

PULSESTAR PSTR White-Light High Intensity Pulsed Lighting for ANPR/LPR

rayTEC®



High-Intensity Pulsed Illumination

Delivers up to 440W of pulsed White-Light illumination. Pulsing ensures the highest levels of light on-scene to illuminate fast-moving objects while extending LED life and maximising energy savings.



Individual Illuminator Control System

Each LED panel can be controlled and operated individually via dedicated channels from the PSU, offering greater flexibility for multi-lane installations, mobile applications etc.



VARIO Interchangeable Lens System

Angle of illumination can be easily, quickly, and precisely adjusted by changing the VARIO holographic lens insert to match the specific camera field of view.



Hot-spot Reduction Technology (HRT)

The HRT system delivers a highly diffused, elliptical beam system to deliver more light where it's needed most. Also prevents overexposure of foreground subjects.



Integrated Pulse Controller

The in-built pulse controller allows the timing, height, and width of the lighting pulse to be tailored to each application. The ethernet-based communication interface allows easy installation and operation.



Camera Sync

A TTL trigger input allows the illumination to be pulsed in synchronisation with the camera shutter to deliver maximum light levels precisely when needed.

Technical Specifications

Illuminator

| Model | PSTR-w24 | PSTR-w32 | PSTR-w48 | PSTR-w72 | PSTR-w96 |
|--------------------------------|---|---|--|--|--|
| Lighting Drive Power (pulsed)* | 110W | 150W | 220W | 330W | 440W |
| Consumption | 11W | 15W | 22W | 33W | 44W |
| Number of LEDs | 24 | 32 | 48 | 72 | 96 |
| Input | Universal 100-230V AC (PSU included - details below) 24V DC options available - contact Raytec | | | | |
| LED type | Platinum Elite twin-core SMT LEDs | | | | |
| Illumination Angle | Standard pack includes 10°x10°, 20°x10° and 35°x10° lenses Other angles available on request | | | | |
| Beam Shape | Elliptical with HRT (Hot-Spot Reduction Technology) | | | | |
| Beam Angle System | VARIO Interchangeable Lens System | | | | |
| Typical Pulse Width | 2 ms | | | | |
| Trigger Input | TTL - 3.3 - 24V DC | | | | |
| 12V DC Power Output | 1A | | | | |
| Control / Communication | Ethernet | | | | |
| Wavelength | White-Light | | | | |
| IP Rating | IP66 | | | | |
| Temperature Range | -20° to +45°C (-4 to 113°F) | | | | |
| Colour | Silver | | | | |
| Weight | 1.65kg (3.6lbs) | 2.25kg (5 lbs) | 4.5kg (9.9lbs) | 6kg (13.2lbs) | 2 x 4.5kg (9.9lbs) |
| Dimensions | 135 x 180 x 68.2mm (5" x 7" x 2.6" approx.) | 209 x 178 x 111mm (8" x 7" x 4.3" approx.) | 279 x 223 x 111mm (11" x 9" x 4.3" approx.) | 423 x 225 x 142mm (17" x 9" x 5.6" approx.) | 2 off 279 x 223 x 111mm (11" x 9" x 4.3" approx.) |
| Bracketry | U bracket included | Adaptive Illumination mounting bracket included | | | 2 x Adaptive Illumination mounting brackets included |
| Cable Length | 2.5m per lamp | | | | |
| Country of Manufacture | United Kingdom | | | | |

External Power Supply (included)

