SPECTROLAB PROPRIETARY

Product Highlights

In Flight Change Over to Infrared

Key Specifications & Characteristics:

- White light to Filtered Light in flight
- 50 Million Candlepower Peak Beam Intensity, typical
  - 40 Million Candlepower, minimum
- 60,000 Lumens Lamp Output
- 3,280 ft. (1 km) Typical Range
- 32 Lux (2.9 ft-cd) Peak Illuminance
- 1 Mile Useful Range for Target ID
- Beam Width: 4° to 20° w/bi-directional focus
- Diameter of Beam at 10% Peak Illuminance
  - 230 ft. (70m) wide @ 3,280 ft. (1km)
- Brushless Cooling Blower
- Enhanced Coating on Reflector

Applications

Infrared capable variant of our SX-16 Nightsun® Searchlight that has been installed on multiple role aircraft that may require either white light or infrared light on target.

System Description:

The Enhanced configuration of our SX-16 Nightsun® IFCO Searchlight has several upgrades from our standard IFCO Searchlight. We now offer an Enhanced Reflector Coating that garners 20% more light output than previous models. We offer bi-directional focusing mechanism that can be stopped at any point in the cycle. A brushless Cooling Blower rated for 10,000 hours is also standard on this model. The Enhanced IFCO also has a Hobbs Hour-meter for Lamp On tracking. The Control Box now has a separate Lamp Off switch so that the Lamp can further be cooled after use. Gimbal Assembly on the Enhanced is now a one piece configuration that is an “on condition” Arm and is not Service Life Limited.

preliminary

Tel: (818) 365-4611  www.spectrolab.com  Toll Free: (800) 936 4888
**Envelopes**

**Input Voltage** 28 Volts DC, Nominal  
**Input Current** 57-65 Amperes  
**Start Time** 3-5 Seconds

**Electrical System**

**Input Voltage** 28 Volts DC, Nominal  
**Input Current** 57-65 Amperes  
**Start Time** 3-5 Seconds

**Mechanical Configuration: Searchlight**

- **Dimensions**
  - 20.6" (523mm) – closed position  
  - 19.5" (495mm) – open/up position

- **Weight**
  - 38 lbs. (17.3kg)

- **Cooling Provisions**
  - Internal, brushless cooling fan with filtered air intake

- **Lamp**
  - Max. Life expectancy 1000 hours, typical

**Mechanical Configuration: Gimbal**

- **Type** 2 Axis Remote Controlled
- **Weight**
  - 9 lbs. (4.1 kg) Aluminum  
  - 15 lbs. (6.8 kg) Steel
- **Slew Rate**
  - Standard = 9° per second  
  - High Speed = 18° p/sec
- **Max Airspeed**
  - 162 knots (Alum) 259 (Steel)

**Mechanical Configuration: Junction Box**

- **Dimensions**
  - 8.5”Lx6.25”Wx5.1”H (21.6cm x 15.9cm x 12.95cm)

**Mechanical Configuration: Control Box**

- **Dimensions**
  - 5”L x 2.25”W x 1.75”H (12.7cm x 5.7cm x 4.4cm)
- **Weight**
  - 13 Ounces (363 grams)

**Total System Weight**

- **Total System Weight** 58-78 lbs. (26-36 kg)

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The information contained on this sheet is for reference only. Specifications subject to change without notice. (REV. 06/17)