

Spectrolab

Illumination Systems

www.spectrolab.com

Nightsun[®] XP Searchlight

Illumination Characteristics:

- Lamp Type: 1600 Watt Xenon Short-Arc
- Peak Beam Intensity: 30-40 million candlepower
- Beam Width: 4° (narrow) to 20° (wide)
- 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: 344°
- Elevation Range: 14° to -74° (+/- 1°)
- Elevation Slew Rate: 0-90°/sec (Programmable)
- Azimuth Slew Rate: 0-90°/sec (Programmable)
- Link-ready for thermal imaging systems using RS232 and RS422 interfaces

Electrical Requirements:

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

Mechanical Characteristics:

Junction Box:

- Dimensions: 6"Wx7"Lx5"D (15.2x17.8x12.7 cm)
- Component Weight: 6.1 lbs (2.8 kg)



Mechanical Characteristics: (continued)

Hand Controller:

- Dimensions: 4"Wx9"Lx4"D (10.2x22.9x10.2 cm)
- Component Weight: 1.5 lbs (0.7 kg)

Searchlight / Gimbal:

- Maximum Height: 24.4" (61.9 cm) - Lookdown
- Minimum Height: 19.7" (50 cm) - Horizontal
- Gimbal Diameter: 12.2" (30.9 cm)
- Searchlight/Gimbal Weight: 55 lbs. (24.9 kg)
- Cable Weight: 10-25 lbs. (Based on Cable lengths)
- Adjustable Hard Stops in Azimuth and Elevation
- AZ = 24 adjustable positions (15° increments)
- EL = 10 adjustable positions (6.5° increments)

Options / Accessories:

- Input/Output Kit for dual control capability
- Sidecar Control Box offers independent use or can be secured to most imaging system Hand Controllers

The information contained on this sheet is for reference only. Specifications subject to change without notice. (REV. 02/10)

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