

# IRN

The IRN lights the entire scene evenly, eliminating hotspots and underexposures, for unbeatable night-time images and secure surveillance of the area. The high efficiency heat sink body ensures maximum LED durability and protection against over-temperatures, whereas the front glass, made of special technopolymer, provides high infrared transmittance. The illuminators are protected against electrostatic discharges. The illuminator is available in versions 24Vac/12-24Vdc or 100-240Vac with integrated power supply. IRN is supplied with a wall-mount bracket that rotates horizontally and vertically. The IRN infrared illuminator guarantee is 5 years, while for IRN with the white light is 2 years.



## Technical data

### General

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Supplied complete with support

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Adjustable built-in twilight sensor for automatic activation and deactivation

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LED SMD

### Mechanical

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Die cast aluminum body

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Dimensions: 187×251×242mm (7.4×9.9×9.5in)

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Unit weight:

- 1.7kg (3.7lb) (from 12Vdc up to 24Vdc, 24Vac)
- 2.2kg (4.8lb) (from 100Vac up to 240Vac)

## Electrical

Supply voltage/Current consumption:

- from 12Vdc up to 24Vdc, 2.5A max
- 24Vac, 2.5A max, 50/60Hz
- from 100Vac up to 240Vac, 1.5A max, 50/60Hz

Power supply voltages permitted tolerance:

- from 100Vac up to 240Vac:  $\pm 10\%$
- 24Vac or 24Vdc:  $\pm 10\%$
- 12Vdc:  $\pm 5\%$

Input for activation by means of external dry contact

Dry contact output (Follow)

Multipolar cable L: 2m (6.56ft)

- Control:  $4 \times 0.34\text{mm}^2$  (22AWG)
- Power supply from 12Vdc up to 24Vdc, 24Vac:  $2 \times 0.75\text{mm}^2$  (18AWG)
- Power supply from 100Vac up to 240Vac:  $3 \times 0.75\text{mm}^2$  (18AWG)

## Environment

For indoors and outdoors installation

Operating temperature: from  $-40^\circ\text{C}$  ( $-40^\circ\text{F}$ ) up to  $+60^\circ\text{C}$  ( $140^\circ\text{F}$ )

Relative humidity: from 5% up to 95%

## Certifications

Electrical safety (CE): EN60950-1, IEC60950-1, EN62368-1, IEC62368-1

Electromagnetic compatibility (CE): EN50130-4, EN55032 (Class A), EN61000-6-4

Electromagnetic compatibility (North America): FCC part 15 (Class A), ICES-003 (Class A)

Outdoor installation (CE): EN60950-22, IEC60950-22

Photobiological safety (CE): EN62471, IEC62471

IP protection degree (EN60529): IP66, IP67

IK protection degree : IK10

UL certification (UL60950-1, CAN/CSA C22.2 No. 60950-1-07): cULus Listed

Level of protection Type (UL50E): 4X

Restriction of Hazardous Substances (RoHS), Directive 2011/65/EU

Waste Electrical and Electronic Equipment (WEEE), Directive 2012/19/EU

## Brackets and adaptors

|       |                    |
|-------|--------------------|
| WSFPA | Pole mount adaptor |
|-------|--------------------|

## Package

| Model Number           |               | Weight                    | Dimensions (WxHxL) |
|------------------------|---------------|---------------------------|--------------------|
| 90-240Vac models       | 3kg (6.6lb)   | 30×24×16cm (12×9.5×6.3in) |                    |
| 12-24Vdc, 24Vac models | 3.5kg (7.7lb) | 30×24×16cm (12×9.5×6.3in) |                    |

## IRN - Beam pattern and achievable distances for one illuminator

| Horizontal and vertical beam patterns | Maximum distance |                           |
|---------------------------------------|------------------|---------------------------|
|                                       | 850nm            | White light               |
| 10°                                   | -                | -                         |
| 30°                                   | 130m (427ft)     | 120m (393ft) <sup>1</sup> |
| 60°                                   | 80m (262ft)      | 90m (295ft) <sup>1</sup>  |

