

SX-16 Enhanced Nightsun® IFCO

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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

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Envelope



Electrical System

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

Mechanical Configuration: Searchlight

Dimensions	<ul style="list-style-type: none"> 20.6" (523mm) – closed position 19.5" (495mm) – open/up position
Weight	<ul style="list-style-type: none"> 38 lbs. (17.3kg)
Cooling Provisions	Internal, brushless cooling fan with filtered air intake
Lamp	Max. Life expectancy 1000hours, 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	<ul style="list-style-type: none"> 8.5" L x 6.25" W x 5.1" H (21.6cm x 15.9cm x 12.95cm)
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Mechanical Configuration: Control Box

Dimensions	<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)

Total System Weight

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