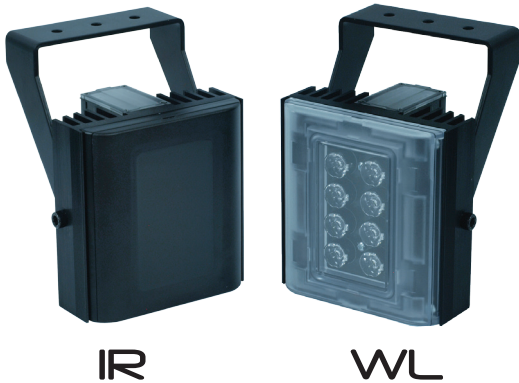


# Clarius<sup>®</sup> PLUS IP

Infrared & White Light LED Illuminators



- Dual Core<sup>®</sup> LED Technology
- Interchangeable Lens Diffuser Technology

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## Specification

<b>Electronics</b>	High efficiency surface mount high power LEDs with advanced current limited integral control circuitry
<b>Beam Angles</b>	10°, 20°, 30°, 60°, 80° & 95°
<b>Lens/Beam Pattern</b>	The illuminator should be matched to the scene and the camera lens focal length
<b>Wavelength</b>	850nm, 940nm and visible white light
<b>Expected Life</b>	10 years
<b>Consumption</b>	Clarius IM / Clarius VM 25W
<b>Input Voltage</b>	PoE+ (IEEE802.3at)
<b>Operating Temp</b>	-50° to 50° (-58° to 122°F)
<b>Environmental</b>	IP66. Suitable for indoor and outdoor use
<b>Construction</b>	Robust high quality aluminium extrusion
<b>Front Window</b>	Polycarbonate high transmittance protection (vandal-proof) with CleanLITE <sup>®</sup> technology
<b>Dimensions</b>	Clarius IM / Clarius VM 114 x 110 x 78mm
<b>Weight</b>	Clarius IM / Clarius VM 1.05kg (2.3lbs)
<b>Power Cable</b>	1m. With IP68 connector
<b>Mount</b>	Black power coated stainless steel wall mount. Adjustable via M6 Allen Key (included)

## Description

A complete range in infra-red and white light illuminators for CCTV, the visible and Invisible range feature state of the art technology and installation friendly design.

- Energy efficient, low voltage operation for quick and easy installation
- **Dual Core LED<sup>™</sup>** technology with advanced electronic control circuitry deliver improved thermal management, long life and low cost of ownership.
- **CleanLITE<sup>®</sup>** Self cleaning lens coating technology
- Semi covert, covert and visible white light versions.
- Built in photo cell
- Easy integration with day/night cameras with relay contacts indicating if the built in photo cell has activated the illuminator
- Remote telemetry input
- Easy access to power and photo cell adjust
- Pressure equalisation vent prevents thermal expansion and pressure cycling
- Interchangeable lens diffuser technology



## Installation

### Note:

- Only to be installed outside of arms reach
- Installation should be done by skilled personnel or under supervision of such personnel
- The illuminator is PoE+.
- Only to be installed in restricted Access Areas
- Terminal block not included. Installation may require advice from a qualified person

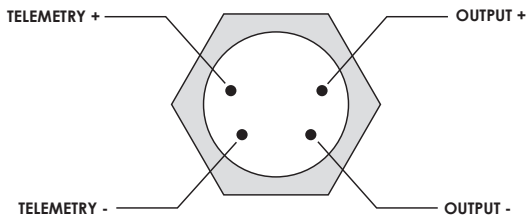
Optimum results are achieved by setting up at night and viewing the results on a monitor.

1. Attach the illuminator mount to pan/tilt unit, wall or camera housing. Using stainless steel fixings suitable for the relevant application.
2. Connect the lamp to a suitable (SELV) power supply.
3. Commission the mains supply, camera and monitoring equipment.
4. Select the diffuser angle sheet required from the Clarius box (if required). **To position the required diffuser sheet, insert the tool included in the slot at the bottom of the cover and prise upwards slowly. Repeat at opposite end and carefully remove cover. Remove backing sheet from the two adhesive discs and secure required diffuser in position.** Finally firmly clip the lens cover back into place.



5. Adjust the pan angle of the illuminator to match the camera field of view.
6. Adjust the vertical alignment by loosening the side bolts (one on each side of the main body) to maximise the results.
7. Tilt the lamp downwards until the rear part of the required field of view is saturated with light, as viewed on the monitor.
8. SLOWLY and GRADUALLY tilt the lamp upwards until the front part of the required field of view is illuminated correctly on the monitor.

## Power and Control Cable Connections



### Remote Switching

The Illuminator may be activated remotely by a volt-free contact latched across the telemetry wires (see Diagram above).

### Photocell following contact

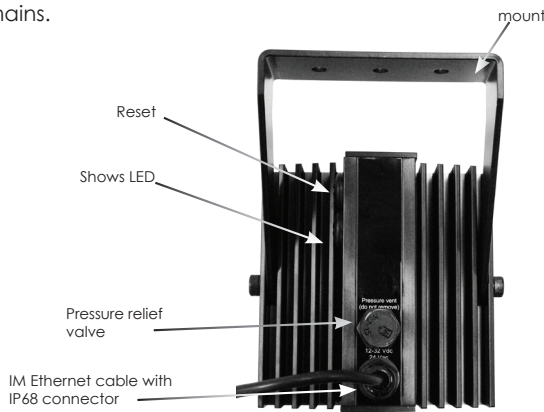
Volt-free relay contact-normally open (day) to normally closed (night). See Diagram above.

### Recommended PSU

Switch or injector compliant Any IEEE802.3at

Power supply should be approved to relevant EN Safety standards. Power Supply should be used with devices to protect against short circuits and overload.

