

Go The Distance

VARIO2 Next Generation High Performance LED Illuminators



rayTEC®



Discover VARIO2

VARIO2 delivers world leading power and illumination distances.

As the next generation to Raytec's award winning VARIO range, VARIO2 illuminators advance night-time surveillance further than ever before.

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 is the key to unlocking outstanding performance from your video surveillance system at night, and delivering the best images in the most challenging low light environments.

Go the Distance, Go Powerful, Go Specify, Go Secure, Go IP, Go with the Best. VARIO2.

Go The Distance

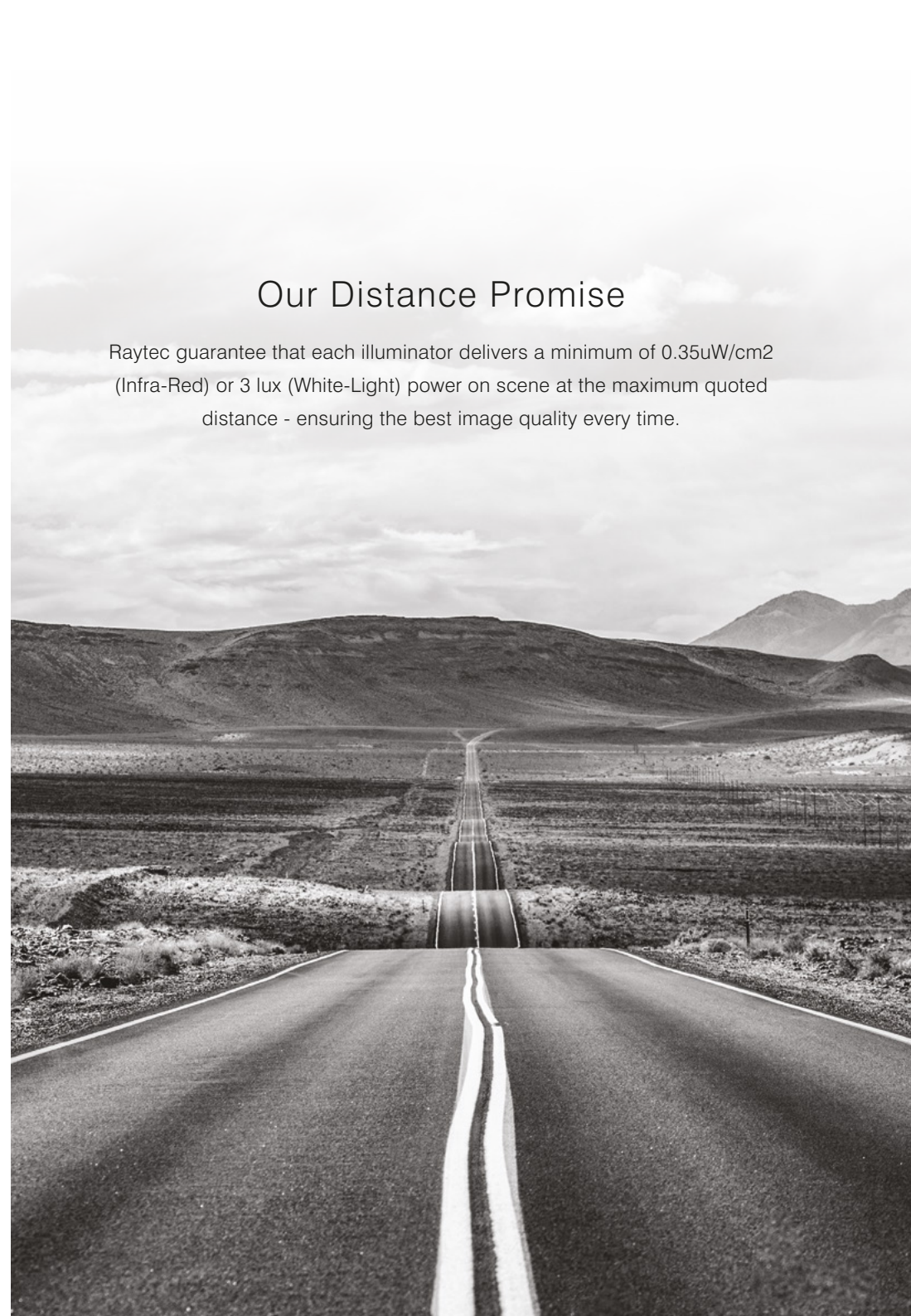
Covering ultra-long distances VARIO2 illuminators enable video surveillance cameras to capture outstanding images at distances up to 500m (1640ft) from a single illuminator.

