

Our infra-red illuminators allow a CCD camera to see in complete darkness and in situations of poor visibility.

They take advantage of the near-infra-red light spectrum (760~1000nm). The light spectrum which is visible to the human eye ranges from 400 nm to 760 nm (Visible Light Spectrum). Black and white CCD cameras are able to operate in both visible and near-infra-red light spectrums. Colour cameras normally feature an IR cut-out filter which limits operation to the visible light spectrum. This is because daylight conditions contain varying amounts of IR light and in order to provide the most accurate colour reproduction, one needs to filter out all or certain infra-red light.

Modern day/night cameras which switch from colour to black and white either feature a motorised filter which is removed in black and white mode or a fixed IR filter which only removes certain IR light during daylight. Many factors influence IR illuminator performance. These include other

light sources in the area, surface colour, surface reflection and more. To improve performance, it is recommended to mount the units in a position from which the infra-red light is able to reflect off a surface and not simply 'pointed-in-the-air'. Other recommendations include using a black and white or day/night camera with a EX-View CCD chip and an IR compatible lens with low F-stop such as our E-I 3VG28 I ASIR. This lens provides focused images in both visible and near-infra-red light spectrums.

Typical applications for illuminators include use in covert observation systems, discrete monitoring of offices and warehouses at night and for perimeter security protection where lighting is poor or difficult to implement.

We offer some models of the illuminators in 880 nm and some in 940 nm. The 880 nm versions provide a longer range, but are slightly visible to the human eye with a slight red glow. For more covert surveillance applications, the 940 nm illuminators are better suited as the IR is invisible to the human eye.

E-IR Infra-Red LED Illuminators

These infra-red illuminators have been designed with reliability and long use in mind. They feature long life luminodiodes with integrated forming optics and special light filter. Constructed of aluminum alloy, the housings have been designed with optimised heat dissipation in mind and can operate in a wide temperature range. They are powder-coated and black in colour. O-ring seals provide IP65 protection and allow the units to be used indoors or outdoors. A mounting bracket is supplied with each unit.



- ⊕ Ideal for Covert & Night Vision Applications
- ⊕ IP65 Outdoor Weatherproof rated
- ⊕ Aluminium alloy construction with black powder coating
- ⊕ Luminodiode Irradiators used
- ⊕ Several illumination range & angles to choose from
- ⊕ 880 nm or 940 nm models available
- ⊕ Custom models available
- ⊕ -30° to +40°C Operating Temperature



SPECIFICATIONS	E-IRSCREW-880
Viewing Angle	120°
Illumination Range (Max)	2 Metres
Wavelength	880nm
Input Voltage Range	12VDC
Power Consumption	150mA
Indoor or Outdoor	Outdoor - Metal Surface
Weight	50g
Dimensions	20 x 12 x M10 (screw)



SPECIFICATIONS	E-IRSCREW-940
Viewing Angle	120°
Illumination Range (Max)	1.5 Metres
Wavelength	940nm
Input Voltage Range	12VDC
Power Consumption	150mA
Indoor or Outdoor	Outdoor - Metal Surface
Weight	50 g
Dimensions	20 x 12 x M10 (screw)

E-IR112-120-880



SPECIFICATIONS	E-IR112-120-880
Viewing Angle	20°
Illumination Range (Max)	80 Metres
Wavelength	880nm
Input Voltage Range	12VDC
Power Consumption	1.6A
Indoor or Outdoor	Outdoor
Weight	800 g
Dimensions	180 x 96 x 29 mm

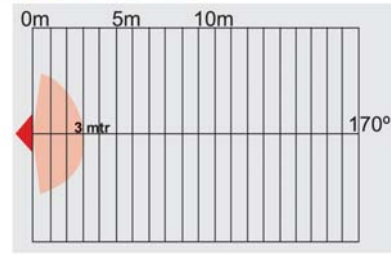
E-IR Illumination Table

E-IRPLATE-940



SPECIFICATIONS	E-IR-PLATE-940
Viewing Angle	170°
Illumination Range (Max)	3 Meters
Wavelength	940nm
Input Voltage Range	12VDC
Power Consumption	400mA
Indoor or Outdoor	Indoor
Weight	100 g
Dimensions	95 x 80 x 6 mm

