The **NightSTAR** Searchlight

provides ***Radar Tracking, FLIR® Tracking, MOB-Assist*** *and more for* ***USVs***

USV Integrated Searchlight Benefits

- ***Enhanced Search and Rescue:*** *Bright Beam locks on Radar and FLIR Camera Targets, pinpointing the location and guiding rescue craft*
- ***Greater Target Identification:*** *Illumination coordinated with visible sensors, provides details of persons and objects, not recognizable by thermal imagers*
- ***Strategic Visual Deterrence:*** *Illuminating suspicious vessels warns them they are being monitored. The bright beam denies night vision, and the powerful strobe imparts a Nonlethal disorienting effect*

"Lighting The Way Forward Since 1894"

NightSTAR Specifications

Main Beam	
Intensity/Spread	1.55 Million Candela, 5° Beam Spread
Distance Serviced	1 Lux @ 1245 meters, 100 meters wide
Wide Beam	
Intensity/Spread	70,000 Candela, 26° Beam Spread
Distance Serviced	1 Lux @ 265 meters, 122 meters wide
Beam Speed	Fastest 40° per sec., Slowest 0.5° per sec.
Light Source	Long-life LEDs, 20,000+ Hours, 5600K
Power and Voltage	165 Watts @ 12-32VDC (Main and Wide Beam ON)
Size and Weight	218mm (H) x 262mm (W) x 249mm (D), 21.5lb (9.8kg)
Horizontal Rotation	Continuous unlimited 360° with no stop points
Vertical Span	+30° Up and -30° Down (60° total)
Environmental	IP66 (Searchlight and Joystick)
Temperature Range	-20 °C to +50 °C ambient air temperature
Finish	Salt-resistant, scratch-resistant powder coat
Materials	Marine Grade Aluminum w/Stainless Fasteners
Mounting	Standard or Inverted – Auto sensing
Joystick Controller	Proportional speed throughout continuous spectrum
Auto-Sweep	Horizontal scanning function with user configurable range
Auto-Home	Automatically returns to Home Position
Distress Beacon	Rotation and SOS signal during emergencies
High Powered Strobe	Disorienting and Dizzying Nonlethal Deterrence
Intelligent Switching	Same Joystick selects/controls other searchlights on BUS
Gyrostabilization	Compensates for wave motion

OPTIONS

Multiple Joysticks	More than one joystick controls same searchlight
SmartVIEW Gateway	Allows Remote TCP/IP Computer Control and Integration with Radar, FLIR®/Sea.AI camera systems, TimeZero®, and more
ACR Conversion Kit	ACR RCL-100 mounting conversion kit

