



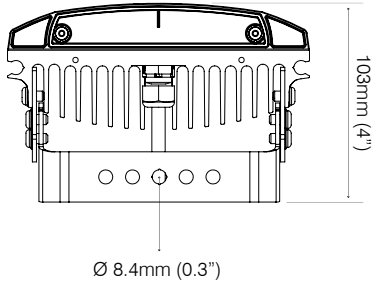
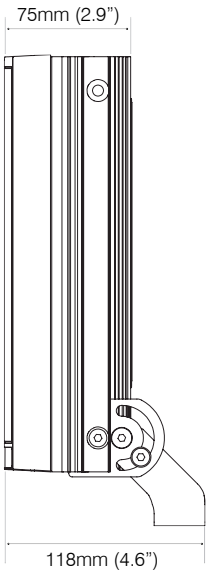
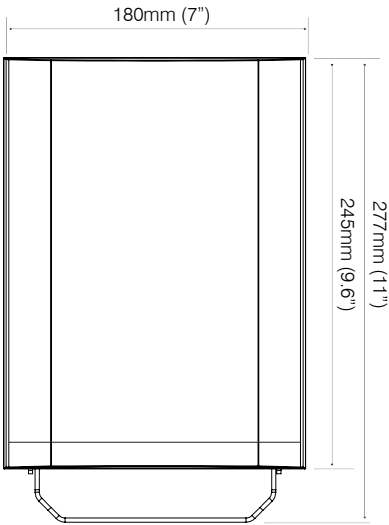
- High intensity - up to 1.0kW lighting drive power
- Easy camera integration
- Highly flexible and configurable
- 12V and 24V DC as standard
- Ethernet control
- Integrated pulse controller
- Long lifetime and low maintenance

PULSESTAR VTS Infra-Red illuminators deliver powerful pulsed lighting from a single, compact housing, for a wide range of transport applications. Examples include traffic and rail monitoring, ANPR/LPR, tolling, and many more.

Using high-power LED technology, VTS illuminators deliver up to 1.0kW of lighting drive power to provide outstanding illumination. A fully integrated GUI means the power, duration and frequency of the pulse can all be adjusted and tailored to each site.

With easy configuration and programming, a trigger input means the illuminator can be connected to a camera and synchronised with its shutter to deliver maximum light levels, exactly when needed. Long life and low maintenance, perfect for difficult to reach transport applications.

Product Dimensions



Features	Benefits
High Intensity Pulsed Illumination	Delivering up to 1.0kW of lighting drive power, PULSESTAR VTS illuminators deliver high quality pulsed illumination. Pulsed illumination ensures the highest levels of light on-scene to illuminate fast moving objects, and provides a significant uplift in performance compared to equivalent non-pulsed illuminators.
Integrated Pulse Controller	PULSESTAR VTS illuminators are packaged in a single, compact housing. The integrated pulse controller allows the timing, height and width of the lighting pulse to be tailored for the exact needs of the application. An ethernet-based communication interface and GUI makes installation, operation and maintenance both safer and easier.
Camera Sync	A trigger input allows the illumination to be pulsed in synchronisation with the camera shutter to deliver maximum light levels precisely when needed. The trigger output from the illuminator can be used to control the timing of the camera, or other illuminators.
Reduced Running Costs	When synced with a cameras shutter, VTS illuminators are only turned on for the duration of its 'pulse'; a fraction of the time when compared to a constant light solution. This means running costs can be significantly reduced.
Longer Life	PULSESTAR VTS illuminators can deliver a significantly longer lifetime when compared to a constant light illuminator. Pulsing an LED illuminator can increase the operational life of the LEDs (lifetime is governed by the average operating temperature of the LED, not the number of times it is switched on and off).
Choice of Wavelengths	The VTS illuminators are available in a range of wavelengths, including 850nm, White-Light, and others on request. A range of beam patterns are also available which allows VTS illuminators to be tailored towards a wide range of applications.

Technical Specifications

Illuminator

Model	VTS20
Lighting Drive Power (Pulsed)	850nm 1.0kW
Consumption (Average)	20W
Number of LEDs	80
Input	24V DC $\pm 10\%$ or 12V DC -1V/+2.7V
LED Type	Platinum Elite twin-core SMT LEDs
Illumination Angle	14° or 28 ° (other angles available on request)
Beam Shape	Circular
Maximum Pulse Width	2ms
Maximum Duty Cycle At 100% Intensity	2%
Trigger Input	5V to 24V opto-isolated
Trigger Output	Synchronised to strobing, (24V,20mA opto-isolated)
Control / Communication	Ethernet
Wavelength	850nm (others available on request)
IP Rating	IP66
Temperature Range	-20°C to +50°C
Colour	Black
Weight	2.7kg
Dimensions	180mm (w) 248mm (h) 75mm (d)
Bracketry	U bracket included
Front Cover	Clear Polycarbonate
Country of Manufacture	United Kingdom

Product Codes

Part Codes	Description
VTS20-850-14-ETH	VTS 20, 850nm with 14°x14° beam angles (Other wavelengths and beam angles available)
VTS20-850-28-ETH	VTS 20, 850nm with 28°x28° beam angles (Other wavelengths and beam angles available)