PRODUCT DATA SHEET

SXP30 Series | **STRUCTURED LIGHT** | Projector

product introduction

The SXP30 Series Projector Light offers the most intense projected pattern offered from an LED. The 9mm² die size emits 9x the intensity as a standard high output LED. The housing is constructed of finned 6061-T6 aluminum and designed to dissipate as much heat as possible therefore allowing the LED to be run at a much higher current than the standard 1mm² die LED's. Multiple interchangeable pattern styles are available along with optional custom patterns. The SXP30 Series is able to project a thinner and more define pattern of light compared to laser projectors making the SXP30 a more accurate light.

product features

Lens sold separately.

- 5 Pin M12 Quick Disconnect
- Multiple Interchangeable Patterns
- Driver Built In – No External Wiring To A Driver
- PNP and NPN Strobe Input
- Continuous Operation or Strobe Mode
- Analog Intensity 0-10VDC Signal
- One, 9mm² Die High Current LED

product specifications

Electrical Input	24 VDC +/- 5%
Current	Max. 600mA
Wattage	Max. 15W
Strobe Input	PNP ► +3VDC or greater to activate. | NPN ► GND (<1VDC) to activate
PNP Line	3.7mA @ 3VDC | 6.2mA @ 5VDC | 12.6mA @ 10VDC | 30.4mA @ 24 VDC
NPN Line	22mA @ Common (0VDC)
Yellow Indicator LED	LED Strobe Indicator ON = Light Active
Green Indicator LED	ON = Power
Continuous Mode	Light will be in continuous mode by leaving signal on strobe input active
Analog Intensity	The output is adjustable from 10 -100% of brightness by a 0 -10 VDC signal
Connection	5 pin M12 connector
Lifespan	100,000 hrs
Ambient Temp.	-20º - 50º C (-4º - 122º F)
IP Rating	IP50
Weight	~413g
Compliances	CE and RoHS
IEC 62471 Rating	See page 4

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product number key

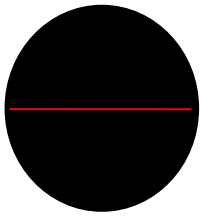
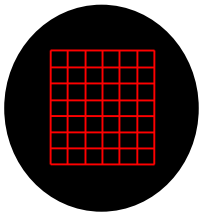
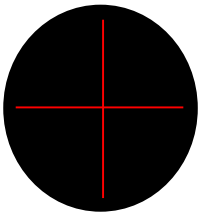
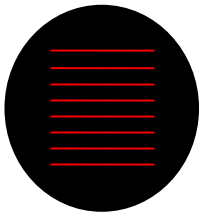
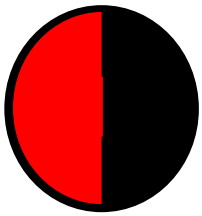
SXP30 – XXX —» Part Number Key

Product Family:
Projector Light
SXP30

Color:
470 – Blue
530 – Green
625 – Red
850 – IR
WHI - White

CE and RoHS Compliant

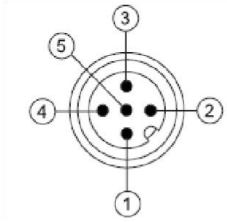
Standard patterns are available and custom patterns can be etched. Patterns are interchangeable.

Line	Grid	Cross	Multiple Line	Half Sphere
				
SP-PO-1LN	SP-PO-8x8GRID	SP-PO-CH	SP-PO-8LN	SP-PO-HS

warnings

Attention
Please note that the power requirements are 600mA at 24VDC. Failure to supply light with 600mA will result in non-repeatable lighting. Contact Smart Vision Lights for more information.

wiring configuration



Pin	Function	Signal	Wire Color
1	Power In	+24VDC	BROWN
2	NPN	Sinking Signal	WHITE
3	GND	Ground	BLUE
4	PNP	Sourcing Signal	BLACK
5	Intensity Control	0-10VDC	GREY [1]

[1] If 0-10VDC is not used to control light intensity; +24VDC (24VDC) must be connected to Analog Input.

