

VARIO2POE

Quick Installation Guide

Safety Information:



White Light and IR Variants (850nm & 940nm)

Caution – Risk Group 2. Avoid Exposure / use protection.

See Safety Information in FULL Instruction Guide for more details.

Box Contents:

VARIO2 POE Illuminator , 60° beam angle ILS, User Guide

(ILS: Interchangeable Lens System)

Optional Accessories: Remote Controller for additional programming;

80° beam and 120° beam angle ILS; Bracketry

Factory Default Set-Up:

35° Beam Angle ; Max 100% Power

Photocell sensitivity – MID; Telemetry Input Closed (Premium variants only)

Status LEDs – ON ; No PIN Set

Programming function will auto-disable after 7 Days (if no manual buttons used)

VARIO2 Specifications Table:

See Page 26 and 27 in Full Instruction Guide

PoE Detection:

There is a switch on the **VAR2-PoE-w8-1**, **i8-1** and **i8-1-C** illuminators which can be used to change the PoE detection resistance of the illuminator (24.9K Ω is the factory default setting).

The majority of PSE equipment requires a detection resistance of 24.9K Ω to establish a PoE link. Some models of PSE equipment require 12.5K Ω .

For 24.9 K Ω , slide switch to the LEFT (factory default – as shown). For 12.5 K Ω , slide switch to the RIGHT.

Wiring:

1. Mount Illuminator
2. Connect Illuminator to suitably rated PoE source (check specification)
Or 24 V dc for Premium model only.
3. Complete configuration, wiring and final set-up using manual push buttons on the illuminator or VARIO Remote Controller (VRC) - VRC is an optional accessory.

For Cat5 wiring – use T568-B wiring standard.

Premium Versions only:

Red = +ve, black = -ve

White & Yellow wires = Photocell following contact, Volt free output, Non polarity sensitive

Orange and Purple Wires = Telemetry input Volt free / dry contact or TTL input

Lens Selection:

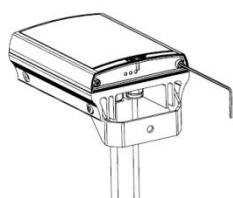
Select different beam angle – if required

VARIO is factory set and delivered with a 35° beam width angle.

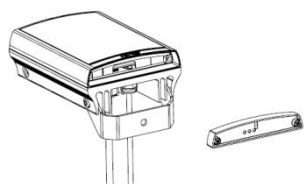
To alter to 10°, simply remove interchangeable lens (ILS).

To alter to 60°, replace with other ILS lens supplied.

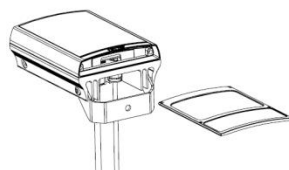
Other angle ILS lenses are available to order: 80° and 120°.



*Step 1
Unscrew
baseplate*



*Step 2
Remove
baseplate*



*Step 3
Remove /
Replace diffuser
lens*



*Step 4
Replace
baseplate
& tighten*

Remove base plate from VARIO2 unit using 2.5mm allen/hex key. Insert required ILS lens and re-attach base plate securely ensuring gasket is correctly located.

Manual Button Operation

Buttons are accessed by removing the base plate at the bottom of the unit (2 screws)

Action Required	Step1 : LHS Button	LHS LED	Step 2 : RHS Button	RHS LED	Comment
Power Adjust	1 x Push	Solid Red	Each Push cycles through power levels	Green flashes indicate level. High power (5 flashes) to Low power (1 flash)	
Photocell Adjust	2 x Push	Solid Green	Each Push cycles through photocell levels	Green flashes indicate 3 setting levels. Low to Med to High sensitivity. Then Solid Red for Photocell disabled	
Status Indicator LEDS On / Off	3 x Push	Solid Amber	Each Push cycles between On and Off	On – Green Off - Red	
Factory Re-set (Does not Re-set PIN)	1 x Long Push (4 Seconds)	Flashing Red –	Push and Hold until both LEDs flash Amber	Solid Red – After 4s both LEDs Flashing Amber	Reverts to Programming Mode unless a PIN is present. If a PIN is present reverts to original mode before re-set
Disable Remote and Enter Operating Mode or Enable Remote and Enter Programming Mode	1 x Long Push (4s), then 1 x short Push	Flashing Green	Push to cycle Disable / Enable	Disable – Red Enable - Green	Reverts to the Mode requested unless a PIN is present. If a PIN is present and you are in Operating Mode you cannot change to Programming Mode

