



adept electronic

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**electronic solutions**

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## Common Features

The VTR lights are available in a choice of white and infrared wavelengths. 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. There is an internal interlock to prevent the lighting being triggered too fast.

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	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)
Full beam angle to 70% Power	12 and 30 degrees (50 degree optional)
Lighting Drive Power (Pulsed)	940nm: 101W, 850nm: 101W, 740nm: 130W, White: 180W
Brightness Repeatability	±1%
Typical Number Plate Range at 850nm <sup>1</sup>	12 Degrees - 30m
Power supply requirements	24V DC ± 5%. 1A
Dimensions (excluding cable entry)	148mm wide, 88mm high, 55mm 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 <sup>2</sup>	-20°C to +60°C
Storage Temperature	-20°C to +80°C
Weight	0.6Kg
Environmental Protection	IP66

### 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. There are restrictions at higher ambient temperatures.

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