

Spectrolab

Illumination Systems

www.spectrolab.com

SX-16 Nightsun® IFCO (In-Flight Change Over) w/Infrared Filter

Illumination Characteristics:

- Lamp Type: 1600 Watt Short Arc Xenon
- Peak Beam Intensity: 30-40 Million candlepower (white light mode)
- Beam Width: 4°-20° (remote control focus)

Application Information:

- Typical Range: 3280 ft (1 km)
- Useful Range For Target ID: 1 Mile (white light & ir mode)
- Peak Illuminance: 32 Lux (2.9 ft-cd) @ 1 km Distance
- Diameter at 10% of Peak Illuminance: 230 ft (70 m) wide @ 3280 ft (1 km)
- Adaptable to helicopters, fixed-wing aircraft, maritime, and ground based applications for covert surveillance using Night Vision equipment.
- Interchange from White Light to Infrared in-flight dependent on mission and operational requirements.

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 IFCO function, which provides a status display when hood is fully engaged.

Mechanical Configuration: Gimbal

- Type: 2-Axis Remote Control
- Weight: 9 lbs. (4.1 kg) Aluminum
15 lbs (6.8 kg) Steel
- Slew Rate: Standard=9° per second
High Speed=18° per second
- Max. Airspeed: 162 kts (Aluminum)
259 kts (Steel)



Mechanical Configuration: Searchlight

- Dimensions: 20.6" (523 mm) - closed position
19.5" (495 mm) - open/up position
- Weight: 38 lbs (17.3 kg)
- Cooling Provisions: Internal cooling fan with filtered air intake

Mechanical Configuration: Junction Box

- Dimensions: 8.5" L x 6.25" W x 5.1" H
(21.6 x 15.9 x 12.95 cm)
- Weight: 7 lbs (3.2 kg)

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)

Total System Weight:

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

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

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