

Spectrolab

Illumination Systems

www.spectrolab.com

Nightsun® II

Illumination Characteristics:

- Lamp Type: 1300 Watt xenon short-arc
- Peak Beam Intensity: 30 million candlepower
- Beam Width: 4 - 20°
- Focus Control: Bi-directional remote control

Application Information:

- Typical Range: 3300 ft (1 km)
- Target ID Range: 1 Mile (1.6 km)
- Peak Illuminance: 32 Lux (2.9 ft-cd) @ 1km
- Diameter at 10% of Peak Illuminance:
230 ft @ 3300 ft (70 m @ 1 km)
- Azimuth Rotation: 360° continuous
- Elevation Range: +12° to -72° (+/- 3°)
- Elevation/Azimuth Slew Rate: 0 - 60° per second
- **Slave-ready for thermal imaging systems using the RS422 interface ***

Electrical Requirements:

- Input Voltage: 28 Volts nominal (26.5-29.0 VDC)
- Input Current: 65 Amps nominal (75 Amps max.)
- Start Time: Less than 1 second typical
- Recycle Time: None Required
- **Searchlight power requirements are compatible with most standard aircraft type DC generators. For fixed-wing applications, accessory power converters are available for operation from other primary power sources.**

Options / Accessories:

- Cyclic or Collective Controller kits
- Dual or Parallel Controller kits
- Sidecar adapters to fit many Wescam and FSI Hand Controllers
- Infrared version available February 2004
- Interface Translator kits - provide slaving communication to non-RS422 thermal imaging systems*

ISO9001:2000
REGISTERED

Reference Information only. Manufacturer reserves the right to change specifications without notice. 07/09/03



Mechanical Characteristics:

Searchlight / Gimbal:

- Maximum Height: 23.9" (60 cm)
- Minimum Height: 19.4" (50 cm)
- Maximum Width: 22.0" (56 cm)
- Minimum Width: 12.0" (30 cm)
- Maximum Weight: 54lbs. (24.5 kg)

Junction Box:

- Dimensions: 6"W x 7"L x 5"D (15.2x17.8x12.7 cm)
- Weight: 6.1 lbs. (2.8 kg)

Hand Controller:

- Dimensions: 4"W x 9"L x 4"D (10.2x22.9x10.2 cm)
- Weight: 1.5 lbs. (68 kg)

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*Some thermal imaging systems may require additional components for communication on the standard RS422 Bus. Please ask your Sales Representative for assistance.