

SPECTROLAB

A BOEING COMPANY

Spectrolab Searchlight Product Line Mix



Characteristic	Unit	SX-5 Starburst	SX-7 StarSun	SX-16 Nightsun	SX-16 Nightsun Enhanced	SX-16 IFCO Nightsun	SX-16 IFCO Nightsun Enhanced	Nightsun XP	Nightsun XP IR LED
Lamp Type	Watts / Xenon Short Arc	500W	750W	1600W	1600W	1600W	1600W	1600W	1600W
Peak Beam Intensity	Candle Power	15 - 20 Million	30 - 35 Million	30 - 40 Million	40 - 50 Million	30 - 40 Million	40 - 50 Million	40 - 50 Million	40 - 50 Million
Intensity / Peak Luminance @ 1km	Lux	40	32	32	32	32	32	32	32
Beam Range	ft	1650 (500m)	3280 (1 km)	3200	3200	3200	3200	3300	3300
Focus Range	degrees	2° - 10°	2° - 10°	4° - 20°	4° - 20°	4° - 20°	4° - 20°	4° - 20°	4° - 20°
Beam Width	Ft @ 1640 AGL	143	143	230	230	230	230	230	230
Focus Control	---	Uni-directional	Bi- directional	Uni-directional	Bi- directional	Uni-directional	Bi- directional	Bi- directional	Bi- directional
Input Voltage	VDC	28	28	28	28	28	28	28	28
Input Current	Amperes	25 - 30	30 - 35	55 - 62	55 - 62	55 - 62	55 - 62	55 - 62	55 - 62 (12 in IR Mode)
Ignition Start Time	seconds	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5	3 - 5
Recycle Time	---	None required	None required	None required	None required	None required	None required	None required	None required
Cooling Provisions	Cooling Blower	Brush	Brush	Brush	Brushless	Brush	Brushless	Brushless	Brushless
Operating Temp	Celsius	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C	-40° to +70° C
Status Indicator(s)	System hour meter	No	Yes	No	Yes	No	Yes	Yes	Yes
AZ & EL Slew Rate	Degrees / second	9° or 18°	0 - 40°	9° or 18°	18°	9° or 18°	18°	1° - 60°	1° - 60°
EL Hard Stops	Mechanical	Fixed	Adjustable	Fixed	Adjustable	Fixed	Adjustable	Adjustable	Adjustable
AZ Hard Stops	Mechanical	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable	Adjustable
Weight - S/L & Gimbal Assy.	Lbs. (kg)	18.5	19.5	34 - 40	37 - 40	47 - 53	47 - 53	55	61
System Weight (including cables)	Lbs (kg)	30 (13.6 kg)	31	55 - 67	55 - 70 (25 - 31 kg)	58 - 78	58 - 78	65 - 85	65 - 90
Envelope Dimension (S/L & Gimbal)	inches (H x W x D)	16.3 x 13 x 11.4	15.8 x 12.84 x 12.81	24.7 x 16.2 x 22.4	24.7 x 16.2 x 22.4	24.6 x 17.6 x 26.4	24.6 x 17.6 x 26.4	24.4 x 13.1 x 20.75	24.4 x 13.1 x 20.75
Control Input Options:	Camera Slave	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	Integrated	Integrated
	Moving Map Control & Status	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	Integrated	Integrated
	Sidecar Controller	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	Via I/O Box	Via I/O Box
	Pilot / secondary Cyclic Control	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	via SpectroLink	Integrated	Integrated
Optional System Configurations	Backside S/L Connector	Standard	Standard	Yes	Yes	Standard	Standard	N/A	N/A
	Infrared Light Option	Snap-on Window Option	Snap-on Window Option	Fixed Window Option	Fixed Window Option	InFlight Change Over with IR Window Filter between White Light & IR Light modes	InFlight Change Over with IR Window Filter between White Light & IR Light modes	No	InFlight Change Over with IR LED's between White Light & IR Light modes
	Gold Reflector (for more natural light hue)	Yes	No	Yes	Yes	No	No	Yes	Yes
	SpectroLink	Yes	Yes	Yes	Yes	Yes	Yes	Integrated	Integrated

SpectroLink adds linking / slaving, dual control, stow, cage, and keep out zone capabilities to any of the above SX Series Searchlight System



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