



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

PULSESTAR VTS 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.

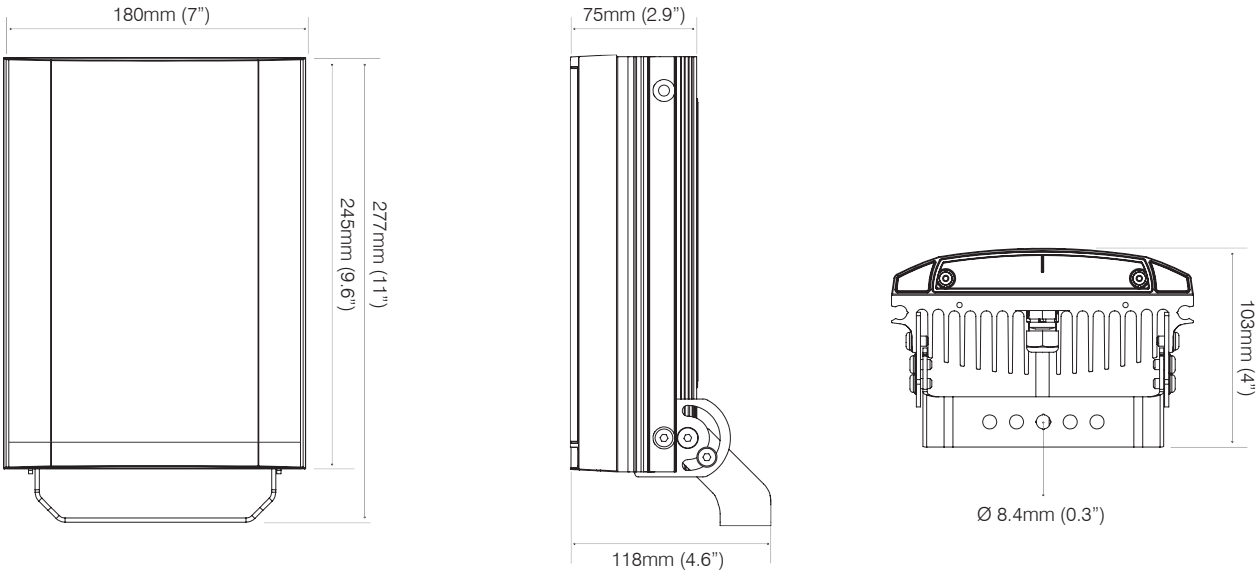
With easy configuration and programming, a trigger input means the illuminator can be connected to a camera and synchronised with its shutter to deliver maximum light levels, exactly when needed. Long life and low maintenance, perfect for difficult to reach transport applications.

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

Model	VTS20-850NM	VTS20-WL
Lighting Drive Power	1.0kW (Pulsed)	0.9kW (pulsed)
Consumption (Average)	20W	9W
Number of LEDs	80	80
Input	24V DC $\pm$ 5%	
LED Type	Platinum Elite twin-core SMT LEDs	Platinum Elite SMT LEDs
Illumination Angle	14°, 28° or 50°	12°, 28° or 50°
Beam Shape	Circular	
Maximum Pulse Width at 100% intensity	1ms	
Maximum Trigger Frequency	10kHz	
Maximum Duty Cycle at 100% Intensity	2%	1%
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)	White-Light
IP Rating	IP66	
Temperature Range	-20°C to +50°C (-4°F to +122°F)	
Colour	Black	
Weight	2.7kg (5.95lb)	
Dimensions	See dimensional sketches	
Front Cover	Clear Polycarbonate	
Bracketry	U bracket included	
Cable	2m pre-wired	
Warranty	1 Year	
Installation Instructions	Please see document 1140-D-00013 at Raytecltd.com	
Country of Manufacture	United Kingdom	

Product Dimensions



Product Codes

Part Codes	Description
VTS20-850-14-ETH	VTS 20, 850nm with 14°x14° beam angles
VTS20-850-28-ETH	VTS 20, 850nm with 28°x28° beam angles
VTS20-850-50-ETH	VTS 20, 850nm with 50°x50° beam angles
VTS20-W-12-ETH	VTS 20, WL with 12°x12° beam angles
VTS20-W-28-ETH	VTS 20, WL with 28°x28° beam angles
VTS20-W-50-ETH	VTS 20, WL with 50°x50° beam angles