

Nightsun® XP Searchlight System Control Options & Comparison Matrix

The Nightsun® XP is Spectrolab's newest addition to the Searchlight Product line, offering the aerodynamic and rigid XP design. Internally, the XP uses computer controlled ultra high speed motors for precise maneuverability with increased control functionality and camera sensor linking capabilities. The system is capable of supporting several control options for multiple configurations. The Nightsun® XP continues on with the same light output and intensity of the SX-16 Nightsun® providing more than 30 million candle power and improved beam spread.

The following control option listing and functional comparison matrix are intended to aid in the selection of your Nightsun® XP Searchlight System configuration. Please inquire for specification sheet and detailed information.



Images not to scale

Control Option	Hand Controller Assy.	Console Mount Control Panel	Sidecar Controller Assy.
Part Number	032788, -1, -2, -3, -4	034363, -2	033002, -1, -2
Functions & Features			
Control Inputs			
- System On/Off	X	X	X
- Lamp on/off	X	X	X
- Cage	X	X	X
- Stow / Lamp off	X	X	X
- IR on/off	X	X	
- IR gain	X	X	
- Focus +/-	X	X	X
- Up/down left/right	X	X	X
- Link on/off	X	X	X
Status Indicators			
- System on	X	X	
- Lamp on	X	X	
- Stow	X	X	X
- Cage	X	X	
- IR on	X	X	
- Comm Fault	X	X	X
- Fan Fault	X	X	
- Keep Out Zone	X	X	
- Link on	X	X	X



Images not to scale

Control Option	Hand Controller Assy.	Console Mount Control Panel	Sidecar Controller Assy.
No. of switches/type	7 switches - 5 two pos momentary - 1 two pos static - 1 force transducer	7 switches (MilSpec) - 5 two pos momentary - 1 two pos static - 1 force transducer	6 switches - 4 rocker - 1 two pos latching - 1 force transducer
Backlighting	Yes, NVG friendly	Yes, NVG friendly	No
Connection type	Single 13 pin connector mating to removable coil cable with 2 connectors	DSUZ mount, rear 22 pin connector	Attached straight cable with 51 pin connector
Dimensions	Height: 8.89" Width: 4.12" Depth: 3.09"	Height: 3.38" Width: 5.75" Depth: 5.00"	Height: 4.25" Width: 1.75" Depth: 2.19"
Notes	The recommended -1 configuration contains universal software to support linking capabilities with most popular camera/IR sensor platforms.	The recommended configuration contains universal software to support linking capabilities with most popular camera/IR sensor platforms.	Requires the use of the Nightsun XP Remote I/O Box Assy., PN: 032787, -1. The recommended -1 configuration contains universal software to support linking capabilities with most popular camera/IR sensor platforms.

SOLE SOURCE: Spectrolab is manufacturer of and sole source for components of the Nightsun® II, Nightsun® XP, SX-16 Nightsun®, SX-7 Starsun, and SX-5 Starburst® searchlight systems. We have no authorized domestic distributors. We are an FAA-approved repair station for our searchlight systems.

Reference Documents:

- 032738 – Hand Controller Assy., Nightsun XP – Outline & Mounting
- 034363 – Console Control Panel Assy., Nightsun XP – Outline & Mounting
- 033002 – Sidecar Assy., Nightsun XP – Outline & Mounting
- 032787 – Remote I/O Box Assy., Nightsun XP – Outline & Mounting