

# Spectrolab

Illumination Systems

www.spectrolab.com

## SX-16 Nightsun<sup>®</sup> E/P Patrol Aircraft Searchlight

### Illumination Characteristics

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 80-100 Million candlepower
- Beam Width: 1-10° (remote control focus)

### Application Information

- Typical Range: 1-2.5 miles (2-4km)
- Peak Illuminance:
  - 80 lux at 3,280 ft (1 km)
  - 20 lux at 6,561 ft (2 km)
  - 5 lux at 13,123 ft (4 km)
- Diameter at 10% of Peak Illuminance:
  - 115 ft (35m) at 3,280 ft (1 km)
  - 229 ft (70m) at 6,561 ft (2 km)
  - 459 ft (140m) at 13,123 ft (4 km)
- Adaptable to pod configured, fixed-wing aircraft.
- Available with or without front window assembly.

### Electrical System

- Input Voltage: 28 Volts DC Nominal
- Input Current: 55-67 Amperes
- Start Time: 3-5 Seconds
- Recycle Time: None Required
- Searchlight power requirements are compatible with standard aircraft type DC generators.

### Mechanical Configuration: Gimbal

- Type: 2-Axis Remote Control
- Weight: 15 lbs. (6.8kg)
- Slew Rate: Standard = 9° per second  
High Speed=18° per second

### Total System Weight

- Total system weight (typical) with installation hardware, cable assemblies: 65 to 70 lbs. (29.5-31.7kg)



### Mechanical Configuration: Junction Box

- Dimensions: 10.5"L x 6.25" W x 5.5" H  
(26.7 x 15.9 x 14 cm)
- Weight: 7 lbs (3.2kg)

### Mechanical Configuration: Control Box

- Dimensions: 5" L x 2.25" W x 1.75" H  
(12.7 x 5.7 x 4.4 cm)
- Weight: 6 Ounces (170 gm)

### Mechanical Configuration: Searchlight

- Dimensions: Tapered cylinder: 15" O.D. x 16" L  
(38.1 x 40.7 cm)
- Weight: 28 lbs (13kg)
- Cooling Provisions: Internal cooling fan with filtered air intake
- Lamp: 400-500 Operational Hrs.

The information contained on this sheet is for reference only. Specifications subject to change without notice. REV 04/09

**ISO9001:2000**  
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