

SX-16 Nightsun® IFCO

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Product Highlights

In Flight Change Over

Key Specifications & Characteristics:



- In Flight Change Over from white light to filtered infrared light output
- 40 Million Candlepower Peak Beam Intensity typical
 - 30 Million Candlepower, minimum
- 60,000 Lumens Lamp Output
- 4° to 20° Focus Range (Beam Width)
- 3,280 ft. (1 km) Typical Range
- 32 Lux (2.9 ft-cd) Peak Illuminance @ 1 km
- Useful Range for Target ID – 1 mile (1.6km)
- Diameter of Beam at 10% Peak Illuminance
 - 230 ft. (70m) wide @ .6 mile (1 km)
- Operating Temperature Range: -40°C to +70°C

Applications

SX-16 Nightsun® IFCO searchlight has been installed on helicopters and fixed wing aircraft alike. If in flight change over from white light to infrared light is a requirement of the mission, this is the solution.

System Description:

The SX-16 Nightsun® IFCO Searchlight uses the 1600 Watt Xenon Lamp from the standard Nightsun® but adds the IFCO Hood which has an infrared filter on it. This Hood is remotely controlled and when the mission calls for it, can be changed while in flight from the white light over to filtered infrared light, or vice versa.

Can be upgraded to linking with the addition of SpectroLink Integration Box thus allowing for Searchlight to be linked to camera or moving map system.

preliminary

SX-16 Nightsun® IFCO

Envelope



Mechanical Configuration: Gimbal

Type	<ul style="list-style-type: none"> Two Axis Remote Controlled
Weight	<ul style="list-style-type: none"> 9 lbs. (4.1 kg) Aluminum 15 lbs. (6.8 kg) Steel
Slew Rate	<ul style="list-style-type: none"> Standard = 9° per second High Speed = 18°/second

Mechanical Configuration: Junction Box

Dimensions	<ul style="list-style-type: none"> 8.62" L x 6" W x 5.20" H (21.8cm x 15.2cmL x 13.2cm)
Weight	<ul style="list-style-type: none"> 7 lbs. (3.2 kg)

Mechanical Configuration: Control Box

Dimension	<ul style="list-style-type: none"> 5" L x 2.25" W x 1.75" H (12.7cm x 5.7cm x 4.4cm)
Weight	<ul style="list-style-type: none"> 13 ounces (363 grams)

Electrical System

Input Voltage	28 Volts DC, Nominal
Input Current	55-62 Amperes
Start Time	3-5 Second, typical
Recycle Time	None Required

Mechanical Configuration: Searchlight

Dimensions	<ul style="list-style-type: none"> 20.6" (52.3 cm) – closed 19.5" (49.5 cm) – open
Weight	38 lbs. (17.3 kg)
Cooling Provisions	Internal Vaneaxial blower with filtered air intake.
Lamp	Max. life expectancy 1,000 hours or 2 years

Total System Weight

Total System Weight	55-70 lbs. (25-31kg)
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