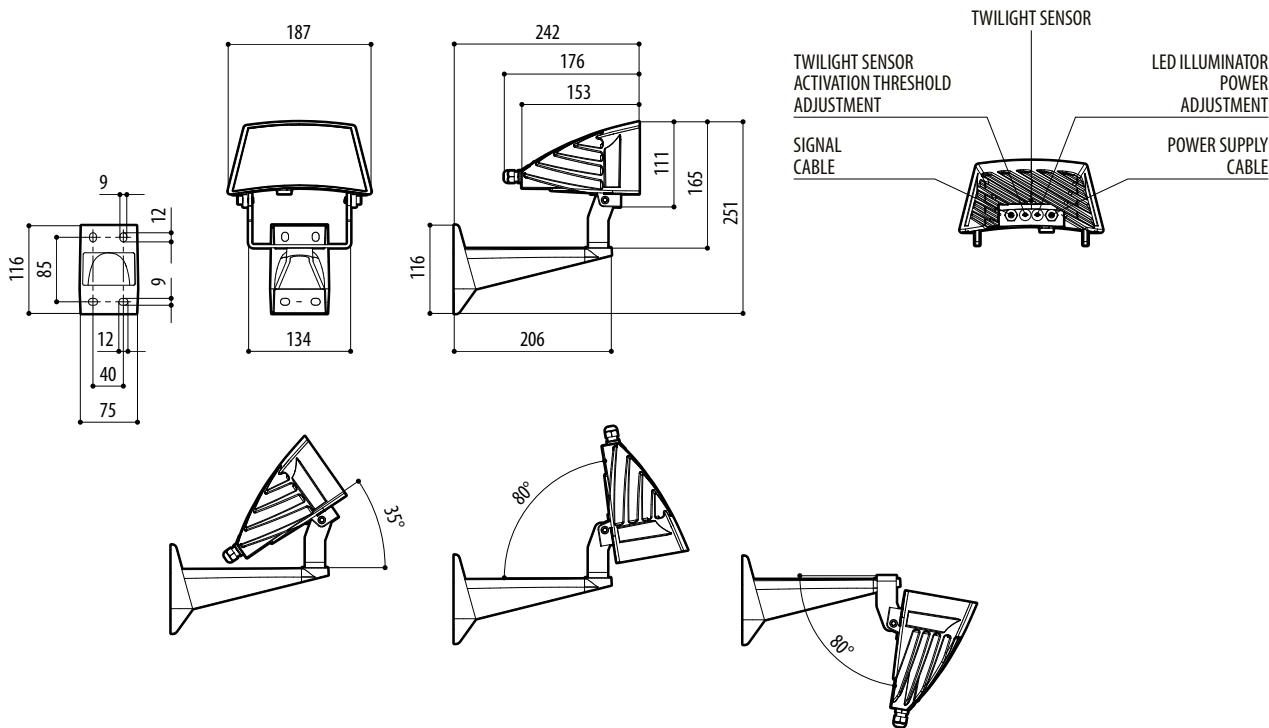
<sup>1</sup> Achievable distances with camera in Day mode (colour image)  
The distances and the performance depend on the camera/lens used and on the environmental conditions.

## IRN - Configuration options

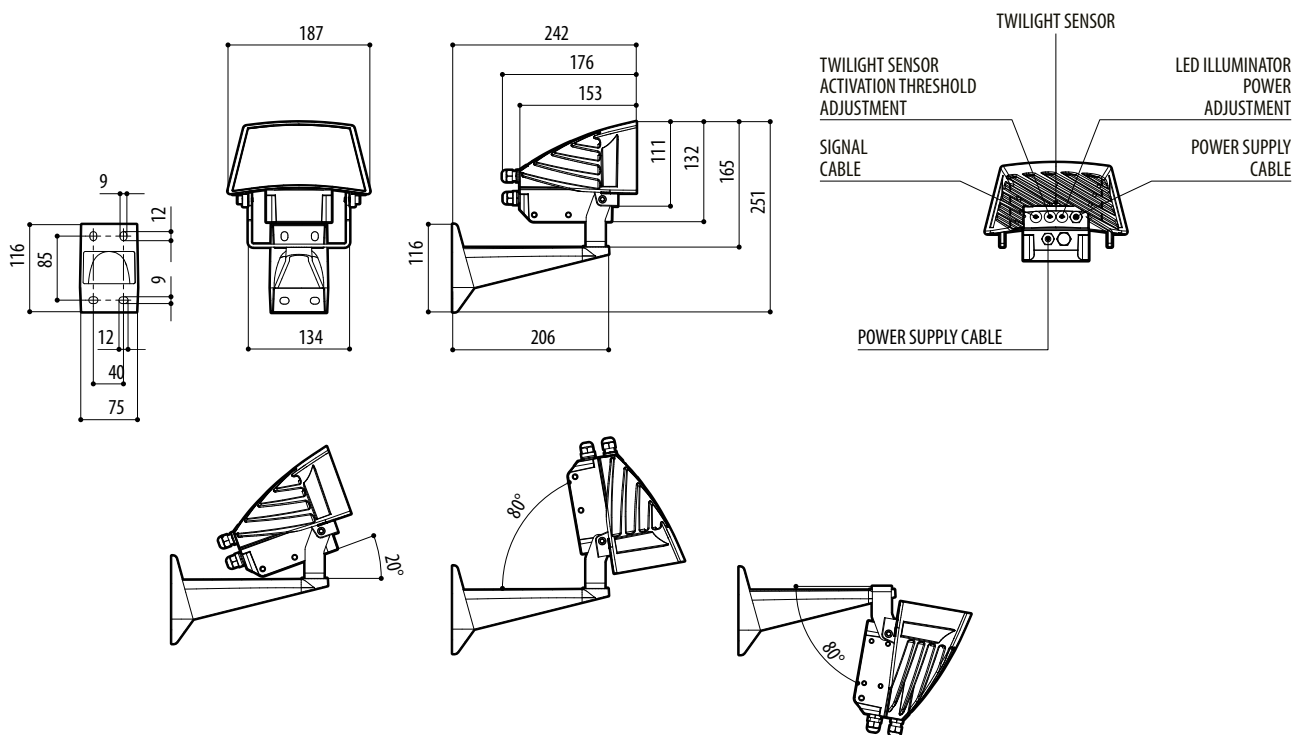
|               |                 |             |             |
|---------------|-----------------|-------------|-------------|
| Power supply  | 12-24Vdc, 24Vac |             | 90-240Vac   |
| Wavelength    | 850nm           | White light | 850nm       |
| Beam patterns |                 |             |             |
| 30°           | IRN30B8AS00     | -           | IRN30A8AS00 |
| 60°           | -               | IRN60BWAS00 | IRN60A8AS00 |

# Technical drawings

The indicated measurements are expressed in millimetres.



IRN (FROM 12VDC A 24VDC, 24VAC).



IRN (FROM 100VAC A 240VAC).

## Support

Learn more and find additional documentation at [pelco.com](http://pelco.com) or email [support@pelco.com](mailto:support@pelco.com) for specific product support.

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MAR 2026 | | REV 2

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