PULSESTAR PSTR Infra-Red
High Intensity Pulsed Lighting for ANPR/LPR

rayTEC

i72 series

i48 series & i96 series (2x)

i32 series

i24 series

High-Intensity Pulsed Illumination

Delivers up to 980W of pulsed Infra-Red 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.
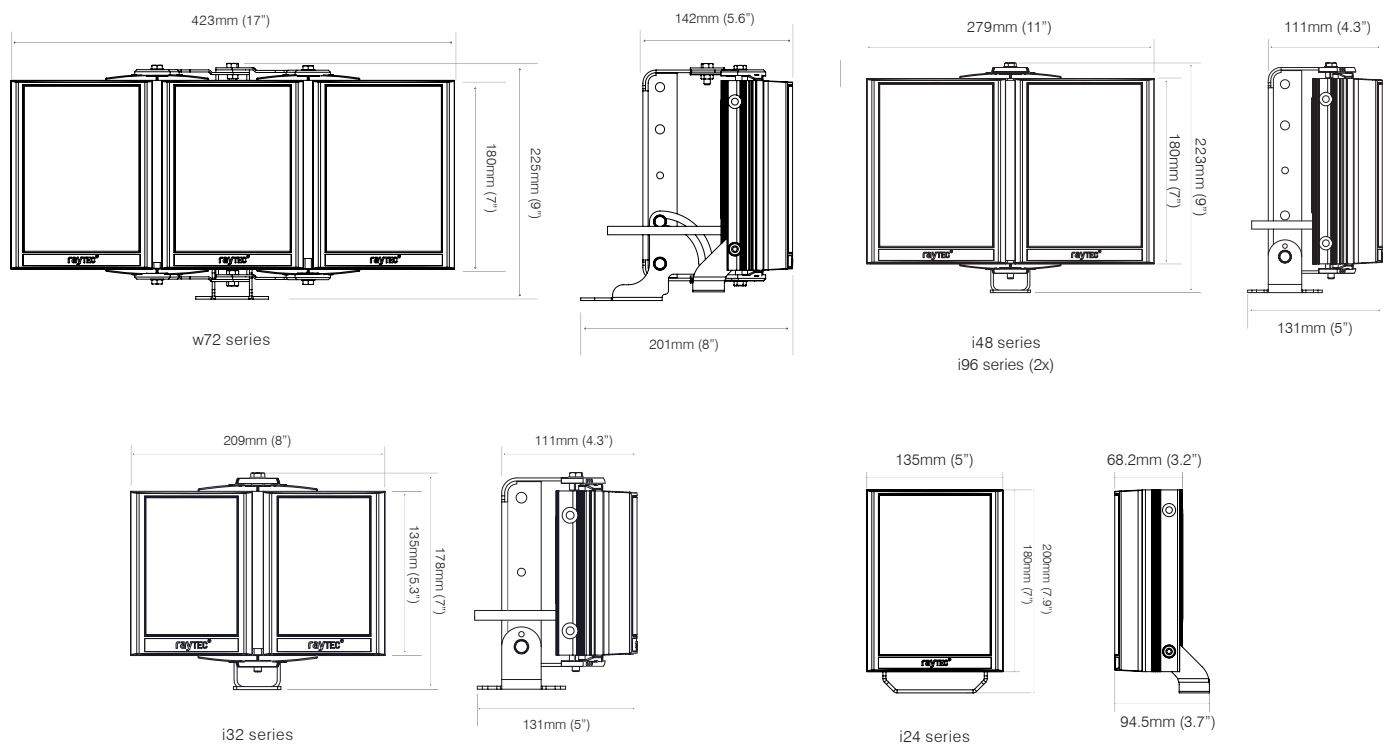
Integrated Pulse Controller

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.
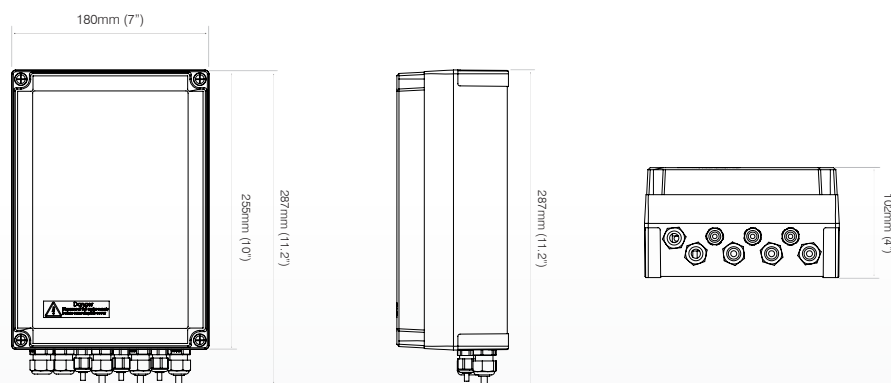
Camera Sync

