

PULSAR 50R

Camera-Synced Pulsed Lighting



Infrared Light shown

FEATURES

- Light Pulse & Camera Shutter Sync
- White Light & Infrared Options
- Up to 10x Light Output
- Triggering Input Range (3.3-24 V)
- Built-In Pulse Generator & Controller
- Lifetime Warranty - Made in the USA

RANGE

WAVELENGTH	ANGLE	DISTANCE	HFOV
850nm (Infrared)	50° x 20°	68ft./21m	57ft./17m
	20° x 10°	143ft./43m	50ft./15m
	10°	177ft./53m	31ft./9m
940nm (Infrared)	50° x 20°	52ft./16m	44ft./13m
	20° x 10°	110ft./33m	38ft./12m
	10°	135ft./41m	23ft./7m
730nm (Deep Red)	50° x 20°	65ft./20m	54ft./16m
	20° x 10°	136ft./41m	47ft./14m
	10°	169ft./51m	29ft./9m
White (Temp. 6000K)	50° x 20°	65ft./20m	54ft./16m
	20° x 10°	136ft./41m	47ft./14m
	10°	169ft./51m	29ft./9m

LICENSE PLATES: Highly reflective license plate coatings will increase the lights range of illumination up to 3x.

Camera Synced Pulsed Light

PULSAR series lights provide pulsed lighting to seamlessly integrate with camera shutter via I/O ports (Input/Output ports). Pulsed lights deliver up to 10x more light output, which is required to track fast moving processes such as ANPR/LPR applications, and machine vision.

Full Light Pulse & Camera Shutter Synchronization

To sync pulsed lighting with a camera shutter, which controls exposure time, a triggering input from the camera is required. Various applications require different camera exposure times. Input from the camera can fully control the lighting pulse timing and frequency to match camera exposure times.

Lifetime Warranty - Made In The USA

All products are covered by a lifetime warranty. All AXTON lights are designed and manufactured in the USA.

SPECIFICATIONS

Wavelength Options	850nm IR, 940nm IR, 730nm or White
Angle	50°x 20° , 20°x 10° or 10°
Peak Power	50 Watts
Output Optical Pulse Duration	(0.1 – 2) ms
Repetition Rate	Single Shot - to 50 Hz
Triggering Input Range	3.3 - 24 V
Input Voltage	(24 - 36) VDC
Operating Temperature	-58°F...+140°F / -50°C...+60°C
Dimensions	4.25"x2"x4.25" / 108x51x108mm
Weight	1.25 lbs/ .56kg
Environmental	Outdoor IP67 Rated
Mounting	Pan/Tilt U-bracket

ANGLE OPTIONS



CAMERA & PULSED LIGHTING TIPS

PULSED LIGHTS- Fast shutter speed combined with high f-stop number will reduce available light for the camera by 5-10 times. Pulsed Lighting (white or infrared) synced with camera shutter, will emit light when the shutter is open, and shut-off when the shutter is closed. The camera and lighting is synced via I/O ports input.

CAMERA - To capture fast moving processes, set your camera's shutter speed (exposure time) at 1/1000 of a second or faster. Fast shutter speed allows less light into the camera, hence the additional lighting is necessary.



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