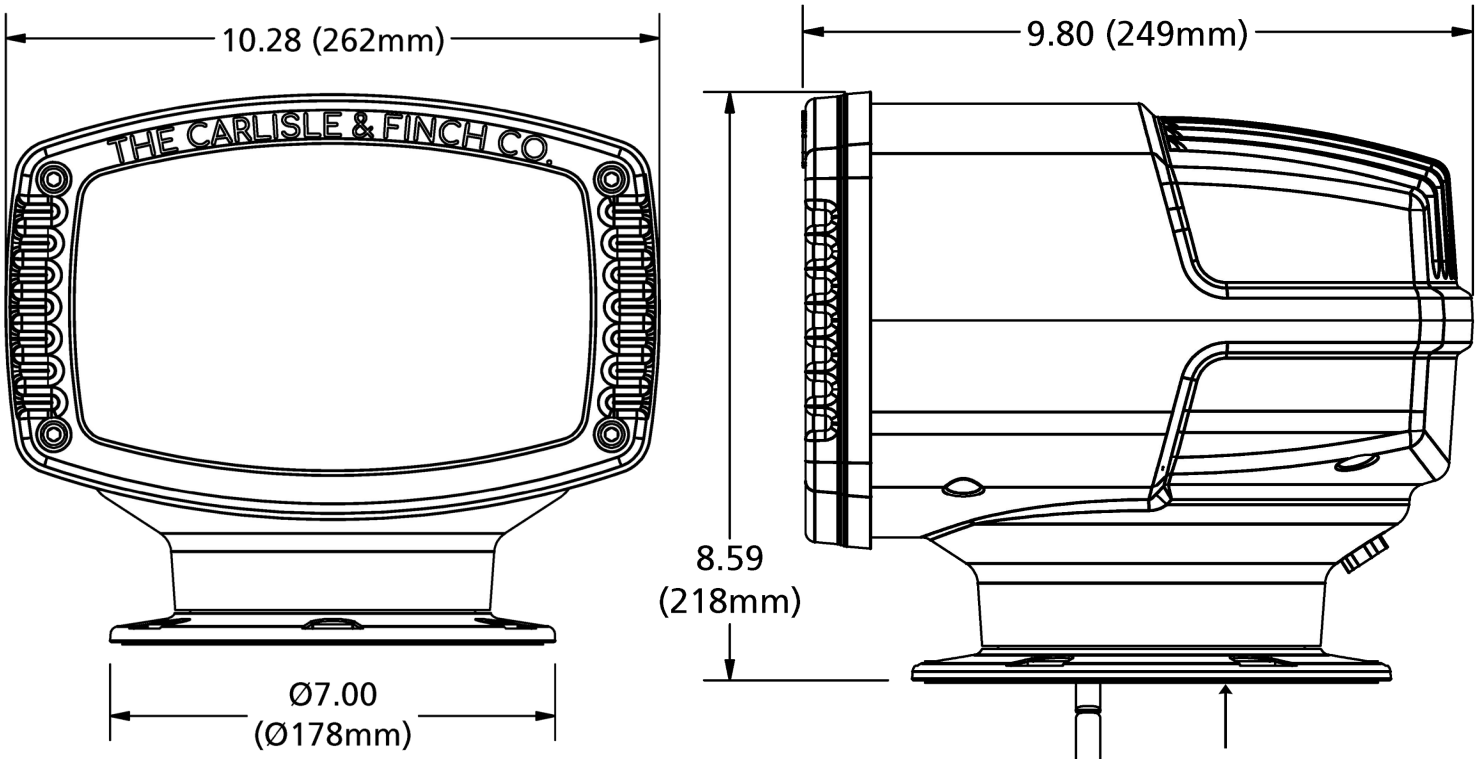
Lighting the way forward since 1894

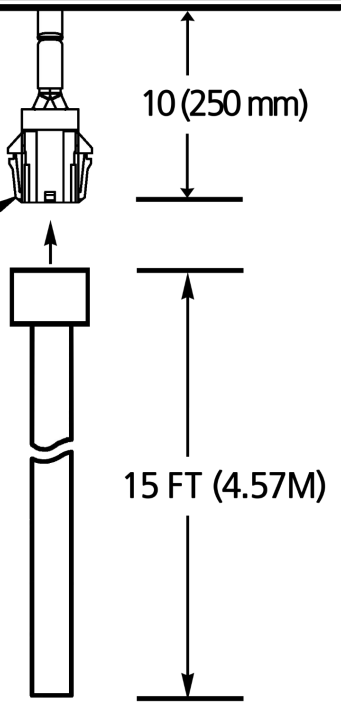
Powerful Features Unique Capabilities

Slip-rings provide continuous 360° horizontal rotation with no stop points

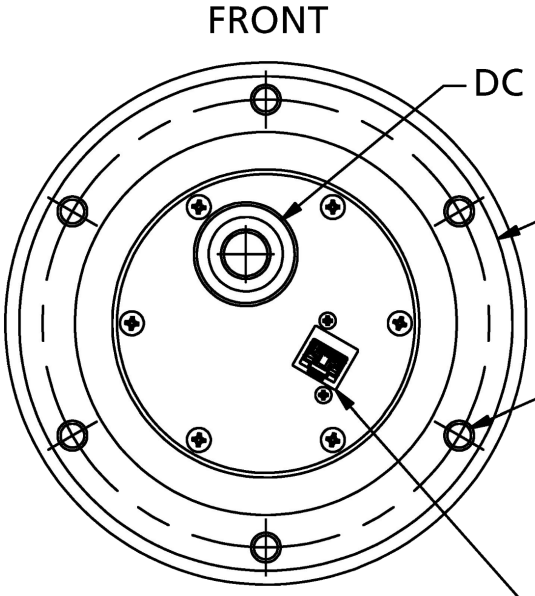
Sleek Proportional Speed Control

Searchlight Dimensions in inches (mm)





