

Gardasoft VCubed VTR2 Traffic Monitoring LED Infrared Strobe Lights

High Intensity Strobed IR and White Light LED Lighting for Traffic Monitoring Applications

Choice of IR Wavelengths

150W Pulse Output Power (850nm)

Fault Tolerant for Low Maintenance

Compact IP66 Enclosure



The Gardasoft VCubed VTR lights provide a powerful LED illumination source for traffic monitoring solutions such as:

Automatic number plate recognition

Face imaging

Traffic speed management

Vehicle type identification

This lighting is suitable for day time and night time operation.

Very Low Maintenance Costs

This type of lighting is typically installed in inaccessible locations and is therefore expensive to repair or replace. LED technology is solid state resulting in much longer lifetime than traditional filament bulb or xenon based solutions. Only low voltages are used, removing electrical safety issues during maintenance.

The VTR2 can be provided with failure tolerance by having spare LEDs which can be enabled remotely if a failure occurs.

VTR2 Range – High Power, Single Housing

Utilising the highest high power infrared LED technology available, the VTR2 system can deliver up to 150W of instantaneous radiant power. It is fully integrated with internal timing, brightness control and long distance communications.

The VTR2 can optionally be operated in a free-running mode from a programmable internal timer. A trigger output signal is available to synchronise cameras.

The compact housings are IP66 rated allowing the lights to be installed very harsh environments.

Features

The VTR2 is an OEM product framework designed for customisation for each application, so the precise feature set will vary depending on the customer's specification.

The VTR lights are available in a choice of white and near-infrared. The beam angle can be specified for a range of working distances.

A trigger input can be used to synchronise the lighting pulse with the exposure of a camera. Full intensity and pulse width control are available through the trigger input and remote communications port. The trigger frequency is internally limited to prevent the lighting being damaged.

Specification

Parameter	VTR2 Specification
Wavelength	White, 740nm, 850nm or 940nm
Pulse Width Timing Control	Precise internal timing generation or external control
Maximum pulse width	3 milliseconds
Maximum trigger frequency	10 kHz
Maximum Duty Cycle at 100% Intensity	2% (1% for 740nm and white light)
Vertical beam angle (Full Angle, ½ Power)	12 or 30 degrees (50 degrees optional)
Horizontal beam angle (Full Angle, ½ Power)	As vertical, but optionally can be up to 100 degrees
Maximum Intensity (850nm)	12 Degrees – 3000 W/Steradian 30 Degrees – 500 W/Steradian 50 Degrees – 200 W/Steradian (optional)
Maximum Intensity (white light)	56,000 lumens
Brightness Repeatability	±1%
Typical Number Plate Range at 850nm ¹	12 Degrees – 200m
Power supply requirements	24V DC ± 5%. 3.2A
Dimensions (excluding cable entry and studs)	246mm wide, 256mm high, 50mm deep
Mounting	M6 x 10mm threaded studs
Trigger Input	Optional, 5V to 24V opto-isolated with spike filtering
Trigger Output	Optional, Programmable frequency
Control/Communication	Ethernet or RS232
Operating Temperature ²	-20°C to +60 °C. There are restrictions at higher ambient temperatures
Storage Temperature	-40°C to +80 °C
Weight	2.7 Kg
Environmental Protection	IP66, weatherproof cabling Sun shield available as optional extra

Notes

- 1) Distances are given for rough guidance only. Actual values will be a function of the application influenced by the target, camera model, camera optics, exposure time and IR wavelength used.
- 2) The quoted lower temperature is based on the system being in operation when this temperature is present. Precautions will need to be taken if turning on the device from cold at the lower temperature extremes

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