

# ROPAVISION

## IR312 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 (26W)
- Long life
- 5 year warranty
- IP67 weatherproof rating
- Built-in photocell IR on/off
- Photocell following contact
- Telemetry input for remote switching
- 12-32VDC or 24VAC input



### Who are Illuminar?

Illuminar (which stands for "illuminate" in Spanish) are a specialist manufacturer and supplier of IR and white light illuminators and license plate recognition products. The owners have over 30 years combined industry experience. Our company mission is to supply high quality and reliable lighting and license plate recognition products to the CCTV industry, backed by unsurpassed customer service.

### 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 black/white or 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, which makes it ideal as a covert/none obtrusive form of illumination.
- Because it is invisible to the human eye it does not create the problem of light pollution.
- It has a longer range than visible light due to the higher wavelength (up to approx. 1000' or 305m)

All Illuminar's Infrared illuminators are designed to provide superior IR lighting for CCTV systems. They are available with a range of angles to cover different ranges and scenes.

Supplied with an IP67 rating, they are vandal proof and can be used outdoors. The hardened housing provides protection from the harshest weather conditions and rapid temperature variations (-58°F to 140°F).

## Models

| Model Number  | Wavelength | Angle      | Distance |     | HOV  |     |
|---------------|------------|------------|----------|-----|------|-----|
| IR312-A10-24  | 850nm      | 10°        | 312'     | 95m | 56'  | 17m |
| IR312-A30-24  | 850nm      | 30°        | 164'     | 50m | 89'  | 27m |
| IR312-A60-24  | 850nm      | 60°        | 115'     | 35m | 131' | 40m |
| IR312-A100-24 | 850nm      | 100° x 50° | 80'      | 24m | 188' | 57m |
| IR312-A120-24 | 850nm      | 120°       | 66'      | 20m | 226' | 69m |
| IR312-C10-24  | 940nm      | 10°        | 148'     | 45m | 26'  | 8m  |
| IR312-C30-24  | 940nm      | 30°        | 79'      | 24m | 43'  | 13m |
| IR312-C60-24  | 940nm      | 60°        | 56'      | 17m | 66'  | 20m |
| IR312-C100-24 | 940nm      | 100° x 50° | 40'      | 12m | 94'  | 29m |
| IR312-C120-24 | 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        | 16  |
| Construction               | Robust high quality aluminum extrusion  |
| Front window               | Polycarbonate high transmittance protective (vandal-proof) IR filter                                    |
| Finish                     | Black anodized  |
| Power Cable                | 9ft (3m)  |
| Interface Connector        | Photocell following contact & remote telemetry input  |
| Pressure Equalization Vent | Prevents thermal expansion & pressure cycling   |
| Photocell                  | Adjustment via pot  |
| Illumination               | Adjustable via pot  |
| Operating Temperature      | -58° to 140°F (-50° to 60°C)  |
| Weight                     | 2.3lbs (1.05Kg)   |
| Mount                      | Black powder coated stainless steel wall mount. Adjustable via M6 Allen key (included)                  |

## Dimensions

4.49" x 4.33" x 3.07"  
(114 x 110 x 78mm)

## Electrical

|               |                     |
|---------------|---------------------|
| Input Voltage | 12-32V DC or 24V AC |
| Input Current | 1.2A at 24V AC      |
| Consumption   | 26W                 |

## Wavelength

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

## Certifications

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