

Spectrolab

Illumination Systems

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SX-16 Nightsun[®] With Infrared In-Flight Changeover

Illumination Characteristics

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 30 Million candlepower (white light mode)
- Beam Width: 4-20° (remote control focus)

Application Information

- Typical Range: 1km (3200 ft)
- Useful Range
- For Target ID: 1 Mile (white light and infrared mode)
- Peak Illuminance: 32 Lux (2.9 ft-cd) (at 1km Distance)
- Diameter at 10% of Peak Illuminance: 70m (230 ft at 1km)
- Adaptable to helicopters, airplanes, ships, ground vehicles for covert surveillance using NVG. Changeable from white light to infrared and back while in flight.

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. Control box has additional switch to activate IR function and display which indicates position of IR filter.

Mechanical Configuration: Searchlight

- Dimensions: Stepped cylinder, overall length 546mm (21.5"), with IR filter in open/up position 680mm (26.75")
- Weight: 17.3 kg (38 lbs.)
- Cooling Provisions: Internal cooling fan with filtered air intake
- Lamp: Max. life expectancy is 1000 hrs. 2 years operation



Mechanical Configuration: Junction Box

- Dimensions: 267 mm x 159 mm x 140 mm (10.5" L x 6.25" W x 5.5" H)
- Weight: 3.2 kg (7 lbs.)

Mechanical Configuration: Gimbal

- Type: Two-Axis Remote Electrical Control
- Weight: 4.1 kg (9 lbs.)
- Slew Rate: 9°/s standard. Others Available.

Mechanical Configuration: Control Box

- Dimensions: 127 mm x 57 mm x 44 mm (5" L x 2.25" W x 1.75" H)
- Weight: 6 Ounces

Total System Weight

- Typical with installation, hardware, cable assemblies, 26-36 kg (58-78 lbs.)

ISO9001:2000
REGISTERED

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

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