

# iluminar

## IRC182 Series

### Product Features

- Medium range IR illuminator for day/night CCTV cameras
- Distances up to 182' (55m)
- Angles of illumination 45° and 120°
- 850nm or 940nm Wavelengths
- Low power consumption (18W)
- 1yearwarranty
- IP66 weatherproof 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*	
IRC182-A45-24	850nm	45°	182'	55m
IRC182-A120-24	850nm	120°	66'	20m
IRC182-C120-24	940nm	120°	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	147
Construction	Metal cylindrical case
Front window	Tempered glass panel
Finish	Black powder coated
Power Cable	3ft (1m)
Operating Temperature	-22° to 104°F (-30° to 40°C)
Weight	5.1lbs (2.3Kg)
Mount	Black powder coated stainless steel wall mount. Adjustable via M6 Allen key (included)
Dimensions	6.18" x 8.97" (157 x 228mm)

## 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 IP66 in accordance with EN60529:1992

EMC EN61000, FCC part 15.107  
15.108 Class B

WEEE Waste Electrical & Electronic Equipment  
European directive 2002/96/EC

RoHS Restriction of Hazardous Substances European  
directive 2002/95/EC

## Electrical

Input Voltage	12Vdc or 24VAC
Input Current	1.5Amps at 24VAC or 2.0Amps at 12Vdc
Consumption	42W