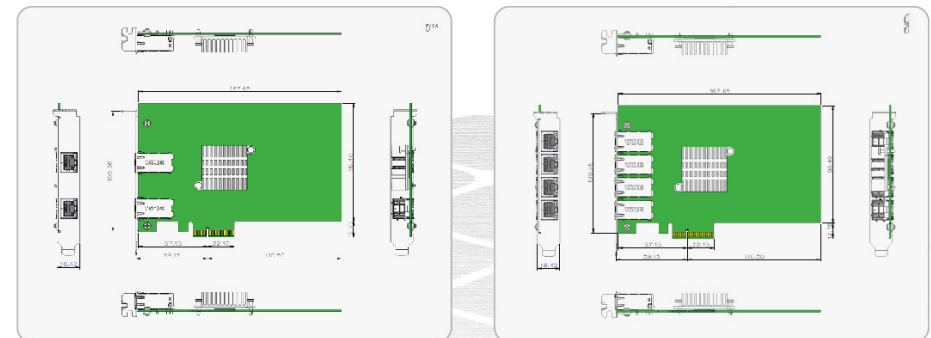
AV-PCIE-POE2

AV-PCIE-POE4

AV-CAT6-RJ45-W-3M  
AV-CAT6-RJ45-W-5M



### Dimensional Diagrams(mm)









Tokyo HQ Registered



www.computar.com

Tokyo HQ Registered



www.computar-global.com

For more detailed information, please visit 3AM's website, or contact with the sales representatives from 3AM.

[www.3amled.com](http://www.3amled.com)