

# Spectrolab

Illumination Systems

www.spectrolab.com

## SX-16 Nightsun®

### Illumination Characteristics

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 30-40 Million candlepower
- Beam Width: 4-20°(remote control 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: 230 ft (70m) @ .6m (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.

### Mechanical Configuration: Searchlight

- Dimensions: Cylindrical 11 in (280mm) O.D. x 18 in (460mm) Long
- Weight: 25.7 lbs (11.6 kg)
- Cooling Provisions: Internal cooling fan with filtered air intake
- Lamp: Max. life expectancy 1000 hrs., 2 years operation
- Operating Temperature Range: -40°C to +70°C

### Total System Weight

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



### 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 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: 6 Ounces (170 grams)

The information contained on this sheet is for reference only. Specifications subject to change without notice. REV 02/10

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