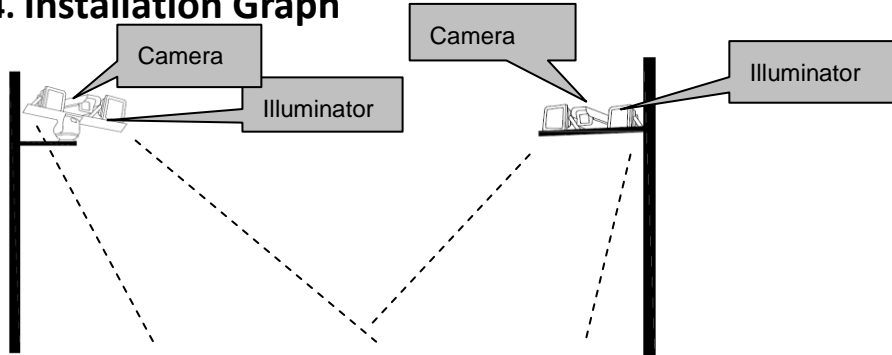


#### 4. Installation Graph



#### 5. Installation Instruction and Warning

1. The product includes fragile parts. Take care on every transportation steps and hold carefully, do not stress!
2. Make sure the installation position can takes 10 times the weight of product
3. Don't turn on the power of product before installation is done to avoid electric shock, the outlet of power wire should be installed downward.
4. Through the installation hole on the mounted bracket, the product can be directly fixed on pole or surface by screws.
5. Adjust the angle of product by loosening screws on bracket, camera and illuminator should be installed to the same horizontal and vertical direction.
6. Link power wires tightly and make it waterproof to avoid electric shock.
7. Connect with extra power wire should make it waterproof at the same.
8. Don't use against any fire precaution rules during operation.
9. Installation requested professional operation and qualified personnel.
10. Before power on, make sure the input voltage is the same as required voltage showing on label to avoid damage of product.
11. If the product voltage is above safety voltage 36V, please install it away from crowd, dispose the grounding of earth wire and make sure lightning protection is done.
12. To ensure the life time of product, please do not install in salt, acid, fog environment.
13. Connect our sales person if you need additional parts for installation.

#### Maintenance

1. Cut off power before maintenance.
2. Clean the glass regular to get better transmission of light.
3. Clean the housing to get well heat dissipation performance.
4. Clean by dry dishcloth, don't use water or strong corrosive solution.

*To provide you more valuable lighting products*

## Instruction Manual LED Illuminator



**Thank you for purchasing our product! To make sure the product could have good performance and work stable, you should know more about the product. Please read this working instruction carefully before operation.**

# 1. Introduction

- Feature** Precise secondary optical technology, excellent luminous efficiency, more uniform illumination
- Housing** Patent design, easy installation, direct cooling, excellent heat dissipation
- Usage** Improve night-time images of CCTV camera
- Application** Intelligent traffic, toll gate, parking lot, security surveillance and other occasions for fill light
- Quality Guarantee** High quality component, ISO9001 quality management system, authorities certification testing

# 2. Technical Specifications

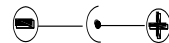
- Wavelength** White light: 450~465nm, color temperature 5500K-6500K  
Infrared light: 850nm is standard, 740nm/940nm can be customized
- Beam angle** 15°, 30°, 45°, 60°, 90°, 120° (see label)
- Distance** Short range (0-50m)  
Medium range (50-100m)  
Long range (100-200m)  
Extra long range (more than 200m)
- Operate method** Built-in light sensor (10lux-20lux), constant lighting, customized
- Power supply** AC110-220V (±10%) frequency: 50-60Hz, AC165-220V (±10%), AC110V(±10%), AC 24V, DC 12V, PoE
- Power consumption** AC24V/DC12-24V label with input voltage(V) and current(A)  
AC110-220V label with input voltage(V) and power consumption(W)  
PoE label with power consumption(W)
- Cable length** AC110-220V: 120cm, country standard plug/no plug, 3pin  
Blue line-Null line, brown red line-Live line, yellow green line-Ground line



AC24V/DC12-24V: DC plug 5.5\*2.1mm, 45cm



AC24V: the lines are both positive and negative  
DC12V: the lines has positive and negative



PoE: RJ45, 45cm

- Cooling method** Direct cooling, air cooling internal circulation
- Protection level** IP65 or above IP65
- Color** Black, White, Beige, Silver and Grey
- Installing bracket** Universal U type bracket
- Installation method** Universal tripod, PTZ, universal joint
- Ambient temperature** -20° to 50° C, -40° to 50° C

**Ambient humidity** 10-90%RH

**Front panel** Toughened glass, PC

**Body construction** Die casting aluminum

**Produce standard** GB24819-2009

GAT1202-2014-“The fill light transportation technology monitoring imaging equipment general technical specifications”

\*Detail specification are subject to the model purchased.

# 3. Focal length, angle and distance (See Chart)

Optimum distance in relation to the focal length, angle and camera lens based on a 1.7m object occupying 1/4 height of the screen.

Focal length(mm)	Lens Aperture	Close-up distance(m)	Image sensor size	Horizontal viewing angle	Optimum distance(m)
75~80	F/1.8	0.2	1/3" CCD	4°	150m
60~75	F/1.8	0.2	1/3" CCD	4°~5°	120m
50~55	F/1.8	0.2	1/3" CCD	5°	100m
40~45	F/1.8	0.2	1/3" CCD	6°	80m
35~40	F/1.7	0.2	1/3" CCD	7°	70m
30~35	F/1.7	0.2	1/3" CCD	12°	60m
25~30	F/1.4	0.2	1/3" CCD	12°	50m
20~25	F/1.4	0.2	1/3" CCD	14°	40m
16~20	F/1.4	0.2	1/3" CCD	17°	30m
12	F/1.4	0.2	1/3" CCD	22°	25m
8	F/1.4	0.2	1/3" CCD	33°	20m
6	F/1.2	0.2	1/3" CCD	51°	10m
4	F/1.2	0.2	1/3" CCD	76°	8m

\*Focal and angle can be calculated according to the Chart. The distances and performance depend on camera/lens used and on the environmental conditions.

\*To achieve the distance needed please have a sample testing before mass purchase.

\*We keen to ensure the accuracy and completeness of content, but we couldn't complete tests of all application area, any mistake are expected to be corrected.

\*Specifications subject to change without notice.

\*LED performance is subjected by the camera and lens using, please testing a sample before purchase in bulk.