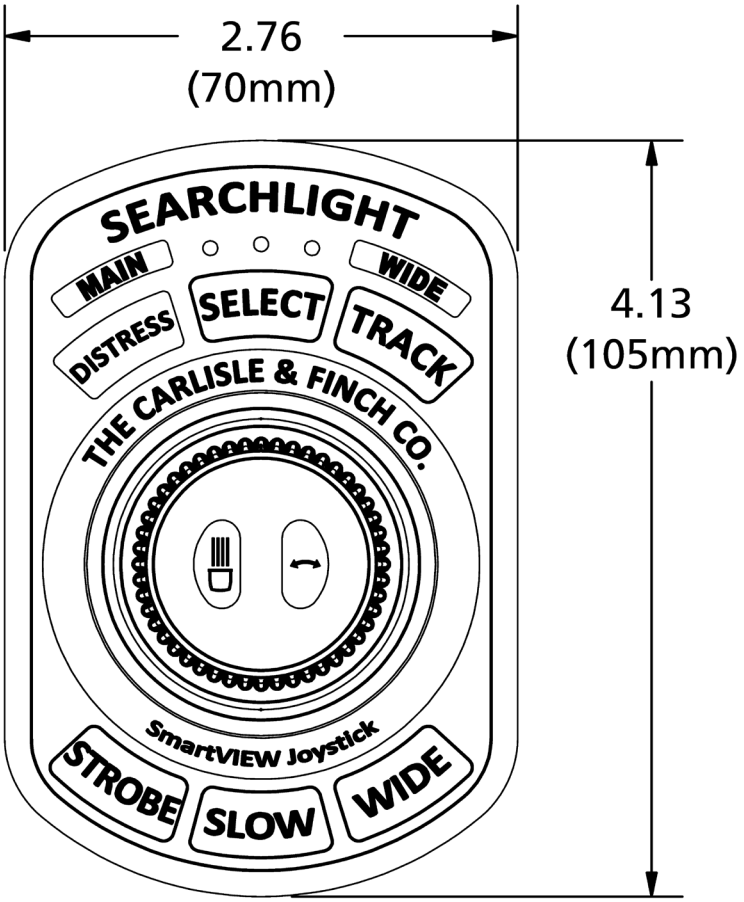
DC Power Input
Approx 10" (250mm) 12AWG Pigtail Length
15 ft (4.57M) 8 AWG Mating Cable Supplied

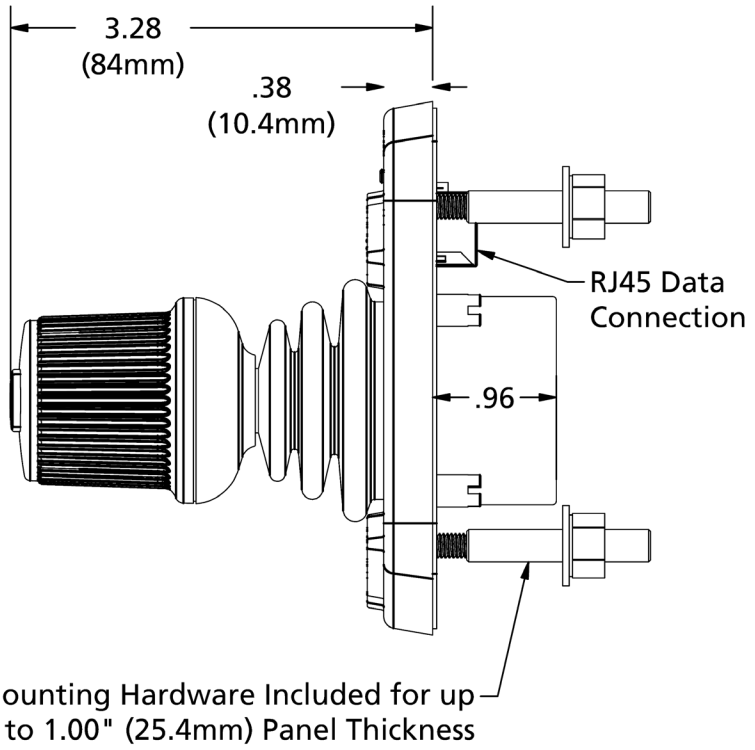


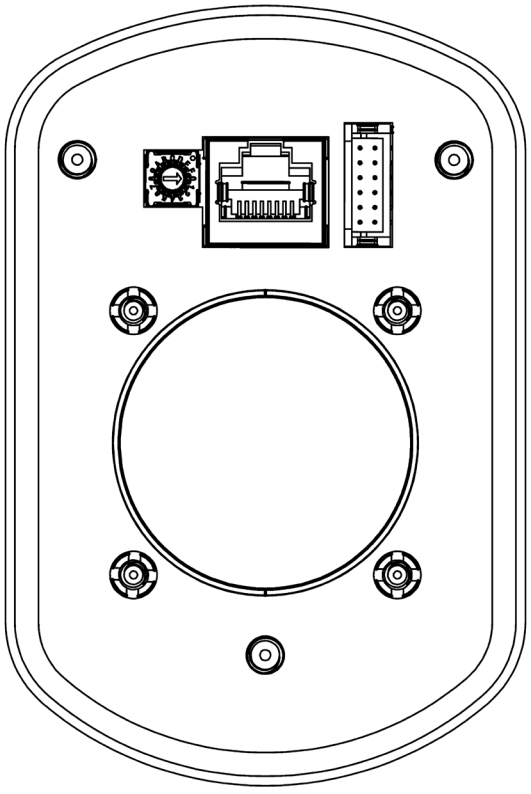
Mounting Holes
Ø.320 (8mm) Equal Spaced on
Ø6.00 (152.4mm) Bolt Circle,
Sized for 5/16" or 8mm Hardware

RJ45 Jack for Control Connection,
(Standard Shielded Ethernet Patch
Cables Used for System Interconnect