IR-PLATE-940

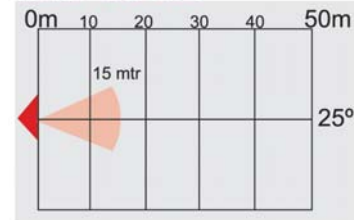


E-IR21-25



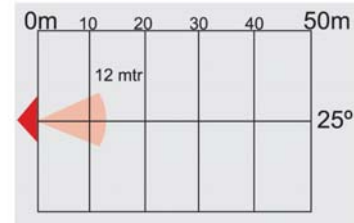
SPECIFICATIONS	E-IR21-25-880
Viewing Angle	25°
Illumination Range (Max)	15 Meters
Wavelength	880nm
Input Voltage Range	12VDC
Power Consumption	200mA
Indoor or Outdoor	Outdoor
Weight	150g
Dimensions	75 x 35 x 30 mm

IR21-25-880



SPECIFICATIONS	E-IR21-25-940
Viewing Angle	25°
Illumination Range (Max)	12 Meters
Wavelength	940nm
Input Voltage Range	12VDC
Power Consumption	200mA
Indoor or Outdoor	Outdoor
Weight	150 g
Dimensions	75 x 35 x 30 mm

IR-21-25-940

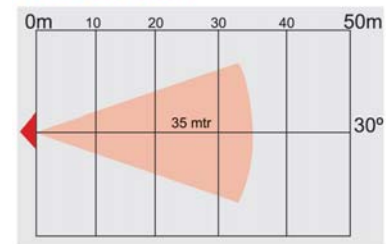


E-IR84-30



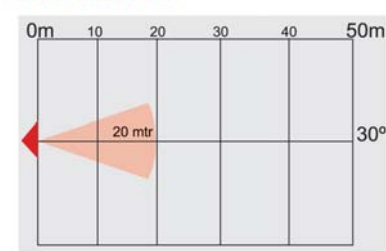
SPECIFICATIONS	E-IR84-30-880
Viewing Angle	30°
Illumination Range (Max)	35 Meters
Wavelength	880nm
Input Voltage Range	12VDC
Power Consumption	1000mA
Indoor or Outdoor	Outdoor
Weight	900 g
Dimensions	90 (dia) x 90 (L) mm

IR84-30-880



SPECIFICATIONS	E-IR84-30-940
Viewing Angle	30°
Illumination Range (Max)	20 Meters
Wavelength	940nm
Input Voltage Range	12VDC
Power Consumption	1000mA
Indoor or Outdoor	Outdoor
Weight	900 g
Dimensions	90 (dia) x 90 (L) mm

IR84-30-940

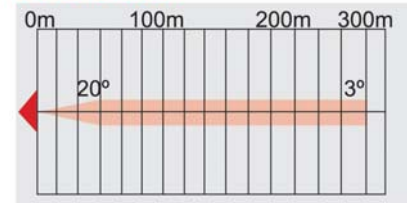


E-IR16-5



SPECIFICATIONS	E-IR16-5-880
Viewing Angle	5°
Illumination Range (Max)	100 Meters
Wavelength	870nm
Input Voltage Range	12VDC
Power Consumption	300mA
Indoor or Outdoor	Outdoor
Weight	900 g
Dimensions	180 x 155 x 140 mm

IR16-5-880



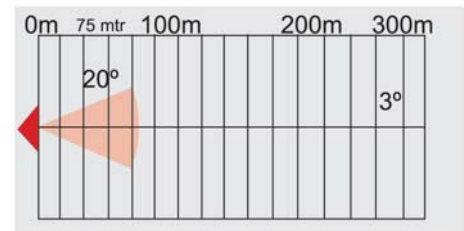
E-IR294-20



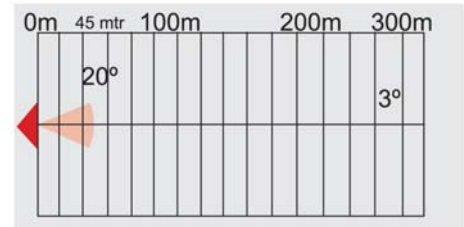
SPECIFICATIONS	E-IR294-20-880
Viewing Angle	20°
Illumination Range (Max)	75 Meters
Wavelength	880nm
Input Voltage Range	12VDC
Power Consumption	3500mA
Indoor or Outdoor	Outdoor
Weight	1.5 Kg
Dimensions	133 x 65 x 205 mm