Action Required	Step1 : LHS Button	LHS LED	Step 2 : RHS Button	RHS LED	Comment
Disable / Enable Manual Buttons	1 x Long Push (4s), then 2 x short Push	Flashing Amber	Push to cycle Disable / Enable	Disable – Red Enable - Green	Buttons will be Disabled 30 minutes after this selection is made – This is to allow the user to re-enable manual buttons if required
Full Re-set (including PIN re-set)	Keep both buttons depressed during power up – LEDs will both flash Amber	After power up – Flashing Amber straight away	Keep both buttons depressed during power up – LEDs will both flash Amber	After power up – Flashing Amber straight away	Illuminator will revert to Programming Mode, Full factory default including No PIN

The illuminator has two modes; (1) Programming Mode when the remote control can be used and (2) Operating Mode when most of the remote control functions are disabled (see Remote Control Instructions for more details)

Manual Buttons are always available in programming mode or if they have been disabled, they can be enabled in programming mode.

Manual Buttons are available in operating mode, provided they have not already been disabled.

The number of button pushes indicated above are based on the user starting with the illuminator in either programming or operating mode.

If the user has already started to program the units, then the number of button pushes on the left hand will take them to the next function as per the sequence in the table.

If no buttons are pressed within 2 minutes then the illuminator will automatically default back into the previous mode it was in – programming or operating mode.

VARIO Remote Controller (VRC)

Optional Accessory

Full instructions provided with VRC when supplied

Photocell Adjust

To select 3 different photocell sensitivity levels to accommodate different operational requirements.

Timer Setting

The timer function allows the illuminator to be triggered via the telemetry input and remain on for a pre-defined period of time.

Power Select

Quick and easy selection of 5 accurately defined power settings, 1=20%, 2=40%, 3=60%, 4=80% 5=100%. Provides exact amount of light required for the scene requirements.

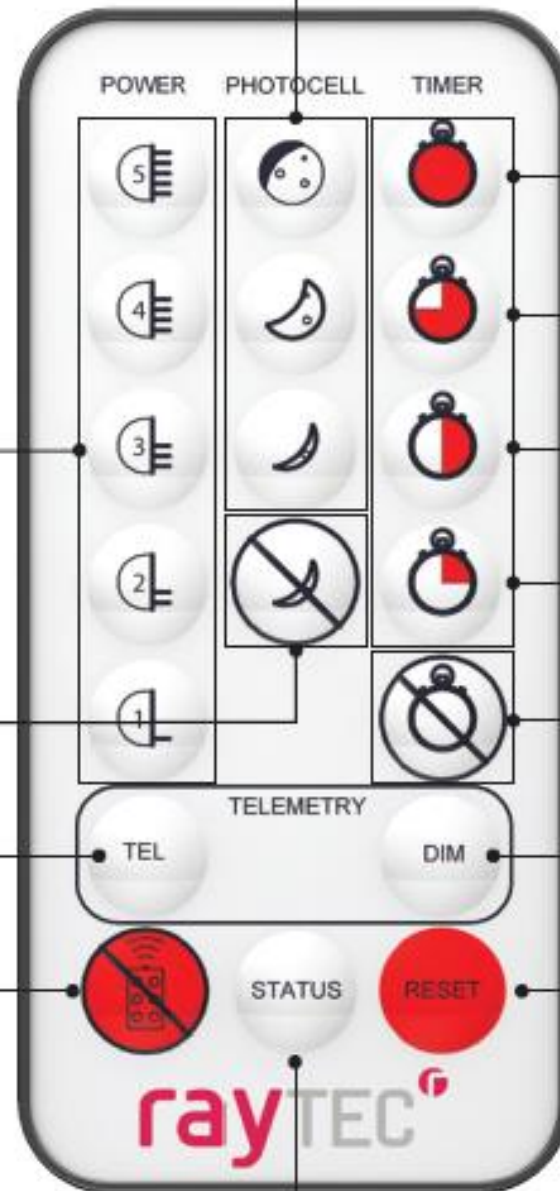
Photocell Disable

Lamp operates from telemetry input only

Selects telemetry Input

Disable Remote Control Set-Up

Must be depressed for 4 seconds to lock-in settings and prevent further alterations and disable manual buttons



30 mins

10 mins

3 mins

1 min

Timer disable

Selects dimming function on telemetry wires.

Restores Factory Default Settings. Must be depressed for 4 seconds.

LED Status Indicator

Turns status LED's On or Off and PIN Entry

For extra security VARIO2 allows a PIN (Personal Identification Number) to be set. There are five buttons / characters on the remote that can be used for this purpose : Power 5, Power 1, Min Photocell (Smallest moon), Max Timer (Full Red Circle) & Timer Disable (Timer Circle image with a line through) . Note - invalid characters will not be recognised.