This increase in distance performance offers you more flexibility to meet challenging installation requirements from both Infra-Red and White-Light illuminators.

Furthermore, Raytec's Distance Promise guarantees you a minimum light level of $0.35 \mu\text{W}/\text{cm}^2$ (Infra-Red) and 3 Lux (White-Light) at the quoted maximum distance of every illuminator to ensure the best image quality 24/7.

Our Distance Promise

Raytec guarantee that each illuminator delivers a minimum of $0.35 \mu\text{W}/\text{cm}^2$ (Infra-Red) or 3 lux (White-Light) power on scene at the maximum quoted distance - ensuring the best image quality every time.



Infra-Red Single Panel

Horizontal Angle of View (Degrees)

		Maximum Distance (Metres) (Not shown to scale)																						
		18	24	30	36	45	50	54	65	70	78	95	105	120	135	144	165	200	250	350	500			
10	VAR2-i2-1 10x10°										VAR2-i4-1 10x10°					VAR2-i6-1 10x10°			VAR2-i8-1 10x10°			VAR2-i16-1 10x10°		
20	VAR2-i2-1 35x10°								VAR2-i4-1 35x10°			VAR2-i6-1 35x10°			VAR2-i8-1 35x10°			VAR2-i16-1 35x10°						
35	VAR2-i2-1 35x10°								VAR2-i4-1 35x10°			VAR2-i6-1 35x10°			VAR2-i8-1 35x10°			VAR2-i16-1 35x10°						
40	VAR2-i2-1 60x25°					VAR2-i4-1 60x25°		VAR2-i6-1 60x25°		VAR2-i8-1 60x25°		VAR2-i16-1 60x25°												
50	VAR2-i2-1 60x25°					VAR2-i4-1 60x25°		VAR2-i6-1 60x25°		VAR2-i8-1 60x25°		VAR2-i16-1 60x25°												
60	VAR2-i2-1 60x25°					VAR2-i4-1 60x25°		VAR2-i6-1 60x25°		VAR2-i8-1 60x25°		VAR2-i16-1 60x25°												
80	VAR2-i2-1 80x30°			VAR2-i4-1 80x30°		VAR2-i6-1 80x30°		VAR2-i8-1 80x30°			VAR2-i16-1 80x30°													
120	VAR2-i2-1 120x50°	VAR2-i4-1 120x50°	VAR2-i6-1 120x50°	VAR2-i8-1 120x50°	VAR2-i16-1 120x50°																			

The VARIO2 Infra-Red series includes i2, i4, i6, i8 and i16 variants.

White-Light Single Panel

Horizontal Angle of View (Degrees)

		Maximum Distance (Metres) (Not shown to scale)																								
		12	18	20	25	35	40	48	50	60	65	70		95	110		125		180		250					
10		VAR2-w2-1 10x10°										VAR2-w4-1 10x10°					VAR2-w8-1 10x10°					VAR2-w16-1 10x10°				
20		VAR2-w2-1 35x10°								VAR2-w4-1 35x10°				VAR2-w8-1 35x10°				VAR2-w16-1 35x10°								
35		VAR2-w2-1 35x10°								VAR2-w4-1 35x10°				VAR2-w8-1 35x10°				VAR2-w16-1 35x10°								
40		VAR2-w2-1 60x25°				VAR2-w4-1 60x25°		VAR2-w8-1 60x25°			VAR2-w16-1 60x25°															
50		VAR2-w2-1 60x25°				VAR2-w4-1 60x25°		VAR2-w8-1 60x25°			VAR2-w16-1 60x25°															
60		VAR2-w2-1 60x25°				VAR2-w4-1 60x25°		VAR2-w8-1 60x25°			VAR2-w16-1 60x25°															
80		VAR2-w2-1 80x30°			VAR2-w4-1 80x30°		VAR2-w8-1 80x30°		VAR2-w16-1 80x30°																	
120		VAR2-w2-1 120x50°	VAR2-w4-1 120x50°	VAR2-w8-1 120x50°	VAR2-w16-1 120x50°																					

The VARIO2 White-Light series includes w2, w4, w8 and w16 variants.

