PULSAR 100R
Camera-Synced Pulsed Lighting

AXTON
ILLUMINATE THE NIGHT

Infrared Light shown

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.
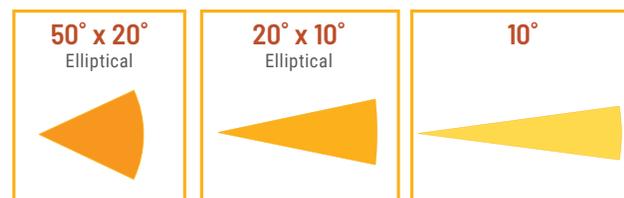
Lifetime Warranty - Made In The USA

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

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

SPECIFICATIONS

Wavelength Options	850nm IR, 940nm IR, 730nm or White
Angle	50˚x 20˚ , 20˚x 10˚ or 10˚
Peak Power	100 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	5.25” x 3” x 7.25”/ 133 x 76 x 184mm
Weight	3 lbs /1.3kg
Environmental	Outdoor IP67 Rated
Mounting	Pan/Tilt U-bracket

RANGE

WAVELENGTH	ANGLE	DISTANCE	HFOV
850nm (Infrared)	50˚ x 20˚	94ft./28m	79ft./24m
	20˚ x 10˚	197ft./60m	68ft./21m
	10˚	244ft./74m	42ft./13m
940nm (Infrared)	50˚ x 20˚	71ft./21m	60ft./18m
	20˚ x 10˚	149ft./45m	52ft./16m
	10˚	185ft./56m	32ft./10m
730nm (Deep Red)	50˚ x 20˚	87ft./26m	74ft./22m
	20˚ x 10˚	182ft./55m	63ft./19m
	10˚	226ft./68m	39ft./12m
White (Temp. 6000K)	50˚ x 20˚	87ft./26m	74ft./22m
	20˚ x 10˚	182ft./55m	63ft./19m
	10˚	226ft./68m	39ft./12m

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

ANGLE OPTIONS

50˚ x 20˚ Elliptical

20˚ x 10˚ Elliptical

10˚

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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