LED IR Illuminator Manual

INTRODUCTION:

Our InfraRed illuminator works in combination with your existing network or HD analog cameras, assisting them to produce high quality images around the clock (even in near darkness) without attracting attention. The low power consumption of the solid-state LEDs results in very low running costs for the system, as well as increasing reliability. Our high quality IR illuminators can be used both indoors and outdoors.

WHAT IS IR ILLUMINATION?

Infrared is energy which is invisible to the human eye (also known as 'thermal radiation', it can be felt as heat from the sun or a campfire) but can still be detected by a high quality black and white or a true day/night camera with the IR cut filter removed. The energy emitted by IR illuminators resides just outside the visible red section of the electromagnetic spectrum, and is totally safe with a wavelength of ~700nm to 1mm. Our illuminator operates at approximately 850nm (0.00085 millimetres).

IR illumination is an ideal source of illumination for our security cameras for the following reasons:

-It is invisible to the human eye yet visible to compatible cameras, which makes it ideal as a covert/non-obtrusive form of illumination.

-Because it is invisible to humans, it does not cause noticeable light pollution.

-It has a longer range than visible light due to the higher wavelength, meaning more coverage per system.

-It can operate in complete darkness effectively.

The illuminators are designed to provide superior IR lighting for CCTV systems. They are produced with sufficient adjustability to effectively fulfil varied applications. Made to the IP66 weatherproof rating for outdoor use, the tempered glass panel and die-cast aluminium housing provide protection from the harshest weather conditions and rapid temperature variations, ranging from -20°C (-4°F) to 65°C (150°F).

CAUTION!

To achieve the range desired, please pay attention to your camera and lens specifications prior to purchase. IR illuminators require a true day/night camera with mechanical IR cut filter. Operational distances may vary due to different camera and lens specifications.
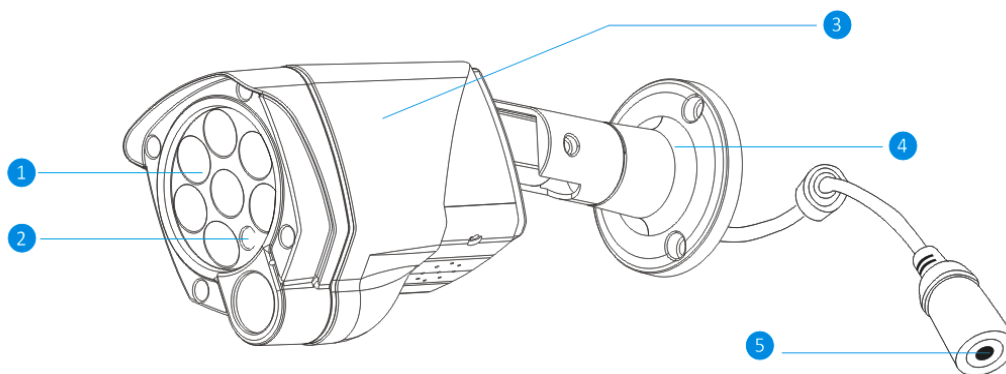
WHAT'S INCLUDED?

1	IR Illuminator	1pc
2	Power Adaptor	1pc
3	Manual	1pc
4	Mounting Kit w/hardware	1pc

PRODUCT FEATURES

-Improves compatible camera image quality in low-light situations and in complete darkness.

-Dawn and Dusk automatic power on/off switching.

-Range of up to 100 feet (30m) for CCTV camera's night vision.

-850nm IR wavelength with a beam angle of 90 degrees.

-IP66 weatherproof rating.

-Ultra-long life-time (5+ years).

-12 Volts DC, 1 Amp power input.

-Low power consumption (5-6 Watts).

APPEARANCE

1	IR Led	8-section array of IR LEDs
2	Light Sensor	Detects the amount of light available and turns on the IR LEDs when necessary
3	Body	Black/White optional
4	Mounting Bracket	Adjustable mount can be affixed to any flat surface with supplied hardware.
5	Power Connector	12V DC, 1A input

SPECIFICATIONS

1	Material	Die-cast aluminium and tempered glass
2	Colour	Black/White optional
3	Connections	IEC 60130-10 Type-A(5.5mm Outside Diameter x 2.1mm Inside, Male)
4	Power Supply	12V DC, 1A
5	Power Consumption	5-6W (When IR LED is operating)
6	Operating Environment	-20°C (-4°F) to 65°C (150°F)
7	Night Vision Distance	Up to 30 metres (100 feet)
8	IR LED wavelength	850nm (0.00085mm)
9	Angle of light beam	90 degrees