

NIR SERIES FAQ



What about the LEDs?

The LEDs combine cutting edge SMT LED technology, miniature optics and a thermal management system into a single high performance LED. The result is world leading power, reliability and flexibility.

What is the power requirement of the NIR Series?

The unit cannot plug directly into the wall, a transformer/power supply is needed. The units will operate from 12-24VDC or 24VAC. Most users will select 24VAC. For 24VAC use the transformers sizes listed below. As a general rule use a transformer/power supply rated higher than the units power draw to avoid stressing the power supply.

Series	Power Input	24VAC Transformer Type	Recommended Tranformer Models
NIR1	14W / 1.17A @12VDC / 0.6A @24VAC	25VA 24VAC Transformer	Standard 40VA transformer
NIR2	40W / 3.3A @12VDC / 1.7A @24VAC	70VA 24VAC Transformer	Altronix T2428100C (or similar model)
NIR3	80W / 6.7A @12VDC / 3.3A @24VAC	120VA 24VAC Transformer	Altronix T2428175C (or similar model)

Does the color code of the wires matter?

Red is Positive (+), Black in Negative (-) when using 12-24VDC. 24VAC has no polarity.

What are the 'fins' on the unit for?

These are part of the heat sink for the illuminator. LED's generate heat and it needs to be dissipated to extend the life of the unit..

What adjustments are available?

There are adjustments for Photocell and Intensity. The Photocell can be adjusted if the user finds the illuminator is turning on/off at the wrong lighting level. The Intensity adjustment can be adjusted if the scene is being washed out by too much light on the scene.

What is the Telemetry input?

This allows for the unit to be turned off and on remotely using a relay contact. When the wires are connected (shorted) the unit will turn on. Separating the wires (open) will turn the unit off. The photocell will still operate normally and the unit will not turn on during the day even when the Telemetry wires are shorted.

What is the Photocell Following contact?

The illuminator can connect to cameras that have a IR lamp input. When the illuminator is On it will trigger the camera to enter the "Night" mode. This can be helpful for situations where the camera is not switching to Night mode properly. It is a volt free relay contact - Normally Open (N.O. day) to Normally Closed (N.C. night).

What is the plug on the rear for?

It is called a Breather Gland for greater reliability and longer product life. It allows for pressure equalization to remove thermal expansion and pressure cycling inside the unit while maintaining the IP67 rating.

Is the unit weatherproof?

Yes, the unit is IP67 rated for outdoor use. The temperature range is -58° F to 122° F (-50° C to +50° C)

Is the front lens polycarbonate?

Yes. It provides resistance to vandalism.

How is the unit mounted?

The illuminator includes a U style bracket. For NIR2 and NIR3 models the bracket can be moved to allow for top or bottom mounting. The bracket does not allow the user to angle the lamp left to right so additional brackets are available as shown below.



L-Bracket

Versatile bracket for wall mounting the unit and aim it in any direction



Pole Mount Bracket

Includes stainless steel straps.