SPECIFICATIONS	E-IR294-20-940
Viewing Angle	20°
Illumination Range (Max)	45 Meters
Wavelength	940nm
Input Voltage Range	12VDC
Power Consumption	3500mA
Indoor or Outdoor	Outdoor
Weight	1.5 Kg
Dimensions	133 x 65 x 205 mm

IR-294-20-880



IR-294-20-940



E-IR530 SERIES

Infra-Red Long Range Laser Illuminators

The E-IR530 series are a range of long range infra-red illuminators based around laser diode technology. They are suitable for use with B/W or Day/Night CCD cameras which have infra-red sensitive/compatible CCD sensors. One can also use these in conjunction with night vision sights to improve visibility.

Several models are available to choose from with different output power and different ranges. The main advantage over LED illuminators is the long range. The smallest model, the E-IR530 has a range of 100 metres and the E-IR530-L an amazing range of 1000 metres. An LED illuminator to cover a similar range would be 10x or 100x larger. All models feature a high quality lens with manual angle adjustment. The E-IR530-L in addition features a 3-level output power adjustment which allows the user to adjust the laser output from 50mW to 150mW and finally to 450mW.

Extremely compact these Russian made illuminators are rugged and designed for use by law enforcement or military personnel.

The E-IR530-1/-2 and -1000 models operate of 2 x AAA batteries. While the E-IR530-L operates off an external 12VDC supply through a 2.1 mm DC socket.

- ⊕ Ideal for Covert & Night Vision Applications
- ⊕ IP65 Outdoor Weatherproof rated
- ⊕ Aluminium alloy construction with black powder coating
- ⊕ Luminodiode Irradiators used
- ⊕ Several illumination range & angles to choose from
- ⊕ 870 ~ 880 nm or 940 ~ 950 nm models available
- ⊕ -30° ~ +40°C Operating Temperature



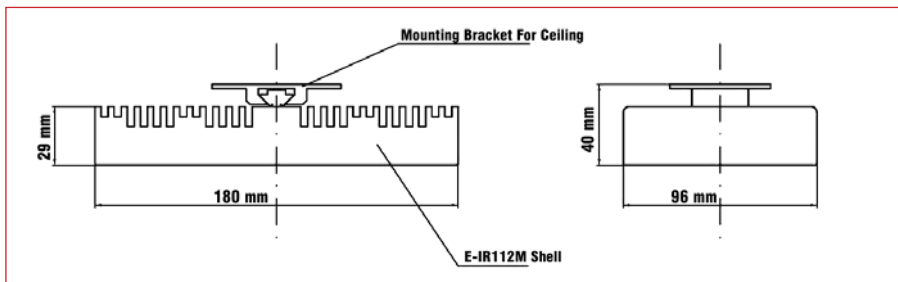
MODEL	RANGE	FREQUENCY	POWER OUTPUT	ANGLE	WEIGHT	DIMENSIONS	VOLTAGE	BATT LIFE
E-IR530-1	100 Mtr	800nm	35mW	10 ~ 25°	50 g	90 x 30 mm	3 Volt	2 x AAA for 6 Hours
E-IR530-2	400 Mtr	800nm	35mW	2 ~ 10°	80 g	117 x 32 mm	3 Volt	2 x AAA for 6 Hours
E-IR530-L	1000 Mtr	870nm	150mW	3 ~ 8°	160 g	124 x 32 mm	3 Volt	2 x AAA for 1 Hour
E-IR530-L-940	1000 Mtr	940nm	150mW	3 ~ 8°	160 g	124 x 32 mm	3 Volt	2 x AAA for 1-2 Hours
E-IR530-1000	1000 Mtr	870nm	450mW	1 ~ 3°	0.4 Kg	150 x 51 mm	12VDC Ext.	-
E-IR530-1000-940-05W	600 Mtr	940nm	500mW	1 ~ 3°	0.4 Kg	150 x 51 mm	12VDC Ext.	-
E-IR530-1000-940-1W	600 Mtr	940nm	1W	1 ~ 3°	0.4 Kg	150 x 51 mm	12VDC Ext.	-