[1] Some cables use green with yellow stripe for 0-10V adjustment

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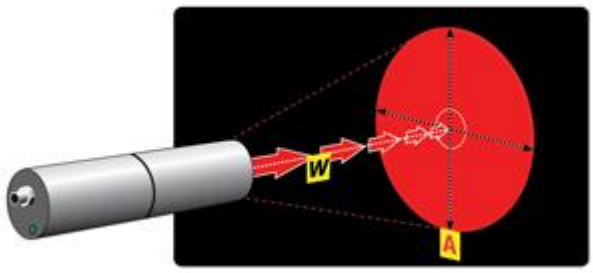
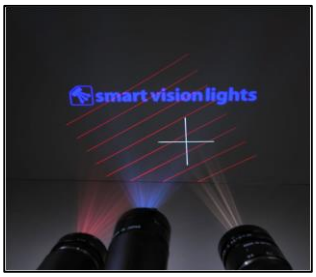
optical performance

W = Working Distance

A = Diameter of Area

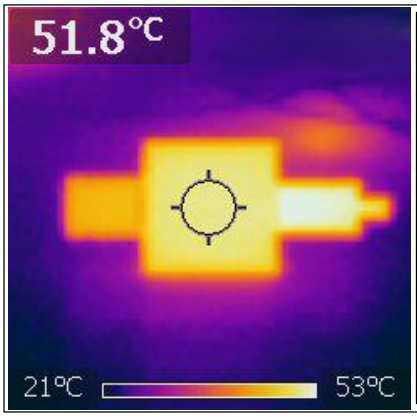
	100mm	150mm	200mm	300mm	400mm	500mm	600mm	750mm	1000mm	1500mm	2000mm
60mm			25			50					
100mm	8	12	16	25	35	35	50	50			
150mm	6	8	12	16	25	25	35	35	50	75	
200mm		6	8	12	16	16	25	25	35	50	100
300mm			6	8	12	12	16	16	25	35	50
400mm				6	8	8	12	12	16	25	35
500mm					6		8	12	16	25	25
	Number in box represents the focal length of lens (example - 6 is a 6mm focal length lens)										





thermal analysis

In constant operation the housing on SXP30 series lights will run at 50 Cº in an ambient temperature of 25 Cº.



Lens sold separately.

SXP30 series aluminum enclosures designed to transfer heat away from the high power LED.

Additional heat sinking recommended in ambient air temperatures above 25˚C.

Thermal image taken after 2 hours of continuous ON operation at 25˚C.

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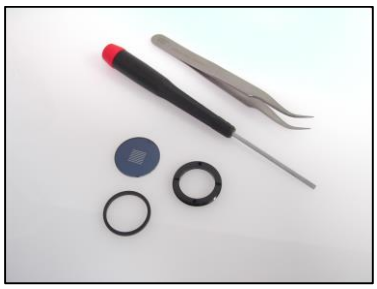
pattern replacement



Tools: small screwdriver or tweezers

Pattern **Retaining Ring**

Retainer Ring

Pattern

Removal of Retaining Ring

Screwdriver or Tweezers to remove retaining ring. Retaining Ring will turn Clockwise to install and Counter-Clockwise to remove. There are 2 small holes and 2 slots in ring to install/remove.

Arrangement of Retainer Ring and Pattern.

Retainer Ring on top holding pattern.

Pattern - Remove and Replace

Master Retainer Ring located in base of Projector. DO NOT REMOVE!

risk group

According to IEC 62471:2006. Full documentation upon request.

Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use.
Applicable for wavelengths: 625 and 850.

Caution

Risk Group 1: Possibly hazardous optical radiation emitted from this product. Do not stare at operating lamp. May be harmful to eye. Safe for most applications except prolonged exposures.
Applicable for wavelengths: 470, 530, and WHI.

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