

SX-7 Starsun

www.spectrolab.com

Product Highlights

High Intensity Searchlight System



Key Specifications & Characteristics:

- 30 Million Candlepower Peak Beam Intensity, typical
 - 25 Million Candlepower, minimum
- 700 Watt Xenon Short Arc Lamp (
- 3,280 ft (1 km) Typical Range
- 30 Lux (2.8 ft-cd) Peak Illuminance @ 1 km
- Beam Width = 2° to 10° w/bi-directional focus
- Diameter of Beam at 10% Peak Illuminance =
 - 143 ft (44m) wide @ 1,640 ft (500 m)
- Azimuth Rotation 345° Maximum
- Elevation Range: +15° to -90° (± 1°)
- Slew Rate 18° in Azimuth and Elevation

Applications

Air, Land, and Maritime applications in Law Enforcement, Fire, SAR, and EMS operations requiring best in class support, reliability, and long range illumination.

System Description:

The SX-7 Starsun Searchlight system provides a light weight, smaller envelope option for installations that may be limited by weight restrictions. It is one of our newer offerings and is enjoying success with departments that enjoy the light output of the SX-16, but need to have the smaller size of the SX-5. This system runs at 700 watts thus providing a higher light output. High Speed Gimbal Motors are standard on the Gimbal achieving 18° per second slew rate. SX-7 Starsun has the ability to look straight down thus opening up the angle of view and making this system a great choice if that is your requirement.

SX-7 Starsun

Illumination Specifications

Lamp Type	700 Watt Xenon Gas Arc Lamp
Peak Candle Power	30,000,000 (MCD)
Nominal Candle Power	25,000,000 (MCD)
Lux	30 Lux (3.7 ft.-cd) Peak Illuminance @ 1 km
Lumens	40,000
Beam Diameter 10% Peak Illuminance	143 ft. wide @ 1,640 ft. 44 m wide @ .5 km
Focus Range	Variable 42 to 10° (Beam Width)
Typical Useful Range	3,280 ft., 1 km

Electrical / Interface Specifications

Input Voltage	28 Volts DC, Nominal
Input Current	35-50 Amperes < 1.5 Amperes in standby
System Control Interface	<ul style="list-style-type: none"> • System Aux On/Off <ul style="list-style-type: none"> • Cooling • Directional Control • Lamp on/off • Two-way focus (zoom +/-) • Variable Slew Rate via pressure sensitive joystick
Start Time	3 – 5 seconds
Slew Rate	Variable Standard = 9° per sec max High Speed = 18°/sec max

Mechanical Characteristics

Searchlight & Gimbal Weight	19.2 lbs. (8.7 kg)
Junction Box Weight	6.3 lbs. (2.9 kg)
Control Box Weight	.60 lbs.. (.27 kg)
Cable Set Weight	10 – 25 lbs. (4.5 – 11.33 kg)
System Weight	35 lbs. (15.87 kg)

Envelope Specifications

Searchlight & Gimbal Assy.

Min Height	14.62" (146 mm)
Max Height (90° look down)	15.80" (158 mm)
Max Depth	10.38" (103 mm)
Max Width	12.12" (121 mm)
Azimuth Rotation Diameter	12.84" (128 mm)

Junction Box Assy.

Height	5.07" (50.7 mm)
Depth	7.8" (71.8 mm)
Width	6.8" (61.8 mm)

Control Box Assy.

Height	5.2" (52 mm)
Depth	1.8" (18 mm)
Width	2.3" (23 mm)

Reference Documents

Document Title	Document Number
System Cabling Diagram	034625 034629
Envelope Drawings	034610 034607-OEM 030039-32-OEM 030039-33-OEM
Operation Manual	034626
Schematics	034594 034595

