

# iluminar

## IRC99 Series

### Product Features

- Short range IR illuminator for day/night CCTV cameras
- Distances up to 99' (30m)
- Angles of illumination 60° and 80°
- 850nm and 940nm Wavelengths
- Low power consumption (15W)
- 1yearwarranty
- IP66weatherproof rating
- Built-in photocell IR on/off
- 12Vdc or 24VAC input



### Who is iluminar?

iluminar (which means "to illuminate" in Spanish) is 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?

Infrared 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. 919' or 280m)

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

Supplied with an IP66 rating, the IRC Series are vandal proof and are designed for outdoor use. The tempered glass panel and die cast aluminum housing provide protection from the harshest weather conditions and rapid temperature variations (-58°F to 140°F).

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## Models

| Model Number | Wavelength | Angle | Distance of Illumination* |     |
|--------------|------------|-------|---------------------------|-----|
| IRC99-A60-24 | 850nm      | 60°   | 99'                       | 30m |
| IRC99-A80-24 | 850nm      | 80°   | 66'                       | 20m |
| IRC99-C60-24 | 940nm      | 60°   | 33'                       | 10m |

\* Viewing distance tested using Sony 1/3" CCD camera with 0.01lux. To achieve the distance needed, please pay attention to your camera and lens specifications prior to purchase. IR illuminators require true day/night camera with mechanical IR cut filter. Distances realized may vary due to different camera and lens specifications.

## General

|                       |  |
|-----------------------|--|
| Electronics           | Infrared LED's   |
| Number of LED's       | 55   |
| Construction          | Aluminum extrusion   |
| Front window          | Tempered glass panel   |
| Finish                | Black powder coated  |
| Power Cable           | 3ft (1m)   |
| Operating Temperature | -22° to 104°F<br>(-30° to 40°C)  |
| Weight                | 1.6lbs (750g)  |
| Mount                 | Black powder coated stainless steel wall mount. Adjustable via M6 Allen key (included) |
| Dimensions            | 6.97" x 3.54" x 5.31"<br>(177 x 90 x 135mm)  |

## 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     | IP66 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     |                                       |

## Electrical

|               |                                       |
|---------------|---------------------------------------|
| Input Voltage | 12Vdc or 24VAC                        |
| Input Current | 0.5Amp at 24VAC or<br>1.0Amp at 12Vdc |
| Consumption   | 9W                                    |