Go Powerful

Using the latest Platinum Elite SMT LED technology, VARIO2 illuminators deliver more light output than ever before, allowing cameras to capture the highest definition images.

“The performance of VARIO2 illuminators has experienced a massive increase from its predecessor.” says David Lambert, Raytec's Managing Director (Joint).
“This provides more light on scene for the latest video surveillance technologies including 4K, Megapixel and Multi-sensor cameras: Technologies that require more light to cover larger areas.”

VARIO2 delivers up to a

236%

increase in light output from
its predecessor, VARIO 1



Achieve Outstanding Images

Light governs image quality, and the right quantity and quality of light helps you to achieve the best performance from your camera and lens. VARIO2 features a unique Interchangeable Lens System that enables you to quickly and easily adjust the angle of illumination to match the camera field of view – for perfect alignment and the very best images at all times.

VARIO2 illuminators also utilise hot-spot reduction technology (HRT). This places more light where it is most needed, providing an even distribution of light throughout the scene. The result is full scene images with outstanding quality of illumination, so that your camera is able to capture an event anywhere in the scene at any time.

Empower Digital Zoom

Zooming in to see clear detailed images of key areas is easier with VARIO2 illuminators.

With Raytec's Distance Promise, VARIO2 illuminators guarantee the optimum light levels on scene so video surveillance cameras can capture every detail at distances up to 500m (1640ft).



Go Specify

VARIO2 is the first range of illuminators to be provided with standardised and scientifically tested lighting data to support its performance claims.

This is part of the industry's first lighting standard for video surveillance – 'POWERS'. It is designed to help all security professionals to more easily specify and reliably compare the performance of different illuminators. It also provides an understanding as to how a chosen lighting product will perform.

Based on decades of experience, POWERS data is available for all VARIO2 illuminators. It allows security professionals to specify with confidence, with reliable and consistent information on which to base their choices.

POWERS The Open Standard for Video Surveillance and Security Lighting

Manufacturer: Raytec

Model: VAR2-i8-1 10x10°

Wavelength: Infra-Red (850nm)

P_p Peak Power	5000	μW/cm² @ 3m	=	Max Distance	>350m / 1148ft	@ 0.35m μW/cm2						
O_p Overall Power	14.38	Watts										
W_A Width Angle	7.5°	@ 50%	15°	@ 25%	From Peak Power reading							
Environmental	Total Power Consumption:		46.3	Watts	Eye Safety:	Risk Group 2						
	Certification / Compliance:		RoHS	<input checked="" type="checkbox"/>	REACH	<input checked="" type="checkbox"/>	WEEE	<input checked="" type="checkbox"/>	ISO14001	<input checked="" type="checkbox"/>		
Reliability	Warranty Duration:		5	Years	Warranty Exclusions:		None					
	Certification:		CE	<input checked="" type="checkbox"/>	EMC	<input checked="" type="checkbox"/>	UL	<input checked="" type="checkbox"/>	CSA	<input checked="" type="checkbox"/>	ISO9001	<input checked="" type="checkbox"/>
	Lifetime:		100,000	hours @ L70/B50								
Specification / Features	VARIO Interchangeable lensing			Photocell and Photocell adjust			LED status indicator					
	Timer Function			Remote Dimming			PLATINUM Elite LED					
	Power Adjust			Telemetry Control			Hot Spot Reduction Technology					
	Photocell following output			Optional Remote Control								
	Country of Manufacture: United Kingdom											

Example of POWERS data available from Raytec

Go Increased Security

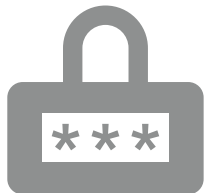
New to the VARIO2 range is a suite of advanced security features. The new features make installation and maintenance much easier and allow users to operate their lighting more securely.



VARIO Remote Control



Manual Programming Inputs



Pin Code Authentication



Disable Programming Access

All VARIO2 illuminators can be quickly and easily configured from ground level via a hand held VARIO remote control. This reduces the cost and time of installation and commissioning. Where remote operation is not possible, new manual programming inputs on VARIO2 illuminators allow for basic set-up of individual units at the press of a button.