External circuits used for interfacing with the illuminator (Camera Day/Night switching and Telemetry) should be reinforced/double insulated from mains.



## Certifications

This product complies with the European Directive 2014/30/EU Electromagnetic Compatibility and 2014/35/EU Low Voltage Directive by meeting the following standards:



<b>CE-EMC</b>	EN55032	(IT Immunity)
	EN55024	(IT Emission)
	EN 61547	(Lighting-Immunity)
	EN 55015	(Lighting-Emission)
	EN 62493	(Lighting -EMF)
<b>CE-LVD</b>	EN 50130-4	(Alarm-EMC)
	EN 60598-1	(Luminaires-General)
	EN 60598-2-1	(Luminaires)
<b>Safety</b>	EN 62471 Risk group 2	(LED safety)
	IEC/EN 60529	IP66
<b>Environmental</b>	EN50130-5	(Alarm-environmental)
	EN 1598	
<b>USA</b>	cULus, UL 1598	
	FCC, Class B	
<b>AUS</b>	RCM (AS/NZS CISPR 22 Class B)	
<b>WEEE:</b>	Waste Electrical & Electronic Equipment European directive 202/96/EC	
<b>RoHS:</b>	Restriction of Hazardous Substances European directive 202/95/EC	

This symbol on the product means that the electrical and/or electronic equipment to which it relates should be disposed of at the end of life separately from domestic household waste.

There are separate collection systems for recycling in the EU. For more information please contact the Local Authority or supplier of the product.

### Photocell

The photocell is designed to automatically switch the lamps on at dusk and turn off at dawn. A high degree of hysteresis is incorporated to void on/off switching in marginal conditions. The unit is factory set at approximately 30 Lux On and 70 Lux Off, but can be adjusted.

## Clarius IP

Illuminators are powered by Power over the Ethernet (PoE) via a network cable connector to a PoE IEEE802at compliant switch.

The power consumption of the illuminators comply with PoE IEEE802at.

These illuminators are not supplied with a power cord. Instead, they are supplied with a 1m long network cable. At the end of the network cable is a female RJ45 Cat5e compliant connector with an IP68 rated cover.

The IP68 rated cover is supplied with the illuminator. Follow the instructions supplied with the connector on how to attached it to the male Cat5e network cable.

**ENSURE THAT THE IP68 RATED COVER IS CORRECTLY FITTED AND ATTACHED TO THE NETWORK CABLE. IF THIS IS NOT FITTED CORRECTLY MOISTURE CAN GET INTO THE CONNECTOR AND MAY CAUSE THE UNIT TO MALFUNCTION. THIS WOULD VOID THE WARRANTY ON THE PRODUCT.**

### Safety Warning

- When the lamp is running, it is hot to touch, before touching switch off the illuminator and allow to cool for a minimum of 10 minutes.
- The illuminator should be positioned so that prolonged staring into the illuminator at a distance closer than 1m is not expected.
- The light source of this illuminator is not replaceable, when the light source reaches its end of life the whole illuminator should be replaced.
- If the flexible power cord of the illuminator is damaged it should be exclusively replaced by an authorised service agent.
- This equipment is not suitable for us in locations where children are likely to be present.

### Factory Default Settings

When using the system for the first time, or if a factory reset has been made, the following settings are used.

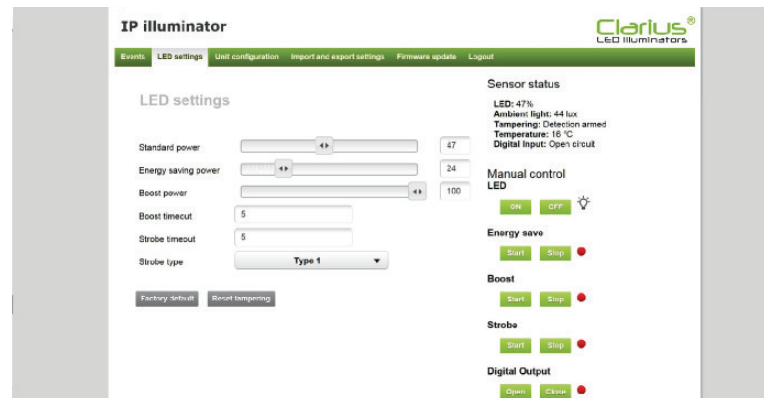
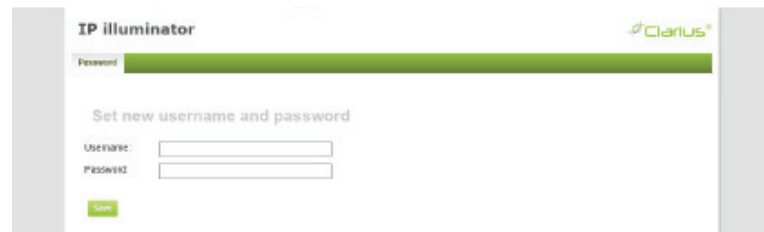
**Product IP number:** 192.168.0.10

**Subnet mask:** 255.255.255.0

**Default router:** 192.168.0.1

### Login

- Open a web browser.
- In the address field, type in the selected unit IP-address.
- The user interface login page is shown.
- Create your username and password.



### Trouble Shooting

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

#### Step 1: Basics

- Check power connection
- Ensure PoE+ spectrum switch/injector
- Check the photocell is working - cover photocell ,light should turn on
- Ensure power supply is suitably rated to product - check the specifications

#### Step 2: Set up Camera, lens and Illumination

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

#### Step 3: Call for further assistance

If the lamp is still not delivering the required performance, please contact Technical Support for further assistance

#### Note down:

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