

# Spectrolab

Illumination Systems

www.spectrolab.com

## SX-16 Nightsun<sup>®</sup> Enhanced

### Illumination Characteristics

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 50 Million (nominal)  
(in Candlepower) 40 Million (minimum)
- Beam Width: 4°-20° Bi-directional focus

### Application Information

- Typical Range: 3200 ft (1km)
- Useful Range For Target ID: 1 Mile (1.6km)
- Peak Illuminance @ 1km: 32 Lux (2.9 ft-cd)
- Diameter at 10% of Peak Illuminance: 230ft(70m) @ .6 mile(1km)

### Electrical System

- Input Voltage: 28 Volts DC Nominal
- Input Current: 55-62 Amperes
- Start Time: 3-5 Seconds Typical
- Recycle Time: None Required
- Searchlight power requirements are compatible with standard aircraft type DC generators. Searchlight may be operated from batteries or ground power unit.
- New brushless Cooling Blower, Hobbs hour-meter and bi-directional focus have been added to enhance Nightsun<sup>®</sup> Family of searchlights.

### Mechanical Configuration Searchlight

- Dimensions: Cylindrical 11"(280mm)O.D. x 18 in (460mm) Long
- Weight: 26.6 lbs (12 kg)
- Cooling Provisions: Brushless cooling fan with filtered air intake
- Lamp: Max. life expectancy 1000 hours; Typical 2 years
- Operating Temperature Range: -40° to +70° C



### Mechanical Configuration Junction Box

- Dimensions: 8.62"L x 6" W x 5.20" H  
(219mm x 152.4mm x 132mm)
- Weight: 7 lbs (3.2kg)

### Mechanical Configuration Gimbal (Standard or High Air Speed)

- Type: Two-Axis Remote Electrical Control
- Weight: 9 lbs (4.1kg) Aluminum or 15 lbs (6.8kg) Steel
- Slew Rate: Standard = 9° per second  
High Speed = 18° per second

### Mechanical Configuration Control Box

- Dimensions: 5" L x 2.25" W x 1.75" H  
(127mm x 57mm x 44mm)
- Weight: 13 ounces (363 gm)

### Total System Weight

- Typical, with installation hardware and cable assemblies, 55-70 lbs (25-31 kg)

The information contained on this sheet is for reference only. Specifications subject to change without notice. REV 01/10

**ISO9001:2000**  
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