iluminar

IR312-2 Series

Product Features

- Medium range IR illuminator
- SMT LED technology
- Distances up to 312' (95m)
- Angles 10°, 30°, 60°, 100°& 120°
- 850nm or 940nm Wavelengths
- Low power consumption (24W)
- Long life
- 5 yearwarranty
- IP67 weatherproof rating
- Built-in photocell IR on/off
- Telemetry input for remote switching
- 12-32VDC or 24VAC input

What is IR Illumination?

Active or near infra-red (NIR) illumination is energy which is invisible to the human eye but can be seen by a high quality true day/night camera (IR cut filter removed). The energy from IR illuminators resides just outside the visible red section of the electromagnetic spectrum, above 700nm and below 1000nm.

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

- It is invisible to the human eye but visible to black/white and true day/night cameras.
- Avoids the problem of light pollution.
- Longer range than visible light

All Iluminar illuminators provide superior IR lighting for video surveillance systems. They are available with a range of angles to cover different distances and scenes.

Supplied with an IP67 rating, they are vandal proof and can be used indoors and outdoors. The anodized aluminum housing provides protection from the harshest weather conditions.

Professional Illuminators vs Camera Built-in Illuminators

There are many advantages of using separate, professional illuminators versusbuilt-in camera infrared illuminators

- Longer life on the LED's
- No hot spots
- Wider angles
- Longer range
- Avoids attracting insects to obscure camera view

Models

Model Number	Wavelength	Angle	Distance		HOV	
IR312-A10-24-2	850nm	10°	312'	95m	56'	17m
IR312-A30-24-2	850nm	30°	164'	50m	89'	27m
IR312-A60-24-2	850nm	60°	115'	35m	131'	40m
IR312-A100-24-2	850nm	100° x 50°	80'	24m	188'	57m
IR312-A120-24-2	850nm	120°	66'	20m	226'	69m
IR312-C10-24-2	940nm	10°	148'	45m	26'	8m
IR312-C30-24-2	940nm	30°	79'	24m	43'	13m
IR312-C60-24-2	940nm	60°	56'	17m	66'	20m
IR312-C100-24-2	940nm	100° x 50°	40'	12m	94'	29m
IR312-C120-24-2	940nm	120°	33'	10m	115'	35m

General

Electronics	High efficiency surface mount high power LED's with advanced current limited integral control circuitry
Number of SMT LED's	8
Construction	Robust high quality aluminum extrusion
Front window	Polycarbonate high transmittance protective (vandal-proof) IR filter
Finish	Black anodized
Power Cable	9ft (3m)
Telemetry Following Contact	Via cable
Pressure Equalization Vent	Prevents thermal expansion & pressure cycling
Photocell	Adjustment via Remote
Illumination	Adjustable via Remote
Operating Temperature	-58° to 140°F (-50° to 60°C)
Weight	2.2lbs (1Kg)
Mount	Black powder coated stainless steel wall mount
Dimensions	4.33" x 4.33" x 3.15" (110 x 110 x 80mm)

Electrical

Input Voltage	12-32V DC or 24V AC
Input Current	1A at 24V AC
Consumption	24W

Wavelength

Standard (A)	**850nm** (semi-covert) Faint red glow visible on the illuminator only (no visible light)
Optional (C)	**940nm** (covert) No visible glow from illuminator – ideal for transportation or high security applications

Certifications

Safety	EN60598:2004	Electrical Safety
	EN60825-1	Laser Eye Safety
IP	IP67 in accordance with EN60529:1992	
EMC	EN61000, FCC part 15.107 15.108 Class B	
WEEE	Waste Electrical & Electronic Equipment European directive 202/96/EC	
RoHS	Restriction of Hazardous Substances European directive 202/95/EC	