RDPSEC Installation Guide

This installation guide provides instructions for installing the NIR series illuminators

Installation Steps

1. Mount Illuminator
2. Connect Illuminator to low voltage power supply
   – Input 12-24V DC/ 24V AC

Optional Set-up (if required)

3. Adjust Power to alter light intensity
4. Adjust Photocell sensitivity
5. Photocell following contact and Telemetry input

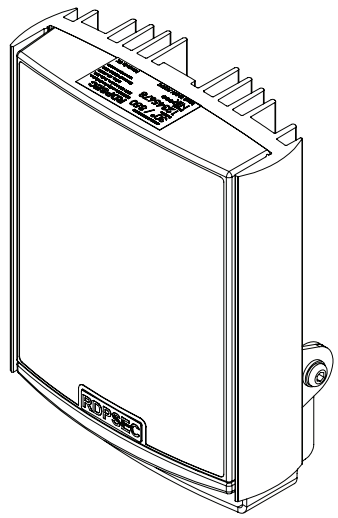
Set Up Steps

1. Position illuminator adjacent to camera and point towards scene
2. Adjust vertical and horizontal position of lamp to ensure full field of view illuminated
3. Tighten all fixings

Package Contents

1. Illuminator including mounting bracket

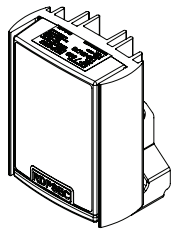
Overview



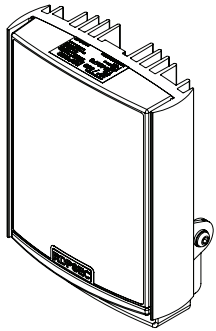
PLEASE NOTE:

Ensure operating voltage is correct for unit being installed (12-24V DC/ 24V AC)

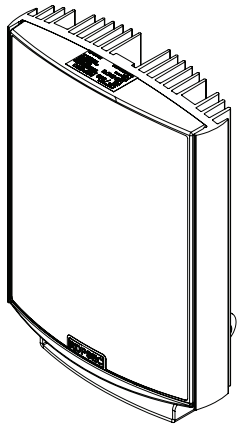
Version: 1



NIR1 Series



NIR2 Series

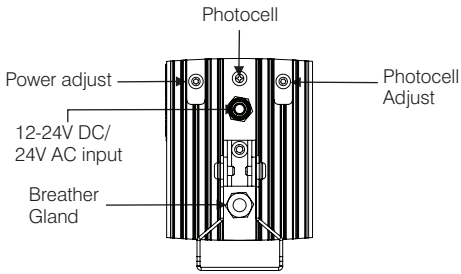


NIR3 Series

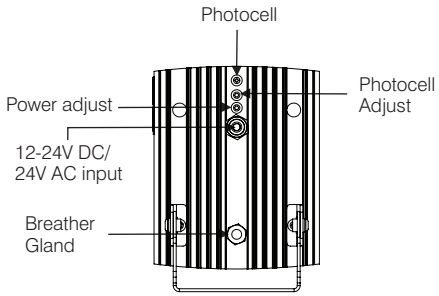
Back of Unit

Control Features

NIR1Series



NIR2 and NIR3 Series



Cables

1x six core cable

	DC	AC
Black Wire	-	~
Red Wire	+	~

2 Core Power = Red & Black wires

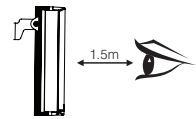
2 Photocell following contact = Orange and Blue wires

Volt free output. Non polarity sensitive

2 Telemetry input = White & Green wires

Note: Telemetry wires must be tied together for normal photocell controlled on/off operation

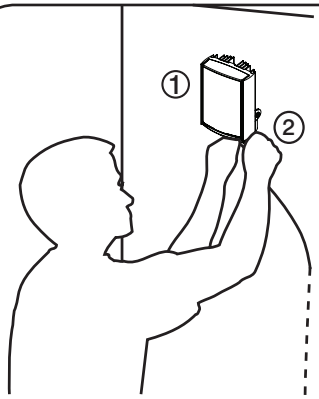
Install in a well ventilated area



Do not continually stare at lamp

Specifications subject to change without notice. Installation to be carried out by suitable trained and qualified personnel.

Installation



1. Mount illuminator

2. Connect Illuminator to low voltage power supply: Installers can extend or reduce lead length using appropriate cable and weather proof box.

