clarius Plus IP Infrared Illuminator Installation Guide

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clarius Plus IP Infrared Illuminator

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™ technology with advanced electronic control circuitry deliver improved thermal management, long life and low cost of ownership.
- CleanLITE® 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

SPECIFICATION

Electronics	High efficiency surface mount high power LEDs with advanced current limited i ntegral control circuitry
Beam Angles	10º, 30°, 60° & 95°
Lens/Beam Pattern	The illuminator should be matched to the scene and the camera lens focal leng th
Wavelength	850nm,940nm and visible white light
Expected Life	10 years
Consumption	26W
Input Voltage	PoE+ (IEEE802.3at)
Operating Temp	-50° to 50° (-58° to 122°F)
Environmental	IP66. Suitable for indoor and outdoor use
Construction	Robust high quality aluminium extrusion
Front Window	Polycarbonate high transmittance protection (vandal- proof) with CleanLITE® t echnology
Dimensions	114 x 110 x 78mm
Weight	1.05kg (2.3lbs)
Power Cable	1m. With IP68 connector
Mount	Black power coated stainless steel wall mount. Adjustable via M6 Allen Key (in cluded)

INSTALLATION

Note:

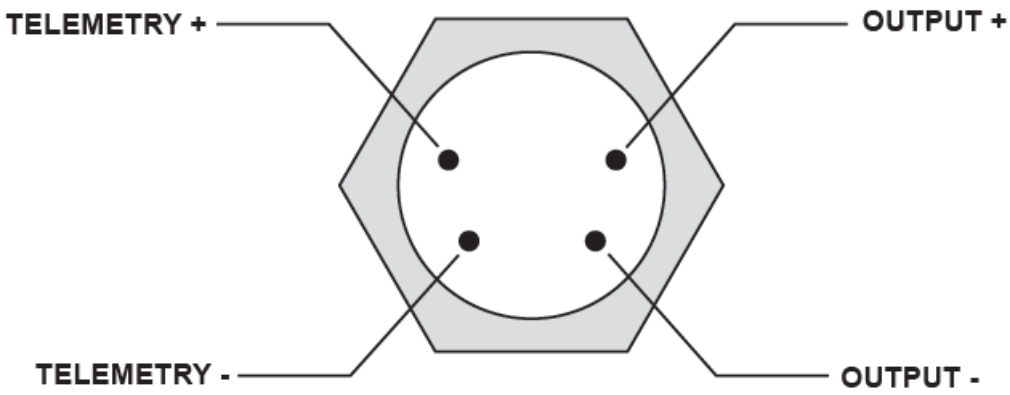
- Only to be installed outside of arms reach
- Installation should be done by skilled personnel or under supervision of such personnel
- The illuminator is PoE+.
- Only to be installed in restricted Access Areas
- Terminal block not included. Installation may require advice from a qualified person

  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 if the required field of view is saturated with light, as viewed on the monitor.
8. SLOWLY and GRADUALLY tilt the lamp upwards until the for part of the required field of view is illuminated correctly on the monitor.

POWER AND CONTROL CABLE CONNECTIONS

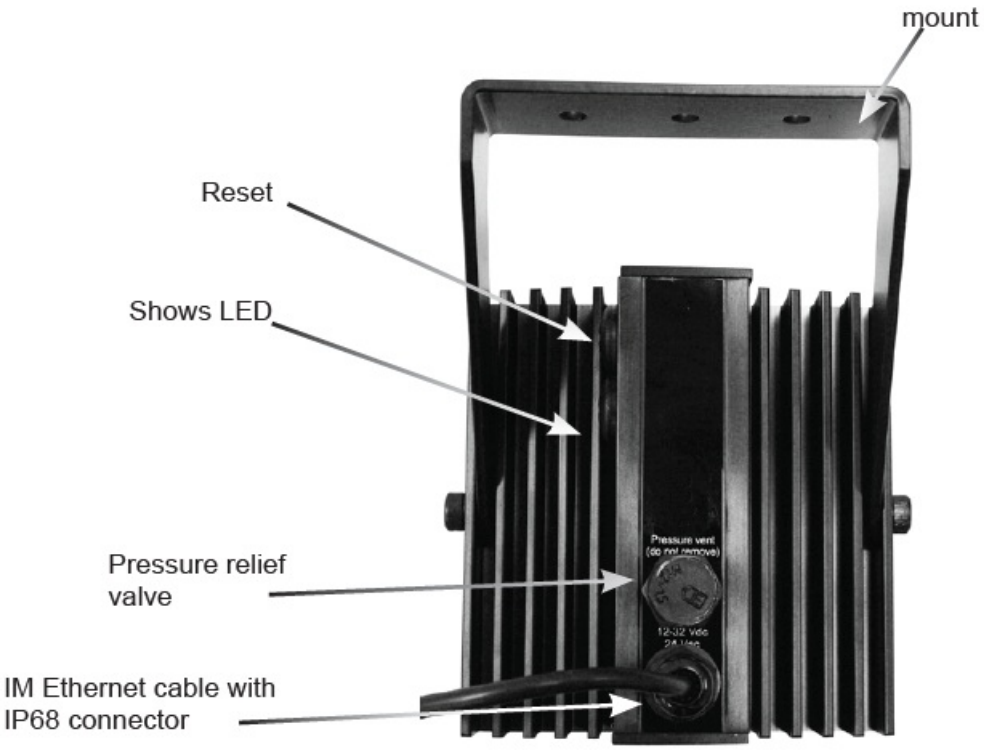


Remote Switching
The Illuminator may be activated remotely by a volt-free contact latched across the telemetry wires (see Diagram above).