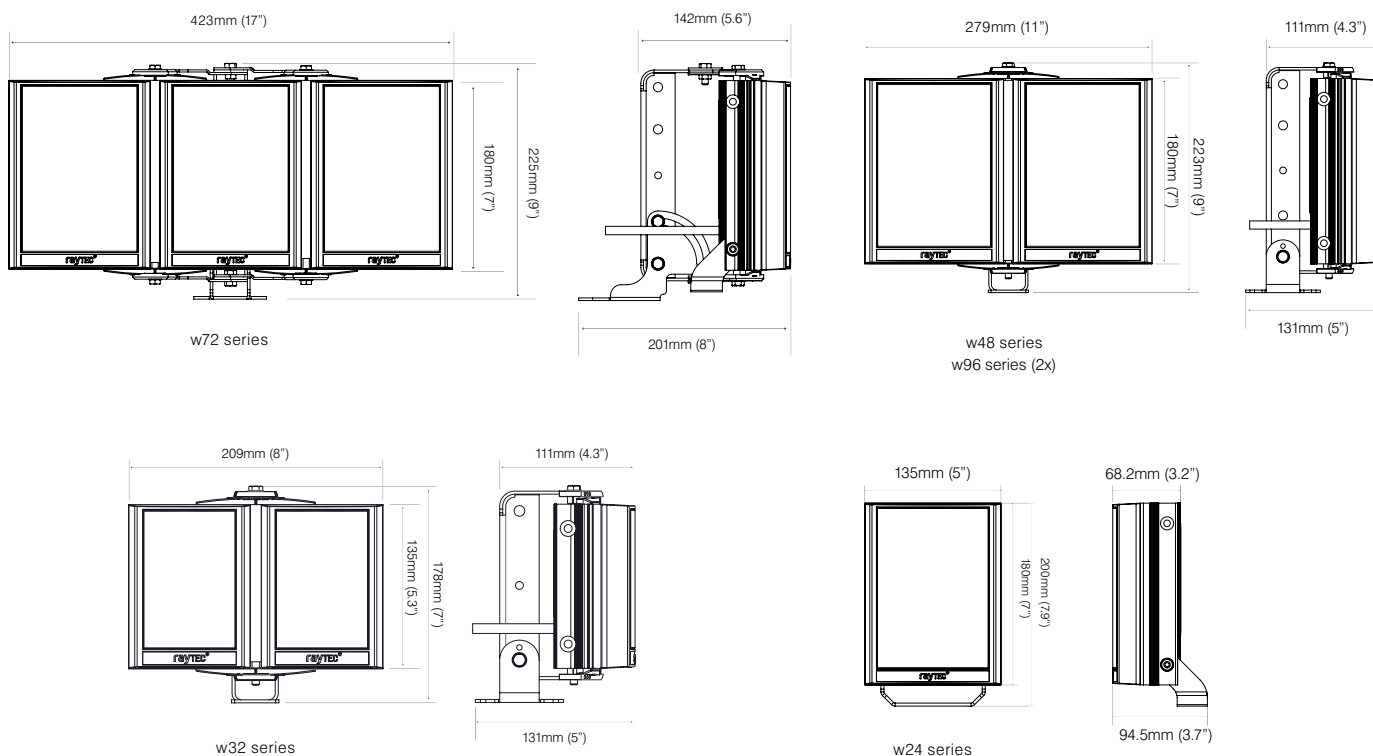
| | | | | | |
|------------|---|-----------------|----------------|----------------|----------------|
| Input | Universal 100-230V AC auto-sensing | | | | |
| Output | 13W | 17W | 25W | 37W | 49W |
| Weight | 1.7kg (3.75lbs) | 1.7kg (3.75lbs) | 2.0kg (4.4lbs) | 2.3kg (5.1lbs) | 2.3kg (5.1lbs) |
| Dimensions | 181 x 287 x 107mm (8" x 12" x 4" approx.) | | | | |

5 YEAR WARRANTY

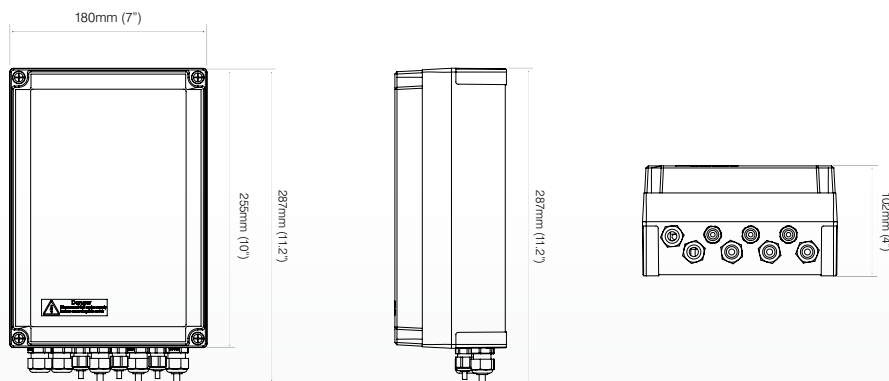
All Raytec luminaires are provided with an industry leading 5 year warranty and have an expected useful life in excess of 10 years



Product Dimensions



PULSESTAR Controller



Product Codes

| Part Codes | Description | Angles | Distances |
|-------------|--|---------|----------------|
| PSTR-w96-HV | PULSESTAR w96, White-Light, with 3 angle options included, 100-230V AC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w72-HV | PULSESTAR w72, White-Light, with 3 angle options included, 100-230V AC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w48-HV | PULSESTAR w48, White-Light, with 3 angle options included, 100-230V AC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w32-HV | PULSESTAR w32, White-Light, with 3 angle options included, 100-230V AC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w24-HV | PULSESTAR w24, White-Light, with 3 angle options included, 100-230V AC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w96-LV | PULSESTAR w96, White-Light, with 3 angle options included, 24V DC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w72-LV | PULSESTAR w72, White-Light, with 3 angle options included, 24V DC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w48-LV | PULSESTAR w48, White-Light, with 3 angle options included, 24V DC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w32-LV | PULSESTAR w32, White-Light, with 3 angle options included, 24V DC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |
| PSTR-w24-LV | PULSESTAR w24, White-Light, with 3 angle options included, 24V DC | 10°x10° | Contact Raytec |
| | | 20°x10° | Contact Raytec |
| | | 35°x10° | Contact Raytec |

Other angles are available - contact Raytec

* Distances are camera and set-up dependant

Disclaimer

The information provided in this document was accurate at the time of its creation. However, due to the evolving nature of our products and continuous improvements, there may be changes or updates that occur after its publication. For the most current and detailed information about our products, please contact our sales team at sales@rayteclcd.com.