

PULSAR 20R

Camera-Synced Pulsed Lighting



Camera Synced Pulsed Infrared

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.

FEATURES

- Light Pulse & Camera Shutter Sync
- 850nm or 940nm Infrared
- Up to 10x Light Output
- Triggering Input Range (3.3-24 V)
- Built-In Pulse Generator & Controller
- Lifetime Warranty - Made in the USA

SPECIFICATIONS

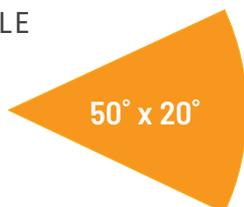
Wavelength Options	850nm or 940nm Infrared
Angle	50° x 20° (elliptical)
Peak Power	20 Watts
Output Optical Pulse Duration	(0.1 - 2) ms
Repetition Rate	Single Shot - to 50 Hz
Triggering Input Range	3.3 - 24 V
Input Voltage	(24 - 36) VDC
Operating Temperature	-58°F...+140°F / -50°C...+60°C
Dimensions	3.5" x 2.25" x 1.5" / 89 x 57 x 38mm
Weight	6 oz. / 170g
Environmental	IP 67 Outdoor Rated
Mounting	bracket included

RANGE

WAVELENGTH	ANGLE	DISTANCE	HFOV
850nm IR	50° x 20°	41ft/12m	34ft/10m
940nm IR	50° x 20°	32ft/10m	27ft/8m

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

ANGLE



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.

LENS - For the best picture quality a greater depth of field is required. To achieve the optimum depth of field, set lens aperture (iris) to a minimum of f/5.6. Increase the f-stop number as you increase the camera shutter speed. The lens will allow less light into the camera as you increase the f-stop number.

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