# VAR2-w2-1
## Short Range White-Light Illuminator











- Distances up to 60m (197ft)
- PLATINUM Elite SMT LED Technology
- Hot-spot Reduction Technology (HRT)
- VARIO Interchangeable Lens System
- VARIO Remote Control (optional)
- Angles from 10-120 degrees – from 1 product
- Excellent Colour Rendition
- Advanced Security Settings

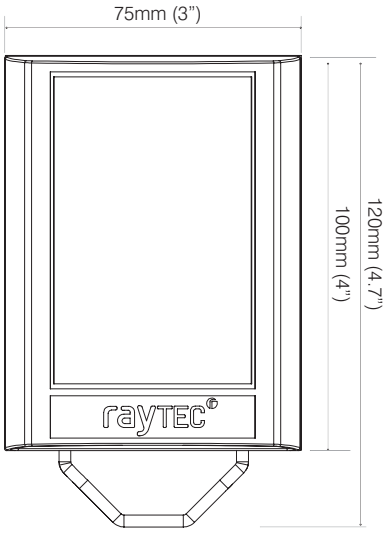
Delivering world leading power and illumination distances VARIO2 next generation illuminators can improve the performance of any video surveillance system at night.

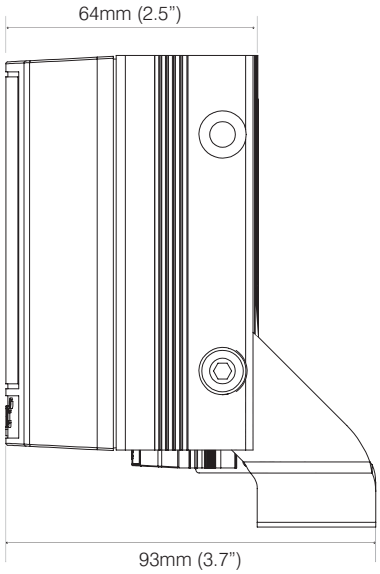
VARIO2 illuminators use PLATINUM Elite SMT LED technology to deliver more power and greater distances from a smaller platform than current generation illuminators. Providing a broader range of solutions, the VARIO2 series also offers a suite of advanced security features for easier programming and safer operation of smart lighting systems.

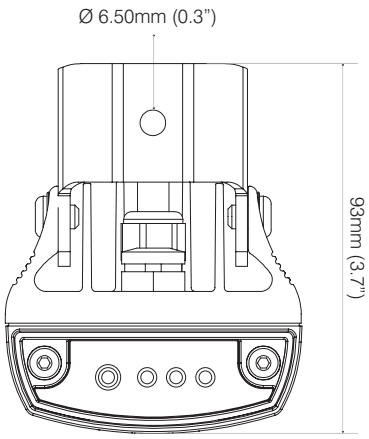
VARIO2 features an interchangeable lens system with Hot-spot Reduction Technology to deliver highly even illumination, where it is most needed, for outstanding night-time images. With the optional hand-held remote control, VARIO2 also makes installation and commissioning quicker, easier and safer.

The VARIO2 w2 White-Light series delivers maximum distances up to 60m (197ft).

# Product Dimensions




| Features | Benefits |
|---|---|
| VARIO Interchangeable lens system | Angle of illumination can be easily, quickly and precisely adjusted by changing the VARIO holographic lens insert, to match the specific camera field of view. |
| Hot-spot Reduction Technology (HRT) | HRT - Hot-Spot Reduction Technology delivers a highly diffused, elliptical beam shape to deliver more light where it is needed, generating both longer distances and minimizing light wastage. The HRT system also prevents overexposure of foreground objects. |
| VARIO Remote Control (optional) | Allows set up quickly and safely from ground level and provides access to advanced set up features. Reduces both cost and time of installation and commissioning. |
| LED Status Indicator | Quick operational feedback on status and performance of the illuminator. Allows simple and quick commissioning of the installation and easy maintenance reviews |
| Platinum Elite SMT LED Technology | VARIO2 illuminators use cutting edge PLATINUM Elite SMT LED technology together with an enhanced Cool Running™ thermal management system to deliver World leading power, reliability and flexibility. |
| Advanced Security Settings | Programming inputs on both the VARIO remote control and on the VARIO2 illuminator can be disabled if required. Additionally, the VARIO remote control can be given a PIN code to lock in settings and limit access. |
| Green Technology | In-built green features such as power adjust, telemetry control and timer function enhance the potential for energy savings. |