To protect access to the settings on VARIO2 illuminators both the remote control and manual programming inputs can be disabled and PIN code authentication is available.



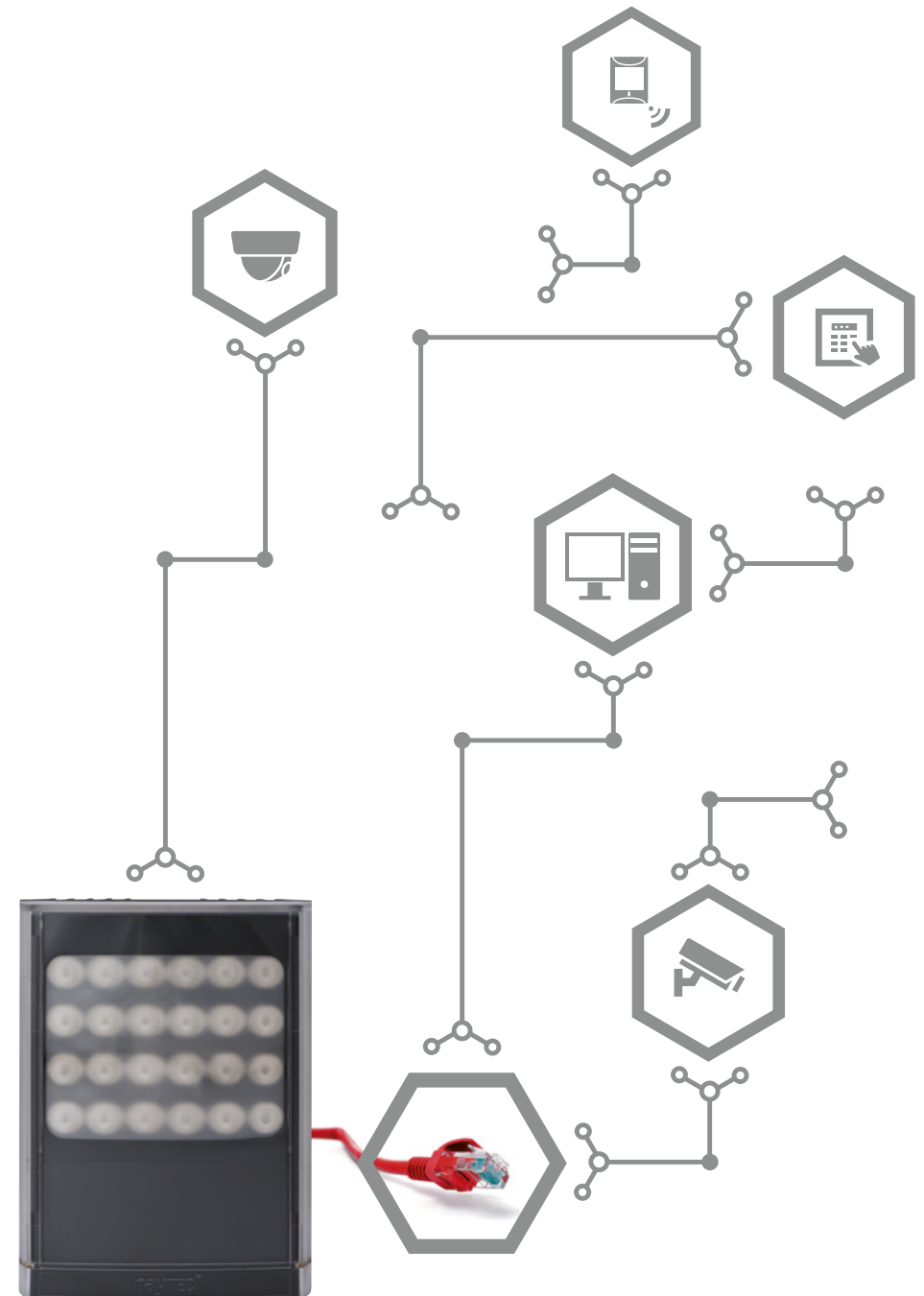
Go IP

Lighting functionality, configurability, and performance reach a new benchmark with the VARIO2 IP series of network illuminators.

Fully IP addressable, VARIO2 IP enables you to create dynamic lighting systems, capable of automatically delivering the exact amount of light where and when it is needed to both improve image quality and to deter crime.