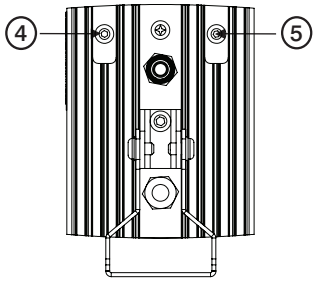
   Note: Ensure the White & Green wires for Telemetry are tied together if the illuminator is being used for normal photocell controlled on/off operation

3. Input 12-24V DC/ 24V AC

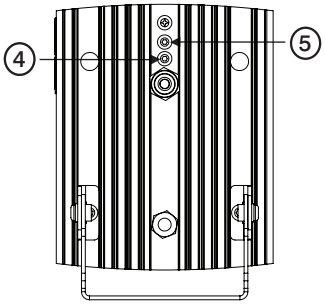
Note:	Red = **positive** Black = **negative**

Optional Set-up (if required)

NIR1



NIR2 & NIR3



4. Adjust Power to alter light intensity. Remove the cover and turn the 'power adjust' to alter the intensity of the light level. Use a flatblade screwdriver max 0.08 inches (2mm) wide for pot adjust.

Clockwise=**increase** Counterclockwise=**decrease**

5. Adjust Photocell sensitivity. Remove the cover and turn the 'photocell adjust' to alter photocell sensitivity to ambient lighting condition. Use a flatblade screwdriver max 0.08 inches (2mm) wide for pot adjust.

Clockwise=**more** sensitive Counterclockwise=**less** sensitive

6. Photocell following contact, volt free relay contact - normally open (day) to normally closed (night).

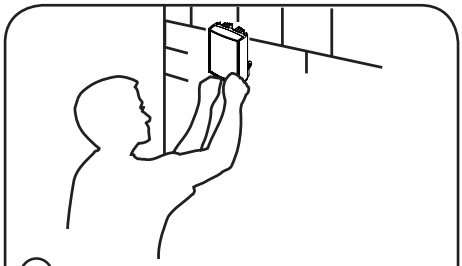
Orange and **Blue** wires = Photocell following contact

Telemetry connection for remote operation.

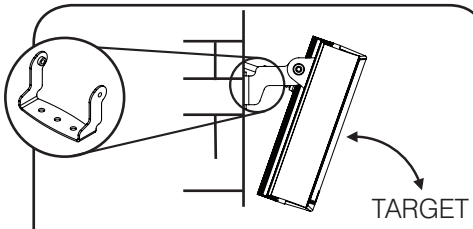
White and **Green** wires = Telemetry input

Note: Telemetry wires must be tied together for normal photocell controlled on/off operation

Set Up

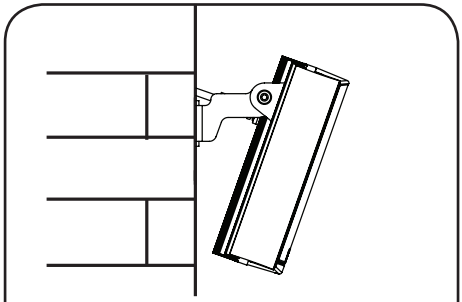


① Position illuminator adjacent to camera and point towards scene (Optional night set-up for optimum image performance)



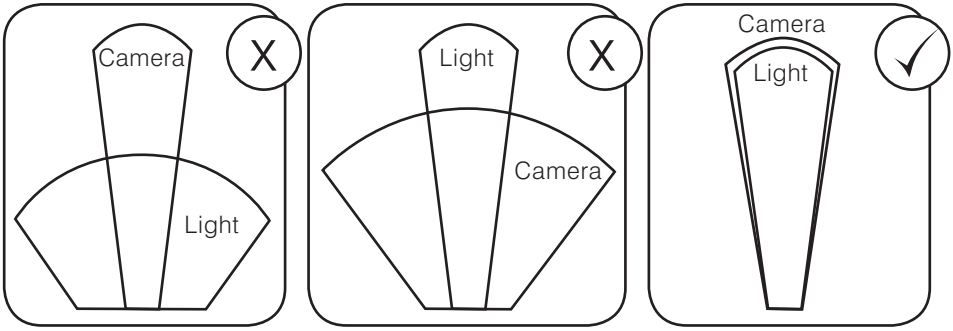
② Adjust vertical and horizontal position of lamp to ensure full field of view illuminated

Note: Bracket can be positioned at either end of the illuminator (NIR 2 and 3 only)