## 5 YEAR WARRANTY

All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years

5 YEAR WARRANTY

# Technical Specifications

### Illuminator

| | |
|---|---|
| Total Lumens | 932lm per luminaire |
| Max Distance | 60m (197ft) |
| Angle | Standard pack includes 10° circular + 35° x 10° (fitted as standard) and 60° x 25°elliptical lenses. Additional optional lenses: 80° x 30°, 120° x 50° |
| Input | 12/24V AC/DC |
| Consumption | 11W max |
| Beam Shape | Elliptical with HRT (Hot-spot Reduction Technology) |
| Beam Angle System | VARIO Interchangeable Lens System |
| LED type | Platinum Elite SMT LEDs |
| Number of LEDs | 6 |
| Wavelength | White-Light |
| Colour Temp | 6000K ~ |
| Colour Reproduction Index | >70 |
| IP rating | IP66 |
| Temperature Range | -50° to +50°C (-58 to 122°F) |
| Colour | Silver |
| Weight | 600g (1.3lbs) |
| Dimensions | 75 x 100 x 64mm (3" x 4" x 2.5" approx.) |
| Cable Length | 2.5m |
| Bracketry | U bracket included VUB Bracketry also available (Optional) |
| Country of Manufacture | United Kingdom |

### Integrated Command and Control Technology

| | |
|---|---|
| Integrated Standard Features | • Power adjust from 20-100%<br>• In-built photocell for automatic on/off operation<br>• Photocell following output<br>• Photocell sensitivity adjust<br>• LED status indicator provides status on performance of the unit<br>• LED status indicator on/off<br>• Disable programming mode |
| Advanced Features (accessed via VARIO remote control) | • Timer function (up to 30 mins)<br>• Telemetry control<br>• Remote Dimming<br>• Restore factory default settings<br>• Optional PIN to lock in settings and limit access<br>• Remote Control can be disabled for improved security |

### POWERS – The Open Lighting Standard

Specifications and distances based on the POWERS lighting standard

For full POWERS data and A&E specifications please contact sales@raytecctv.com

# Product Codes

| Part Codes | Description | Angles | Distances |
|---|---|---|---|
| VAR2-w2-1 | VARIO2 w2 White-Light, with 3 angle options included, 12-24V | 10 x 10° | 60m (197ft) |
| | | 35 x 10°(fitted as standard) | 40m (131ft) |
| | | 60 x 25° | 25m (82ft) |
| | | 80 x 30° (optional) | 20m (66ft) |
| | | 120 x 50° (optional) | 12m (39ft) |

### Optional Parts

| | |
|---|---|
| VAR-rc | Remote Control for any VARIO Illuminator (only 1 remote needed) |
| VAR-w2-LENS-8030 | Individual w2 VARIO lens – 80°H x 30°V |
| VAR-w2-LENS-12050 | Individual w2 VARIO lens – 120°H x 50°V |

# VARIO PSU

## VARIO Power Supply Units

The VARIO series of Power Supply Units (PSU) is purpose designed to correctly power all VARIO illuminators including VARIO IP, and provides a platform for the easiest, quickest and safest wiring and installation.

As a full product family, there is a PSU to power any VARIO illuminator. The VARIO PSU requires a 100-230V AC input and provides 24V output. 20W, 50W, 100W and 150W PSU options are available.

With multiple outputs, installers have the ability to power multiple VARIO illuminators from a single PSU (medium, large, and x-large size PSU only). The VARIO PSU also provides CAT5 connectivity for VARIO IP network illuminators (medium, large, and x-large size PSU only).