You are able to instantly control individual or groups of illuminators, configure automatic lighting actions, and fully integrate IP lighting into 3rd party technology platforms and network enabled devices.

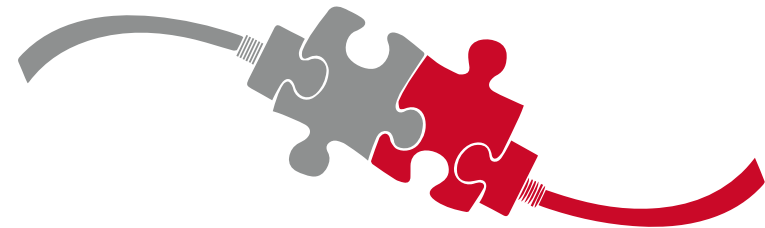
With all the additional benefits of the VARIO2 range such as improved distances and POWERS specification data, the VARIO2 IP range of illuminators delivers a lighting solution for the increasingly IP-based integrated security landscape.





Integrated Web Interface

VARIO2 IP illuminators enable direct control from anywhere on the network via an integrated web interface. This allows you to instantly respond to live events or pre-configure a host of automatic lighting responses. Whether you want to adjust your lighting to fine tune your surveillance images, or alter lighting behaviour in response to operational changes, VARIO2 IP provides the ultimate flexibility at your fingertips.



3rd Party Integrations

VARIO2 IP illuminators are fully integrated with leading security platforms such as Avigilon ACC™, Axis ACAP, Genetec Security Centre, and Milestone XProtect. It has never been easier for lighting to connect and communicate with other network devices - providing a seamlessly integrated security solution and advanced system intelligence.

Go PoE

A new addition to Raytec's VARIO range are dedicated PoE illuminators.

Powered over a PoE system, VARIO PoE lighting can be plugged into your existing network infrastructure without the need for additional power supply units offering a simple and low cost installation.

Available in three product sizes and three power level options 12W (af), 25W (at) and 50W (PoE++), VARIO PoE illuminators are designed for systems looking to achieve energy and cost efficiency.

The VARIO PoE range comes with all standard VARIO2 features including superior distance performance, POWERS specification data and increased security settings, making it even easier to add lighting to video surveillance systems.



Go Support



Free Lighting Design

Raytec's team of expert lighting designers can help you design a lighting scheme that is tailored to your individual requirements. Raytec offer both 2D and 3D lighting design plans to highlight the best possible lighting positions, number of fittings and detailed lighting levels.



Consultant Specification Data

The VARIO2 range is available with full 'POWERS' information - scientifically tested lighting data to support its performance claims.

POWERS data allows security professionals to specify with confidence, with reliable and consistent information on which to base their choices. For full POWERS data and A&E specifications please contact sales@rayteccctv.com



Product Evaluation Service

In our experience there really is no substitute for trialling your new lighting system on-site before installing, and we know that seeing a live demonstration is an important decision making tool.

Raytec are pleased to offer a product evaluation service to our customers to demonstrate the working performance of our products. Speak to us to arrange your demo.

Go with the Best

Achieve the Best Surveillance Images

All Raytec LED lighting delivers crisp, even illumination for the very best image quality at night, at distances up to 500m from a single illuminator.

Improve Video Analytics

Good lighting reduces noise which allows video analytics to work to its full potential, accurately identifying objects in scene whilst significantly reducing false alarms.

Deter Crime

LED lighting from Raytec is designed to instantly respond to activity on site. Fully integrated in to any system, white-light illuminators can provide a proactive and highly effective crime deterrent.

Lower Energy Costs

Raytec lighting significantly lowers system running costs, consuming far less power than traditional lighting solutions. With smart techniques for activation on event, it can reduce costs even further.





A Name you can Trust

As world leaders in lighting for video surveillance, Raytec have been dedicated to Innovation + Illumination and driving the evolution of LED lighting technology for more than 10 years.

With an unrivalled history of world first products and industry awards, Raytec is committed to providing class leading customer service and smarter lighting solutions at the cutting edge of technology. Raytec lighting solutions are dedicated to helping all security professionals achieve the very best video surveillance performance at night and the highest level of security and safety at all times.



An Illuminating Choice
for Any Application

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