

GENERAL

- A. The illuminator shall be a fully IP addressable network device, remotely controllable from any network location.
- B. The illuminator shall be a solid state LED device utilizing SMT (Surface Mount Technology) light intensification miniature optics, with current controlled LED's providing at least 10 years illumination life (44,000hrs night time use).
- C. Infra-Red and White-Light versions shall be available with four model size variants (i4/i8/w4/w8)
- D. Infra-Red models shall be available in 850nm or 940nm versions.
- E. The illuminator will offer control via an integrated web interface for remote set-up, commissioning, operation and maintenance as standard.
- F. The network illuminator's web interface will offer the following lighting control settings as standard:
 - Individual or group control (groups up to 16 units)
 - Power On/Off
 - Power control: 20-100%
 - Boost: 120% power for 10 seconds
 - Deterrent feature with selectable patterns and speeds
 - 3 x deterrent patterns
 - 3 x deterrent speeds
 - Timer functions
 - Soft start turn on
 - Selectable external telemetry input: volt-free or TTL
 - Photocell sensitivity trigger level
 - Assign illuminator to group for collective control
 - Create user and administrator passwords
 - Assign name, group name and ip address
 - Restore factory defaults
 - Restart/reboot
 - Software upgrade
 - Standard and advanced diagnostics
- G. A discovery application will be provided as standard to allow connection directly to each illuminator and its interface.
- H. The IP illuminator will also offer an API for integration into VMS and BMS environments (video management system/ building management system), or to enable HTTP controlled lighting, for full system integration and control and operation in conjunction with all other network technologies on site.
- I. The illuminator shall provide a Cat5 cable as standard for data and power (i8/w8 60W PoE++ and i4/w4 at standard PoE+). The illuminator shall also provide cable for optional low voltage 24V DC input.
- J. The illuminator shall include an adjustable photocell for automatic on/off operation, and a telemetry control input for remote operation and switching.
- K. The illuminator shall provide a photocell-following output.

- L. The LED illuminator shall be vandal resistant and manufactured using high impact polycarbonate lensing and shall incorporate an aluminum extruded heat sink to aid LED life expectancy.
- M. The illuminator shall have an IP66 rating as a minimum.
- N. The illuminator shall have an operational temperature range between -50 to 50°C (-58 to 122°F).
- O. The illuminator shall be CE and FCC approved.
- P. The illuminator shall make use of hot-spot reduction (HRT) technology.
- Q. The illuminator shall make use of interchangeable diffuser-lenses permitting illumination angles of 10x10°, 35x10°, 60x25°, 80x30°, 120x50° and custom diffuser-lenses as an option.

TECHNICAL SPECIFICATIONS

- A. The illuminator shall meet or exceed the following specifications:
 - a. Max. lighting distance: i8 220m (722ft), i4 120m (394ft), w8 150 (492ft), w4 90m (295ft) [Angle dependant]
 - b. Angle of Illumination: 10x10, 35x10, 60x25, 80x30, 120x50 degrees [Interchangeable]
 - c. Optics: Surface mount technology LED's
 - d. Maximum consumption: i8/w8 = 50W max, i4/w4 = 25.5W max
 - e. Power Supply: i8/w8 24VDC or PoE++(4-pair PoE), i4/w4 24VDC or PoE+ IEEE802.3at
 - f. Data Input: Cat5 Cable
 - g. Weight: i8/w8 1.65kg (3.6lbs), i4/w4 0.95kg (2.1lbs)
 - h. Ingress Protection Rating: IP66
 - i. Operating Temperature: -50°C + 50°C (-58 to 122°F)
 - j. Wavelength: 850nm (940nm as an option) or White-Light
- B. The illuminator shall be covered by a manufacturer's warranty of 5 years from the date of purchase.
- C. The illuminator shall be the VARIO IP PoE Network Illuminator manufactured by Raytec or an approved equivalent.