Each PSU features a 'Fast-Connect' wiring terminal for quick and easy wiring of all VARIO input and output connections, including telemetry input and photocell following output. White-Light LED status indicators are also provided on all fused outputs to indicate the correct voltage and to provide support illumination during wiring.

The VARIO PSU has a high quality IP66 aluminium enclosure making it suitable for all environmental conditions. It also features convenient automotive blade output fuses allowing for fast and easy sourcing and replacement if required. The Slowblow input fuse can also be easily replaced without disconnecting the mains input, for easier and safer installation and maintenance. The VARIO PSU series is suitable for all VARIO low voltage lighting installations.

## Features

### Powerful

- Powers all VARIO illuminators including VARIO IP
- Powers multiple VARIO illuminators from one PSU

### Flexible

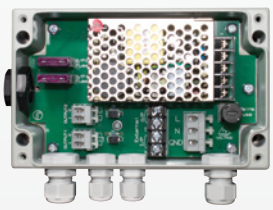
- CAT5 connection for VARIO IP (medium, large, and x-large only)
- 'Fast-Connect' easy wiring for all VARIO input and output connections
- Internal illumination for night time installation

### Reliable

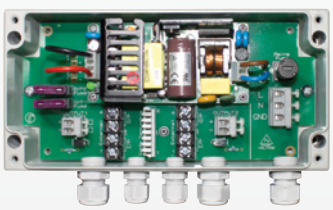
- High Quality IP66 Aluminium Enclosure
- Automotive blade output fuses - fast and easy sourcing and replacement

### Controlled

- Provides correct power for all VARIO illuminators
- Slowblow input fuse - replaceable without disconnecting mains input
- Status indicators signify correct voltage



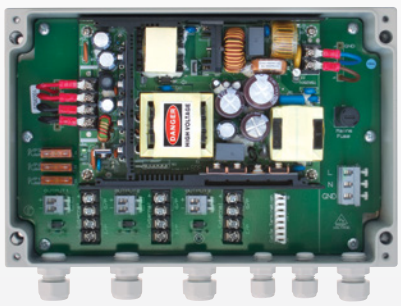
VAR-PSU-1x2 (small)



VAR-PSU-2x4 (medium)



VAR-PSU-2x8 (large)



VAR-PSU-3x8 (x-large)

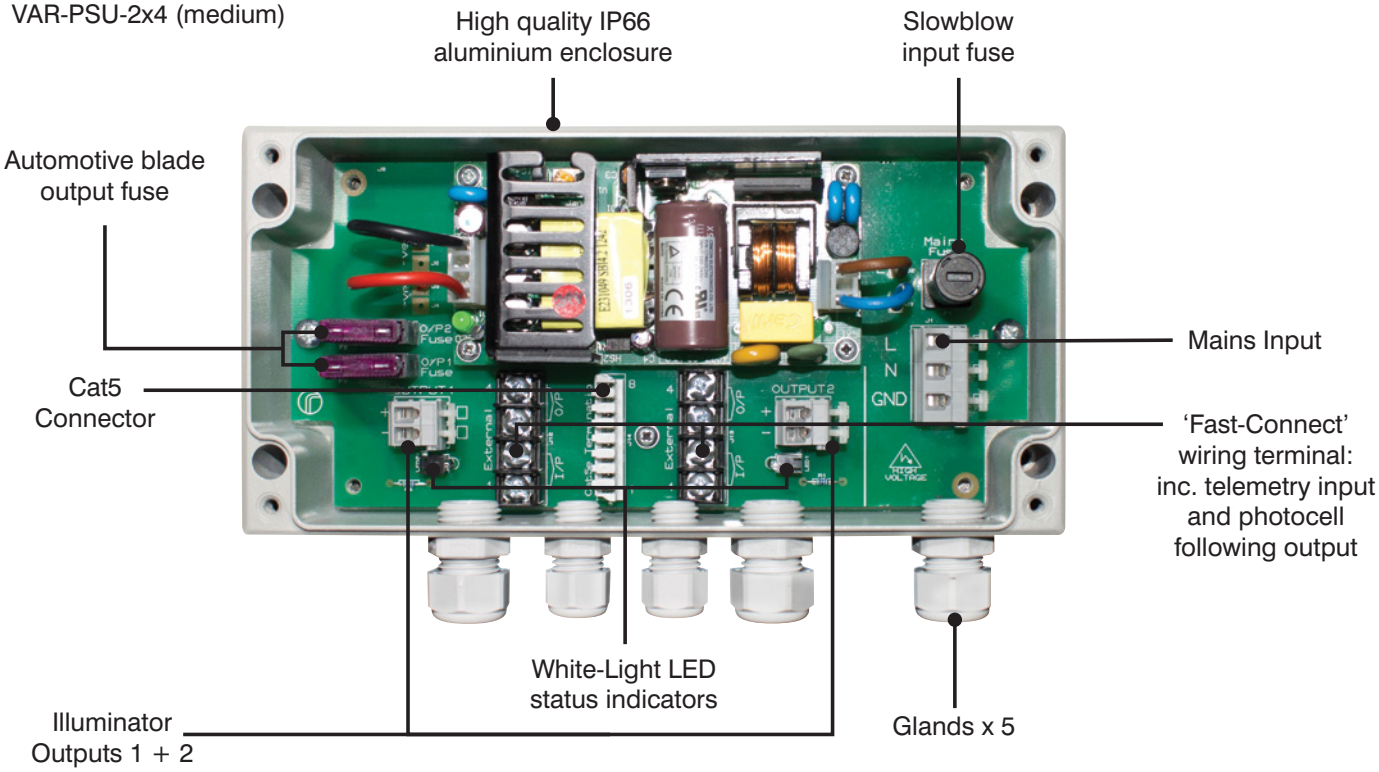
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Version 1