E-IR112M 8 x 8 Metre Room Infra-Red LED Illuminator

This infra-red illuminator is intended for covert room illumination in conditions of poor lighting or when there is an absence of lighting. Featuring powerful LEDs, the unit can be ceiling mounted and will cover an 8 by 8 metre area. This massive range allows one to place CCTV cameras at any suitable location to monitor the room. Designed with offices and homes in mind, the **E-IR112M** provides a wide angle beam, like a ceiling mounted light. As with all IR illuminators, for best performance it is recommended to use them with low light black and white cameras only.

The unit is housed in an IP65 aluminium-alloy enclosure and includes a plate for ceiling mounting.

MODEL	E-IR112M-20-880
IR Range	8 x 8 Metres
IR Angle	120°
Wavelength	880nm (Slight Red Glow on Illuminator)
Operating Temp.	-30 to +40° C
Power Consumption	12VDC@1.6A
Weight	0.8 Kg
Dimensions	180 x 96 x 29 mm



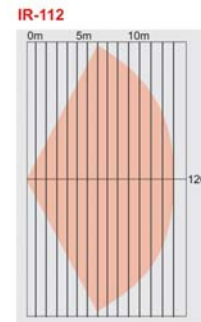
IP-65



E-IR112M Front View
Room Infra-red Illuminator



E-IR112M Rear View



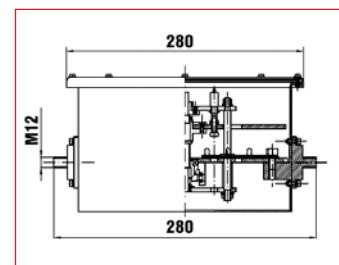
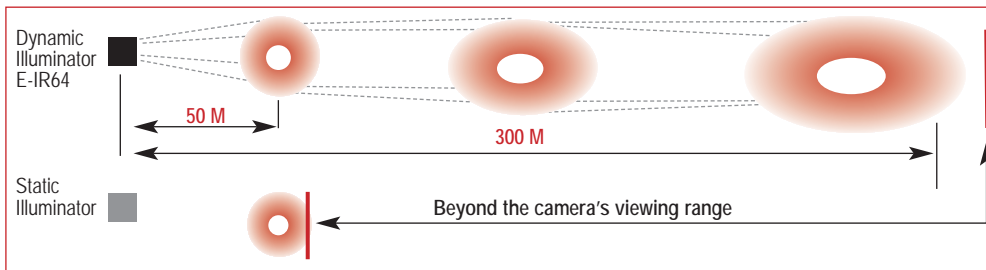
E-IR64 Long Range Adjustable Infra-Red LED Illuminator

This IR Illuminator pushes the range of infra-red illumination beyond the limit that is currently available. Using the **E-IR64** with IR-sensitive CCD cameras, one can achieve ranges of upto 300 metres! This is all possible with an illuminator that uses LED technology in place of traditional power hungry bulb illuminators which would have required a small power station to run.

The E-IR64 features special adjustable optics and mechanics, which allow the user to adjust the range and angle to suit his monitoring purposes. Using adjustable optics, the 4 LED matrixes are manipulated to provide various angles and ranges. This makes the illuminator ideal for use with zoom cameras which have a constantly changing field of view. Control of this functionality is via a wired remote which can be placed upto 300 metres away from the illuminator.

Housed in an IP65 aluminium-alloy enclosure, it has a plastic front filter and includes a mounting bracket, power supply and remote control. The range control is wireless and allows remote on/off control adjustment of illuminator angle.

IP-65



MODEL	E-IR64
IR Range	0 ~ 300 Mtrs (Depending on Adjustment)
IR Angle	20° ~ 3° (Depending on Adjustment)
Wavelength	880nm (Slight Red Glow on Illuminator)
Adjustment Time	18 sec max
Remote Max Length	300 Meters
Operating Temp.	-30° to +40° C
Power Consumption	12VDC@1.2A ~ 3A
Weight	4.8 Kg
Dimensions	310 x 280 x 160 mm

