



VCT6 High Intensity LED Strobe Lights

Solid State Solutions for OEM ITS Applications

The Gardasoft VCT6 lights provide a very powerful LED strobe illumination for OEMs creating ITS 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
- Integral aluminium plate for attachment to heat-sink

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 illuminators are available in Board format or compact IP65 rated housings allowing for flexibility of OEM development design and installation in very harsh environments if required. All VCT6 product are 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.

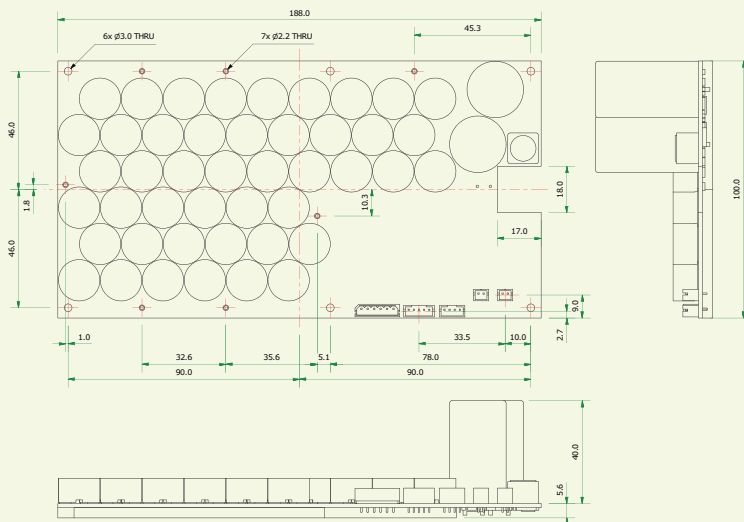
A trigger output function is also available and this is useful in situations where an input from a road sensor, for example, needs to be de-bounced and cleaned up in the VCT6, and a refined signal sent to trigger the camera.

Housing options

VCT6 systems can be ordered as complete board and housings, see datasheet VCT6-v001

Photometric data

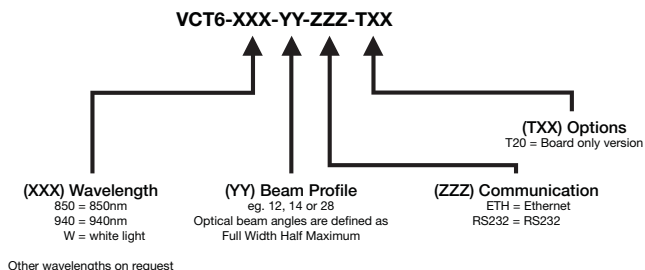
Model	Description	Peak measurement at 3.0m
VCT6-850-14	Illuminator, IR LED, 14° beam angle	57W/m ²
VCT6-850-28	Illuminator, IR LED, 28° beam angle	11W/m ²
VCT6-W-12	Illuminator, White LED, 12° beam angle	34kLux
VCT6-W-28	Illuminator, White LED, 28° beam angle	6.5kLux



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 heatsink plate)	188(W) x 100(H) x 43.4(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)
Heat Dissipation	Maximum 30W
Physical form	PCB assembly for integration into another assembly. Heatsink surface provided

ORDERING INFORMATION



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