

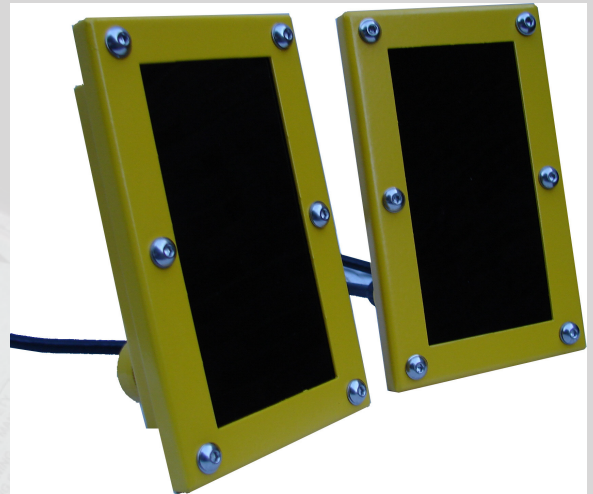
Gardasoft VCubed VTR1 Traffic Monitoring LED InfraRed Strobe Lights

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

Choice of IR Wavelengths

10W Pulse Output Power (850nm)

Compact IP66 Enclosure



VTR1 System

The Gardasoft VCubed VTR1 lights provide a powerful LED illumination source for traffic monitoring solutions such as:

Automatic number plate recognition
Traffic speed management

Face imaging
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, reducing safety issues during maintenance.

VTR1 Range – Compact, Scalable Solutions

The VTR1 is the first generation product. RS232 is used for intensity control. The trigger is 5V with the pulse width controlled by the width of the trigger pulse.

The VTR1 lights can be configured as a master/slave set up, allowing multiple VTR slave light assemblies to be operated from the master VTR1 light to increase power output.

With its small compact size, the VTR1 light has been successfully integrated into applications such as toll enforcement as well as longer range high speed average speed installations.

For demanding applications such as long range or scenarios where the vision system requires a lot of light, the next generation VTR2 light offers a significant increase in light output and strobe speed.

For covert security or surveillance, the 940nm lights have zero visible emissions creating a truly covert installation.

Common Features

The VTR lights are available in a choice of near-infrared and infrared wavelengths. The beam angle can be selected 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.

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

Specification

Parameter	VTR1 Specification
Wavelength	740nm, 850nm, 940nm and white
Pulse Width Control	Internally generated timing or trigger pulse width control
Maximum pulse width	3 milliseconds
Maximum trigger frequency	35 Hz
Vertical beam angle (Full Angle, ½ Power)	12 and 50 degrees
Horizontal beam angle (Full Angle, ½ Power)	12 and 50 degrees
Maximum Intensity (850nm)	12 Degrees – 590 W/Steradian ³ 50 Degrees – 34 W/Steradian ³
Maximum intensity (white light)	14000 lumens ³
Brightness Repeatability	±1%
Typical Number Plate Range at 850nm ¹	12 Degrees – 30m
Power supply requirements	24V DC ± 5%. Max 750mA
Dimensions (excluding cable entry)	148mm wide, 88mm high, 55mm deep
Mounting	M6 x 10mm threaded studs
Trigger Input	5V logic
Trigger Output	None
Control/Communication	RS232
Operating Temperature ²	-20°C to +60 °C. There are restrictions at higher ambient temperatures
Storage Temperature	-40°C to +80 °C
Weight	0.6Kg
Environmental Protection	IP66, weatherproof cabling

Notes

- 1) These 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
- 3) Based on Master And Single Slave Unit

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