An AVA Group Company

IP

Infrared & White Light LED Illuminators

IM-8-IP
IM-9-IP
VM-CW-IP

Quick Installation Guide

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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
- Pressure equalisation vent prevents thermal expansion and pressure cycling
- Interchangeable lens diffuser technology

RISK GROUP 2 CAUTION IR emitted from this product

Certificate of Compliance to Product Security and Telecommunications Infrastructure Act 2022 – Part 1

Requirements of the Act 2022 – Part 1

1. Passwords
Passwords on all applicable GJD products have the capability to be defined by the user.
2. Information on how to report security issues
If a security issue arises, please contact GJD using techsupport@gjd.co.uk
We aim to acknowledge receipt of any reports within one week with updates on the findings and progress.
3. Information on minimum security update periods
Security updates for GJD products will be made available as and when the need arises. Security updates will be provided until products reach end of life.

Christopher Moore
Head of Intruder Products 26/03/2024

SPECIFICATION

Electronics	High efficiency surface mount high power LEDs with advanced current limited integral control circuitry
Beam Angles	10º, 30°, 60° & 95°
Lens/Beam Pattern	The illuminator should be matched to the scene and the camera lens focal length
Wavelength	850nm,940nm and visible white light
Expected Life	10 years
Consumption	IM / VM 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® technology
Dimensions	IM / VM 114 x 110 x 78mm
Weight	IM / VM 1.05kg (2.3lbs)
Power Cable	1m. With IP68 connector
Mount	Black power coated stainless steel wall mount. Adjustable via M6 Allen Key (included)

INSTALLATION

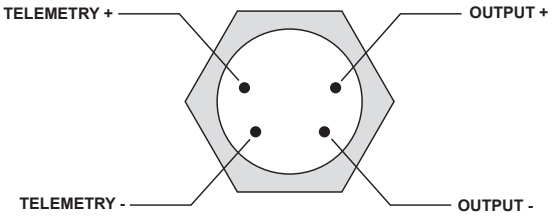
Note:
- Only to be installed outside of arms reach
- Installation should be done by skilled personnel or under supervision of such personnel
- The illuminator is PoE+.
- Only to be installed in restricted Access Areas
- Terminal block not included. Installation may require advice from a qualified person

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 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



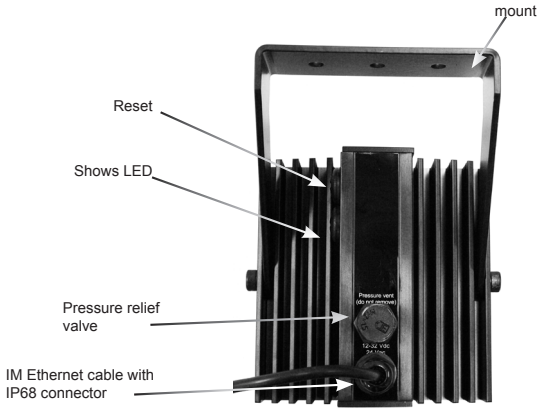
Remote Switching
The Illuminator may be activated remotely by a volt-free contact latched across the telemetry wires (see Diagram above).

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 EN 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 EN50130-5	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	CE UKCA	
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.

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Illuminators are powered by Power over the Ethernet (PoE) via a network cable connector to a PoE IEEE802.3at compliant switch.

The power consumption of the illuminators comply with PoE IEEE802.3at.

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.

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.

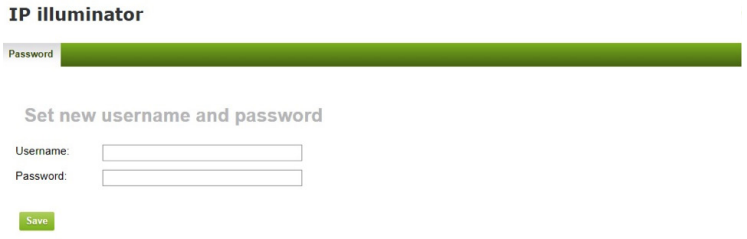
SAFETY WARNING

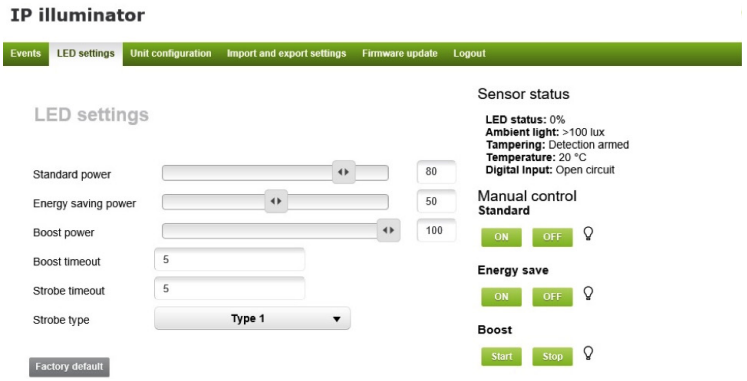
- When the lamp is running, it is hot to touch. before touching switch off the illuminator and allow to cool for a minimum of 10 minutes.
- The illuminator should be positioned so that prolonged starring into the illuminator at a distance closed than 1m is not expected.
- The light source of this illuminator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