



VCT6 High Intensity LED Strobe Lights

Solid State Solutions for Mobile ITS Applications

The Gardasoft VCT6 lights provide a very powerful LED strobe illumination for mobile traffic monitoring solutions including:

Automatic number plate recognition
Red light violation
Open road tolling
Weigh-in motion systems

- Specifically designed for mobile applications
- 0.5kW Pulse Drive to the LED gate array
- 12-24VDC power supply
- Compact IP65 enclosure

High Power, Single housing

Using the highest high power infrared LED technology available, the VCT6 system supplies up to 500W pulses to the LED array. It is fully integrated with internal timing, intensity control, trigger input and long distance communications.

The compact housings are IP65 rated allowing the lights to be installed in very harsh environments, and the product is RoHS compliant.

Range of wavelengths

The VCT6 lights are available in a range of wavelengths and beam angles to match applications with their unique imaging requirements. IR wavelengths for non-invasive applications; White light plus other visible wavelengths are available when specific or additional vehicle/driver details are required.

Triggering input/output

A trigger input signal is available to synchronise the lighting pulse with camera exposure, and the VCT6 can optionally be operated in a free-running mode from a programmable internal timer. The VCT6 can be configured remotely using RS232 or Ethernet communications.

Full intensity and pulse width control are available through the trigger input and remote communications port.

A trigger output function is also available and this is useful in situations where an input from a road sensor, for example, needs to be de-bounced and cleaned up in the VCT6, and a refined signal sent to trigger the camera.

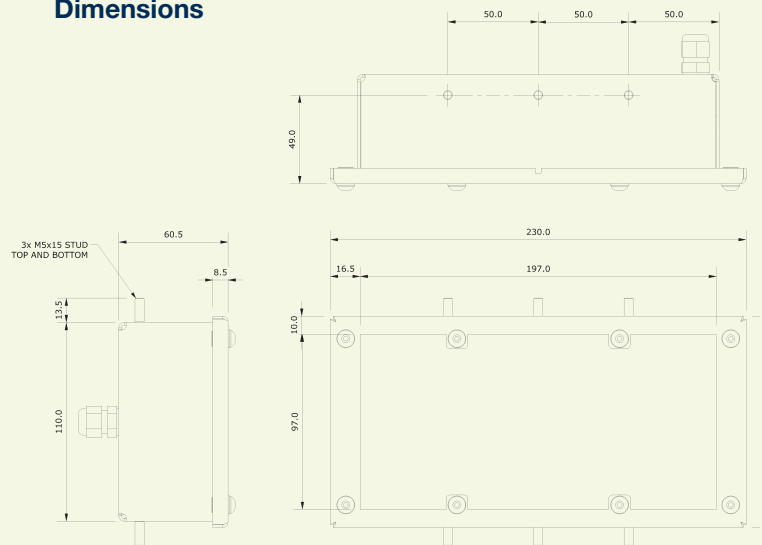
OEM board option

VCT6 systems can be ordered as OEM board units, see datasheet VCT6-T20

Photometric data

Model	Description	Peak measurement at 3.0m
VCT6-850-14	Illuminator, IR LED, 14° beam angle	53W/m ²
VCT6-850-28	Illuminator, IR LED, 28° beam angle	10W/m ²
VCT6-W-12	Illuminator, White LED, 12° beam angle	32kLux
VCT6-W-28	Illuminator, White LED, 28° beam angle	6kLux

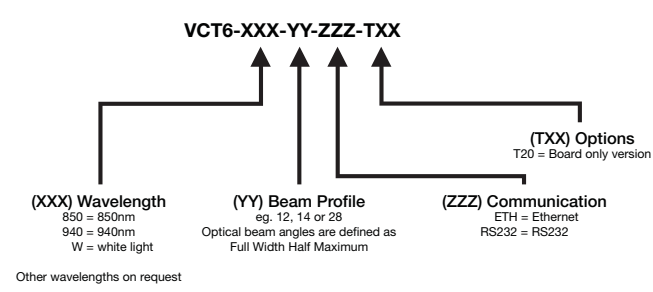
Dimensions



TECHNICAL SPECIFICATIONS

Wavelength	850nm, 940nm, White (others available on request)
Pulse Width Timing Control	Internal timing or external control
Maximum pulse width	2ms
Maximum trigger frequency	10kHz
Maximum Duty Cycle at 100% Intensity	3%
Lighting Drive Power (Pulsed)	500W
Brightness Repeatability	±1%
Power supply requirement	12-24VDC @ 2.5A Average
Dimensions (excluding cable)	230(W) x 117(H) x 60.5(D) mm
Trigger Input	5 ~ 24 VDC optocoupler
Trigger output	Opto-transistor switching 24V at up to 50mA
Operating Temperature	-20°C ~ +55°C
Storage Temperature	-20°C ~ +70°C
Operating Relative Humidity	0% ~ 90% (not condensing)
Front glass	Polycarbonate, dark red (850nm) or clear (White)
Case finishing	Anodized aluminum
Sealing	IP65

ORDERING INFORMATION



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