

Spectrolab

Illumination Systems

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SX-16P 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: 2-4km (1-2.5 miles)
- Peak Illuminance: 80 lux at 1000 meters
20 lux at 2000 meters
5 lux at 4000 meters
- Diameter at 10% of Peak Illuminance:
35m at 1000 meters
70m at 2000 meters
140m at 4000 meters
- Adaptable to pod configured, fixed-wing aircraft. For example: DeHavilland Twin Otter Fokker F-27,
- Bandierante, S-2 Tracker.

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: Searchlight

- Dimensions: Tapered cylinder, 381mm (15" O.D.) x 407mm (16" long)
- Weight: 13kg (28 lbs.)
- Cooling Provisions: Internal cooling fan with filtered air intake
- Lamp: Max. life expectancy 1000 hrs.
2 years operation



Mechanical Configuration: Junction Box

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

Mechanical Configuration: Gimbal

- Type: Two-Axis Remote Electrical Control
- Weight: 6.8kg (15 lbs.)
- Slew Rate: 9° per second, standard.

Mechanical Configuration: Control Box

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

Total System Weight

- Total stem weight (typical) with installation hardware, cable assemblies, 29.5-31.7kg (65-70 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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