# VARIO PSU Diagram

Model shown:
VAR-PSU-2x4 (medium)




| Features | Benefits |
|---|---|
| Purpose designed PSU for VARIO illuminators | Provides correct power and provides easy wiring and installation |
| A full family of VARIO PSU's | Can power any VARIO illuminator |
| Multiple outputs<br>(available on medium, large, and x-large model) | Ability to run multiple VARIO units from a single PSU |
| Cat 5 connector<br>(available on medium, large, and x-large model) | Easy CAT5 connection for VARIO IP illuminators |
| 'Fast-Connect' Wiring | Robust terminal for fast and easy wiring of all input/output connections |
| White-Light LED status indicators | To identify correct output voltage and provide support illumination during installation and maintenance |
| High quality IP66 aluminium enclosure | Suitable for all environmental conditions |
| Automotive blade output fuses | Fast, easy sourcing and replacement |
| Slowblow input fuse | Can be replaced without disconnecting mains for easier and safer installation and maintenances. |

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# Technical Specifications

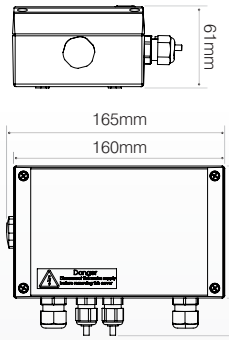
| | VAR-PSU-1x2 (small) | VAR-PSU-2x4 (medium) | VAR-PSU-2x8 (large) | VAR-PSU-3x8 (x-large) |
|---|---|---|---|---|
| Illuminators (standard) | 1x VARIO 2 series plus aux output (max 8W) | 2 x VARIO 4 series | 2 x VARIO 8 series | 3 x VARIO 8 series |
| Other Illuminator options | | 4 x VARIO 2 series* | 4 x VARIO 4 series*<br>8 x VARIO 2 series* | 6 x VARIO 4 series* |

*Please note: for medium, large and x-large PSUs powering an increased number of VARIO illuminators, the total power of the illuminators must be equivalent to the PSU max output - illuminator output cables may also need to be commoned together to suit the number of available glands.