③ Tighten all fixings

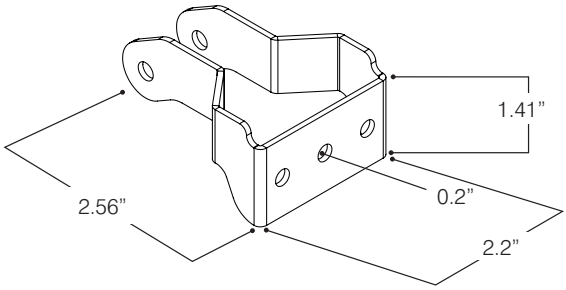
Match illumination to camera field of view



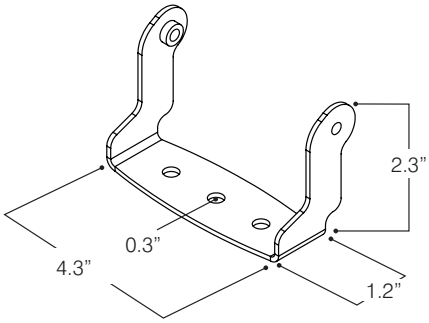
Reduces performance | May cause hot spots | Best performance

Technical Drawings (Not to scale)

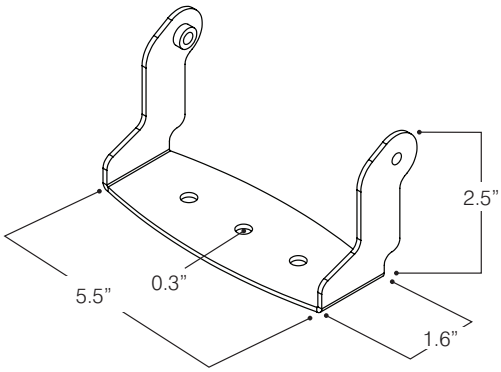
Standard Bracketry



NIR1



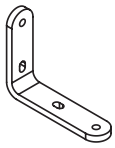
NIR2



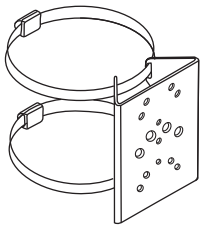
NIR3

Optional Bracketry

Wall Mount



Pole Mount



NIR Specifications

Max. Distance Model dependent	NIR1	NIR2	NIR3
Consumption ~	14W max	40W max	80W max
Input	12-24V AC/DC	12-24V AC/DC	12-24V AC/DC
Current	1.17A @ 12V or 0.6A @ 24V	3.3A @ 12V or 1.7A @ 24V	6.7A @ 12V or 3.3A @ 24V
Weight	1.6 lbs (0.73 kg)	3.5 lbs (1.59 kg)	7.1 lbs (3.2 kg)
Environment	IP67	IP67	IP67
Dimensions L x W x D	3.7 x 5.5 x 3.3” (95 x 140 x 84mm)	5.6 x 7.7 x 3” (143 x 196 x 75mm)	8 x 11.2 x 3.3” (203 x 285 x 83mm)

Integrated Control Features

- Built-in photocell for automatic on/off operation
- Power adjust
- Photocell level adjust
- Photocell following contact
- Telemetry input for remote on/off operation

Troubleshooting

Ensure all tests are undertaken by a qualified, trained engineer.
Ensure safe working practices are followed at all times.

Step 1: Basics

- Check polarity of Lamp connection
  red=+ve, black=-ve
- Ensure power is 12-24V DC/ 24V AC
- Check photocell is working-cover photocell, light should turn on.
- Ensure the White & Green wires for Telemetry are tied together if the illuminator is being used for normal photocell controlled on/off operation. The unit will not turn on if these wires are separated.
- Ensure power supply is suitably rated to product - check page 6 for specifications
- If longer cables used, ensure sufficient voltage is provided to allow for drops across the cable

If OK…

Step 2: Lamp Test

- Check current draw of lamp corresponds to specification on page 6

To check lamp current remove +ve (red) lead from external power source and connect multimeter (set to 10A) in line with the lamp. [One lead of multimeter in common (COM), other lead into 10A socket of multimeter; set multimeter to read Amps]. For correct current settings, see page 6.

Step 3: Set-up Camera, lens and illumination

- Check alignment of lamp
- Check camera lens – fully open at night & set correctly
- Check model number to NIR performance specification to ensure required distance is achievable

Step 4: Call RDP for further assistance

Note down:

- Model and serial number of illuminator
- Camera make and model

If the NIR lamp is still not delivering the required performance, please contact us:
Tel: (949) 336-4522

RDPSEC

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NI/12/10.1