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

Product Dimensions

423mm (17")

180mm (7")

225mm (9")

w72 series

142mm (5.6")

201mm (8")

279mm (11")

180mm (7")

223mm (9")

i48 series
i96 series (2x)

111mm (4.3")

131mm (5")

209mm (8")

135mm (5.3")

178mm (7")

i32 series

111mm (4.3")

131mm (5")

135mm (5")

200mm (7.9")

180mm (7")

i24 series

68.2mm (3.2")

94.5mm (3.7")

Pulsestar Controller

180mm (7")

255mm (10")

287mm (11.2")

287mm (11.2")

102mm (4")

1170-D-0005-2

Technical Specifications

Illuminator

Model	PSTR-i24	PSTR-i32	PSTR-i48	PSTR-i72	PSTR-i96
Lighting Drive Power (pulsed)*	260W	340W	500W	740W	980W
Consumption	13W	17W	25W	37W	49W
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	1 ms				
Trigger Input	TTL - 3.3 - 24V DC				
12V DC Power Output	1A				
Control / Communication	Ethernet				
Wavelength	850nm (940nm options available)				
IP Rating	IP66				
Temperature Range	-20° to +45°C (-4 to 113°F)				
Colour	Black				
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	Adaptive Illumination mounting bracket included	Adaptive Illumination mounting bracket included	2 x Adaptive Illumination mounting brackets included
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

5 YEAR WARRANTY

1170-D-0005-2

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Product Codes

Part Codes	Description	Angles	Distances
PSTR-i96-HV	PULSESTAR i96, 850nm, with 3 angle options included, 100-230V AC	10˚x10˚	50 -60m (164-197ft)
		20˚x10˚	30-34m (98-112ft)
		35˚x10˚	26-30m (85-98ft)
PSTR-i72-HV	PULSESTAR i72, 850nm, with 3 angle options included, 100-230V AC	10˚x10˚	43-50m (141-164ft)
		20˚x10˚	26-29m (85-95ft)
		35˚x10˚	22-26m (72-85ft)
PSTR-i48-HV	PULSESTAR i48, 850nm, with 3 angle options included, 100-230V AC	10˚x10˚	35-42m (115-138ft)
		20˚x10˚	21-24m (69-79ft)
		35˚x10˚	18-21m (59-69ft)
PSTR-i32-HV	PULSESTAR i32, 850nm, with 3 angle options included, 100-230V AC	10˚x10˚	30-35m (98-115ft)
		20˚x10˚	17-20m (55-65ft)
		35˚x10˚	15-17m (50-55ft)
PSTR-i24-HV	PULSESTAR i24, 850nm, with 3 angle options included, 100-230V AC	10˚x10˚	25-30m (82-98ft)
		20˚x10˚	15-17m (50-55ft)
		35˚x10˚	13-15m (43-50ft)
PSTR-i96-LV	PULSESTAR i96, 850nm, with 3 angle options included, 24V DC	10˚x10˚	50 -60m (164-197ft)
		20˚x10˚	30-34m (98-112ft)
		35˚x10˚	26-30m (85-98ft)
PSTR-i72-LV	PULSESTAR i72, 850nm, with 3 angle options included, 24V DC	10˚x10˚	43-50m (141-164ft)
		20˚x10˚	26-29m (85-95ft)
		35˚x10˚	22-26m (72-85ft)
PSTR-i48-LV	PULSESTAR i48, 850nm, with 3 angle options included, 24V DC	10˚x10˚	35-42m (115-138ft)
		20˚x10˚	21-24m (69-79ft)
		35˚x10˚	18-21m (59-69ft)
PSTR-i32-LV	PULSESTAR i32, 850nm, with 3 angle options included, 24V DC	10˚x10˚	30-35m (98-115ft)
		20˚x10˚	17-20m (55-65ft)
		35˚x10˚	15-17m (50-55ft)
PSTR-i24-LV	PULSESTAR i24, 850nm, with 3 angle options included, 24V DC	10˚x10˚	25-30m (82-98ft)
		20˚x10˚	15-17m (50-55ft)
		35˚x10˚	13-15m (43-50ft)

* Distances are camera and set-up dependant

940nm options and other angles are available - contact Raytec