

SX-16 Nightsun®

www.spectrolab.com

Product Highlights

The One that Started it All

Key Specifications & Characteristics:

- 40 Million Candlepower Peak Beam Intensity, typical
 - 30 Million Candlepower, minimum
- 60,000 Lumens Lamp Output
- 4° to 20° Focus Range (Beam Width)
- 3,280 ft. (1 km) Typical Range
- 32 Lux (2.9 ft-cd) Peak Illuminance @ 1 km
- Useful Range for Target ID – 1 mile (1.6km)
- Diameter of Beam at 10% Peak Illuminance
 - 230 ft. (70m) wide @ .6 mile (1 km)
- Operating Temperature Range: -40 °C to +70 °C
- Slew Rate 9° in Azimuth and Elevation
 - 18° High Speed Motors optional
- RTCA/DO-160 and MIL-STD-461C Compliant



Applications

SX-16 Nightsun® Searchlight. The original and still the best. When your mission requires night be made into day, the Nightsun® is the solution.

System Description:

The SX-16 Nightsun® Searchlight is recognized as the standard for mobile high intensity Searchlight and has been for many years. The 1600 Watt Xenon Lamp provides the highest light output on target than any other Searchlight on the market. It has been used for Police, Public Safety and SAR for close to 50 years.

Multiple configurations exist for the Nightsun® including Gold Reflector, High Speed Motors, ¼" or 5/16" mounting bolt holes, and also linking to the majority of camera systems via SpectroLink Integration Box.

preliminary

SX-16 Nightsun®

Envelope



Mechanical Configuration: Gimbal

Type	<ul style="list-style-type: none"> • Two Axis Remote Controlled
Weight	<ul style="list-style-type: none"> • 9 lbs. (4.1 kg) Aluminum • 15 lbs. (6.8 kg) Steel
Slew Rate	<ul style="list-style-type: none"> • Standard = 9%/second • High Speed = 18%/second

Mechanical Configuration: Junction Box

Dimensions	<ul style="list-style-type: none"> • 8.62" L x 6" W x 5.20" H (21.6cm x 15.9cm x 12.95cm)
Weight	<ul style="list-style-type: none"> • 7 lbs. (3.2 kg)

Mechanical Configuration: Control Box

Dimension	<ul style="list-style-type: none"> 5" L x 2.25" W x 1.75" H (12.7cm x 5.7cm x 4.4cm)
Weight	<ul style="list-style-type: none"> 6 ounces (170 grams)

Electrical System

Input Voltage	28 Volts DC, Nominal
Input Current	55-62 Amperes
Start Time	3-5 Second, typical
Recycle Time	None Required

Total System Weight

Total System Weight	55-70 lbs. (25-31kg)
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Mechanical Configuration: Searchlight

Dimensions	Cylindrical 11" O.D x 18" Long (28 x 46 cm)
Weight	25.7 lbs. (11.6 kg)
Cooling Provisions	Internal Vane axial Blower with filtered air intake
Operating Temperature	-40 °C to +70 °C



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