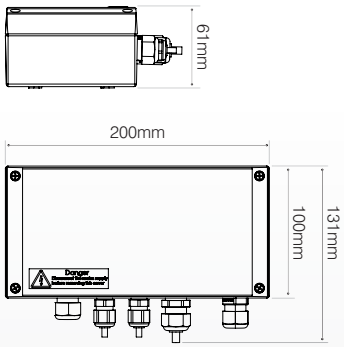
Mixed model sizes of VARIO illuminators can be powered from the same PSU
e.g. VAR-PSU-2x4 can also run 2 x VARIO 2 series and 1 x VARIO 4 series

| | | | | |
|---|---|---|---|---|
| Input | 100-230V AC | | | |
| Input Fuse Type | 20mm, slowblow, user replaceable without disconnecting mains input | | | |
| Input Fuse Rating | 1A | 2.5A | 2.5A | 2.5A |
| Max Output | 20W | 50W | 100W | 150W |
| Output for VARIO Illuminators | 1 for VARIO 2 series | 2 for VARIO 4 series or equivalent power units | 2 for VARIO 8 series or equivalent power units | 3x VARIO 8 series or equivalent power units |
| Output Fuse Type | automotive, blade, user replaceable | | | |
| Output Fuse Rating | 3A | 3A | 5A | 5A |
| FastConnect™ wiring | Quick and easy wiring for VARIO input and output connections - 4 way robust terminal for telemetry input and photocell following output | | | |
| White Light status LEDs | White-Light LED status indicators on all fused outputs to indicate correct voltage and to provide support illumination during installation and maintenance | | | |
| Cat5 Connector | N/A | Cat5 Connector for VARIO IP | Cat 5 Connector for VARIO IP | Cat 5 Connector for VARIO IP |
| Glands | 2x M16, 2x M12, IP68 | 3x M16, 2x M12, IP68 | 3x M16, 2x M12, IP68 | 4x M16, 2x M12, IP68 |
| Enclosure construction | High quality, power coated, IP66 aluminium | | | |
| Dimensions | 160 x 129 x 61 mm | 200 x 131 x 61 mm | 160 x 191 x 81 mm | 240 x 191 x 81 mm |
| Weight | 0.9kg | 1.0kg | 1.7kg | 2.4kg |
| IP Rating | IP66 | | | |
| Certification | CE compliant | | | |
| Accessories available | External mounting feet | | | |

VAR-PSU-1x2 (small)

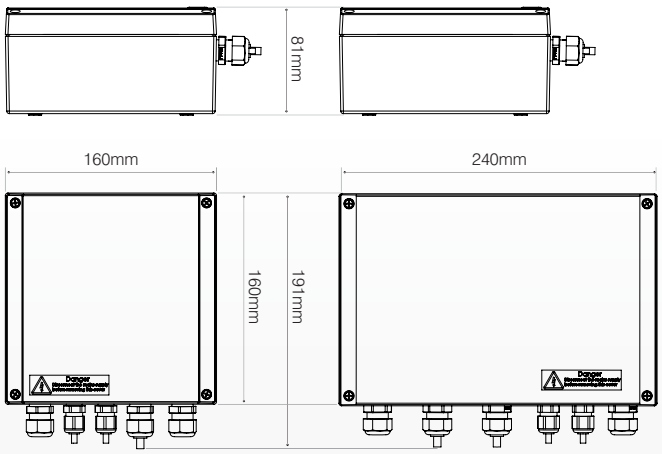



VAR-PSU-2x4 (medium)




VAR-PSU-2x8 (large)

VAR-PSU-3x8 (x-large)




## Part Codes

| | |
|---|---|
| VAR-PSU-1x2 | VARIO PSU - 24V, 20W, 1xO/P for 1x2 series VARIO illuminator |
| VAR-PSU-2x4 | VARIO PSU - 24V, 50W, 2xO/P for 2x4 series VARIO illuminators |
| VAR-PSU-2x8 | VARIO PSU - 24V, 100W, 2xO/P for 2x8 series VARIO illuminators |
| VAR-PSU-3x8 | VARIO PSU - 24V, 150W, 3xO/P for 3x8 series VARIO illuminators |

## 3 YEAR WARRANTY

All Raytec power supply units are provided with a 3 year warranty. Raytec power supply units are IP66 rated, robust and highly durable for long life and operation in all environmental conditions.

3 YEAR WARRANTY

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