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:

CE-EMC	EN55032 EN55024 E N 61547 EN 55015 EN 62493 EN 50130-4	(IT Immunity) (IT Emmision) (Lighting-Immunity) (Lighting-Emission) (Lighting - EMF) (Alarm-EMC)
CE-LVD	EN 60598-1 EN 60598-2-1	(Luminaires-General) (Luminaires)
Safety	EN 62471 Risk group 2	(LED safety)
Environmental	IEC/EN 60529 EN501 30-5	IP66 (Alarm-environmental)
USA	cULus FCC	UL 2108 UL 8750 Class B
AUS	RCM (AS/NZS CISPR 22 Class B)	
RoHS:	Restriction of Hazardous Substances European directive 202/95/EC	
Certifications		
WEEE:	Waste Electrical & Electronic Equipment European directive 202/96/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 if 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

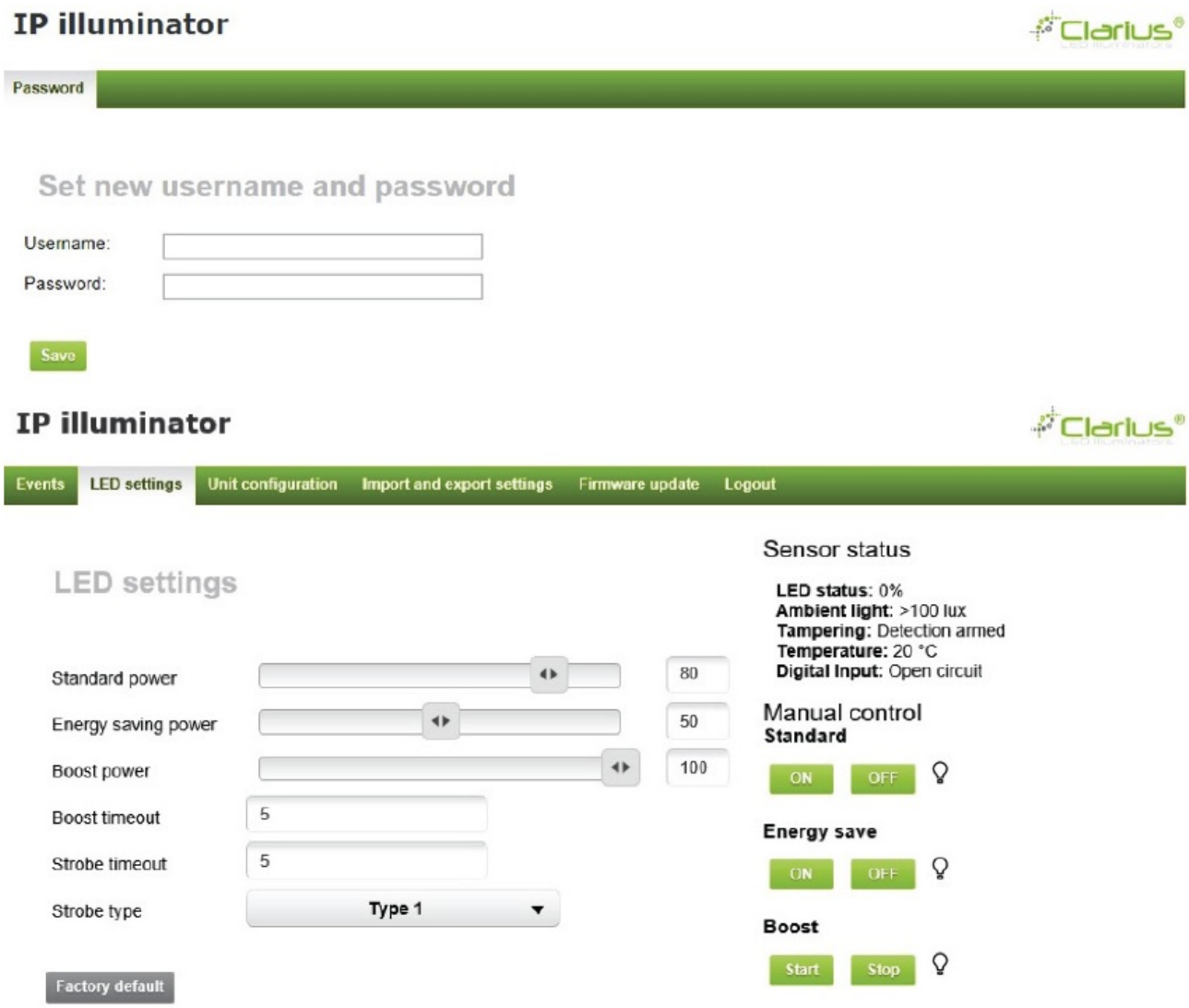
- When the lamp is running, it is hot to touch. before touching switch off the illuminator and allow to cool for a minimum of 10 minutes.
- The illuminator should be positioned so that prolonged starring into the illuminator at a distance closed than 1m is not expected.
- The light source of this illuminator 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

1. Open a web browser.
2. In the address field, type in the selected unit IP-address.
3. The user interface login page is shown.
4. 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 the power supply is suitably rated to the product – check the specifications

Step 2: Set up Camera, lens, and Illumination

- Check alignment of the lamp
- Check camera lens- fully open at night and set correctly
- Check model number to performance specification to ensure the 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:

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

Documents / Resources

	clarius Plus IP Infrared Illuminator [pdf] Installation Guide SECL-IR850-IPPOEPL-M, SECL-IR940-IPPOEPL-M, SECL-WL1856-IPPOEPL-M, Plus IP, Infrared Illuminator, Plus IP Infrared Illuminator