Remote Control Operation for PIN set and Manual Button Disable / Enable

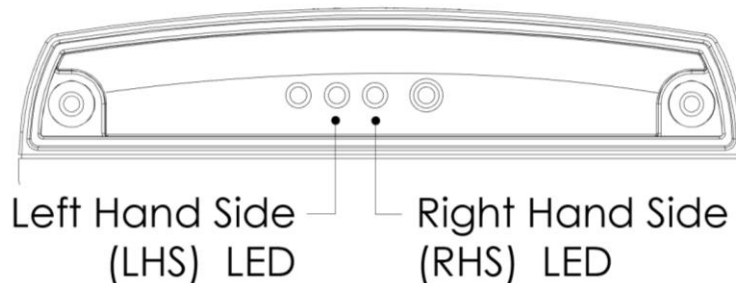
Action Required	Available Mode	Step1	Step 2	LHS LED	RHS LED	Comment
Disable Remote	Prog Mode	Press <Disable Remote Control> for 4 seconds	N/A	Solid Green	Flashing Amber to Solid Amber to Off	Illuminator will go to Operating Mode. RHS LED - Flashing Amber to Solid Amber when button pressed. RHS LED turns Off when in Operating Mode.
Disable Manual Buttons	Operating Mode	Press <Disable Remote Control> for 4 seconds	N/A	Solid Green – After 4 seconds Flashing Red (Returns to Solid Green after button release)	Off to Solid Amber, then after 4 seconds Flashing Red (Returns to Solid Green after button release)	Must be done within 5 minutes of Disabling remote / entering Operating Mode. Change will take effect after 30 minutes
Create or Change PIN	Prog Mode	Press <Status Button> for 4 seconds	Enter valid PIN character x 4	Green to Intermittent Flashing Red / Green	Solid Amber to Flashing Red Flash qty counts down the No. of valid characters required	After PIN created Illuminator goes to Programming Mode (Standard LED indication)
Enter existing PIN	Operating Mode	Press <Status Button> for 4 seconds	Enter valid PIN character x 4	Green – Intermittent Flashing Red / Green	Solid Amber to Flashing Green Flash qty counts down the No. of characters required	After PIN created Illuminator goes to Programming Mode (Standard LED indication) If invalid PIN entered both LEDs flash red and unit will stay in Operating Mode
Delete PIN	Prog Mode	Press <Status Button> for 4 seconds	Press <Re-Set> button 4 times	Green – Intermittent Flashing Red / Green	Solid Amber to Flashing Red Flash qty counts down the No. of characters required	After PIN deleted Illuminator goes to Programming Mode (Standard LED indication)

For full PIN function detail (inc valid PIN characters) – see FULL instruction guide

LED Status Indicators:

Programming Mode and Operating Mode

On first power up (Factory Default) the illuminator automatically enters Programming Mode. It will then time out automatically after 7 Days to Operating Mode unless the user actively changes the lamp settings or uses the manual buttons. The LED Indicators feedback the mode you are in. (They are also used for PIN or Manual Button Control Modes – please see tables / FULL Instruction Manual)



During Programming Mode and Operating Mode the two LED's indicate the following status :

- LHS SOLID GREEN: Power Applied
- LHS FLASHING GREEN: Remote control IR received problem
- RHS FLASHING AMBER: Indicates unit is in programming mode (Programming Mode Only)
- RHS SOLID AMBER: Indicates that a valid command is being received (Programming Mode Only)
- LHS FLASHING RED: Voltage supply problem detected
- LHS SOLID RED: Illuminator LED fault detected

All functions of the remote control and buttons are available in Programming Mode.

The only function of the Remote Control available during Operating Mode is LED Status Indicators Enable/Disable, entering a PIN or disabling manual buttons (if done at the same time as disabling the remote – see FULL Instruction Manual)

RESET:

Settings Re-set : Pressing and holding the RESET BUTTON on the remote control or using the manual buttons to complete a RESET will restore the factory settings to the illuminator. Note : It will not remove a PIN if one is present.

Full Re-set : Re-cycling the power whilst pressing both manual buttons will restore factory settings and remove a PIN if one is present.

Both indicator LEDs flash amber for both above re-sets when complete.

VARIO2 Quick Troubleshoot:

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

- Check rating of PoE power source is suitably rated or 24V dc (Premium only)
- Check PoE resistance detection switch is correctly rated
- Check LED status indicators for relevant information
- Check camera and illuminator alignment and angles

See FULL Instruction Guide for more details of troubleshooting

For in-depth Troubleshoot, see Full Instructions, or contact Raytec.

The Raytec logo consists of the word "ray" in a lowercase, sans-serif font, followed by "TEC" in a larger, uppercase, sans-serif font. A small registered trademark symbol (®) is positioned to the upper right of the "C".

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