



## 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 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.

## 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)
Full beam angle to 70% Power	12 or 30 degrees (50 degrees optional)
Lighting Drive Power (Pulsed)	940nm: 1210W, 850nm: 1210W, 740nm: 1296W, White: 2052W
Brightness Repeatability	±1%
Typical Number Plate Range at 850nm <sup>1</sup>	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 <sup>2</sup>	-20°C to +60°C
Storage Temperature	-20°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. There are restrictions at higher ambient temperatures.

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