

Nightsun[®] XP IR LED Searchlight System



Illumination Characteristics

Visible Spectrum

Lamp type:	1600 Watt Xenon Short-Arc
Peak Beam Intensity:	30-40 Million Candlepower
Focus Range:	4° (narrow) - 20° (wide)
Focus Control:	Bidirectional

Non-visible (IR) Spectrum:

Lamp type:	10 Watt High Power LED
Focus Modes:	14° (narrow) / 40° (wide)
Dimming:	0% - 100%

Application Information

Adaptable to helicopters, fixed wing aircraft, maritime and ground based applications.

Typical Range:	330 ft (1km)
Target ID Range:	1 Mile (1.6km)
Peak Illuminance:	32 Lux (2.9 ft. cd) @ 1km
Diameter at 10% of Peak Illuminance:	230ft @3300ft, (70m @ 1km)

Azimuth Rotation:	344°
Elevation Range:	+2° to - 74° (+/- 1°)
Elevation Slew Rate:	0 - 90° / sec (programmable)
Azimuth Slew Rate:	0 - 90° / sec (Programmable)
Link-ready for imaging systems using RS232/422	

Mechanical Characteristics

Searchlight & Gimbal

Maximum Height:	30.15" (76.58 cm) - lookdown
Minimum Height:	21.11" (53.61 cm) - max look up
Gimbal Diameter:	12.2" (30.9 cm)
Searchlight/Gimbal Weight:	68 lbs. (30.4 kg)

Adjustable Hard Stops in Azimuth and Elevation

AZ = 24 adjustable positions (15° increments)

EL = 10 adjustable positions (6.5° increments)

Hand Controller

Dimensions:

Width:	4.0" (10.2cm)
Length:	9.0" (22.9cm)
Depth:	4.0" (10.2cm)
Weight:	2.0 lbs (.91kg)

Junction Box

Dimensions:

Width:	6.0" (15.2cm)
Length:	7.0" (17.8cm)
Depth:	5.0" (12.7cm)
Weight:	6.1 lbs (2.8kg)

Electrical Requirements

Input Voltage:	28 Volts nominal (26.5 - 29.0 VDC)
Input Current:	65 Amps nominal 12 Amps nominal in IR Mode
Start Time:	3 - 5 seconds typical
Recycle Time:	None Required

Options / Accessories

Input/Output Kit for dual control capability Sidecar Control Box offers independent use or for pairing with EO Sensor Hand Controller.