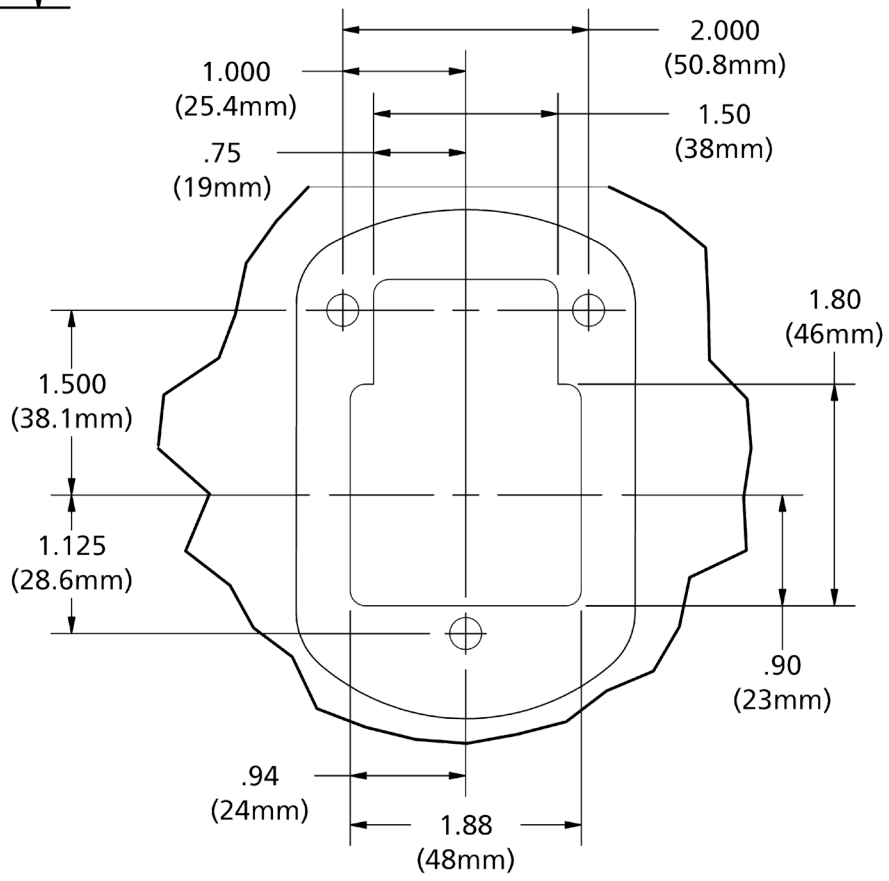
Joystick Dimensions in inches (mm)



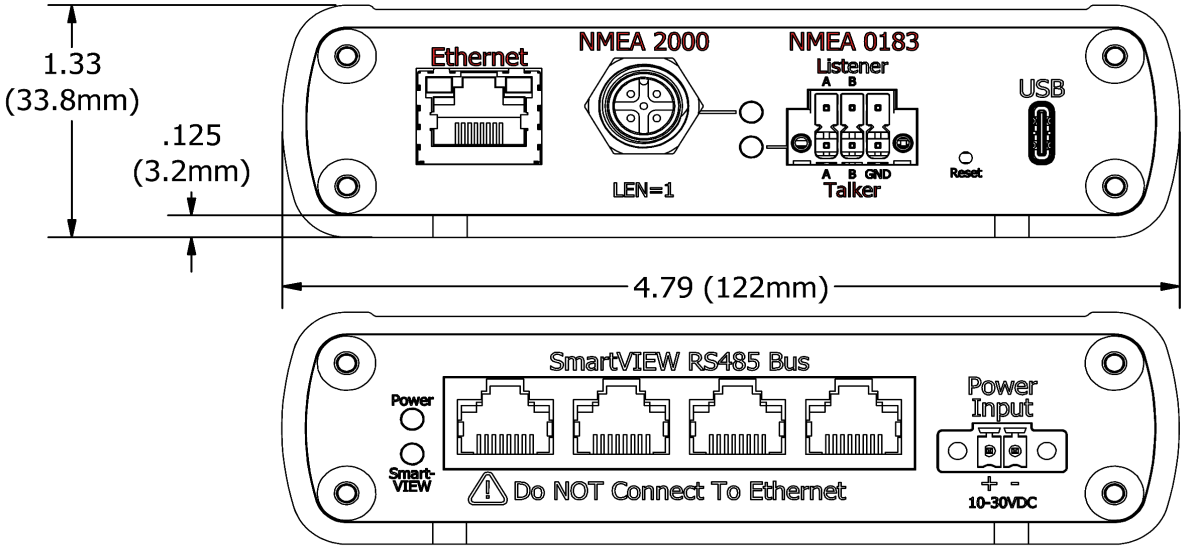


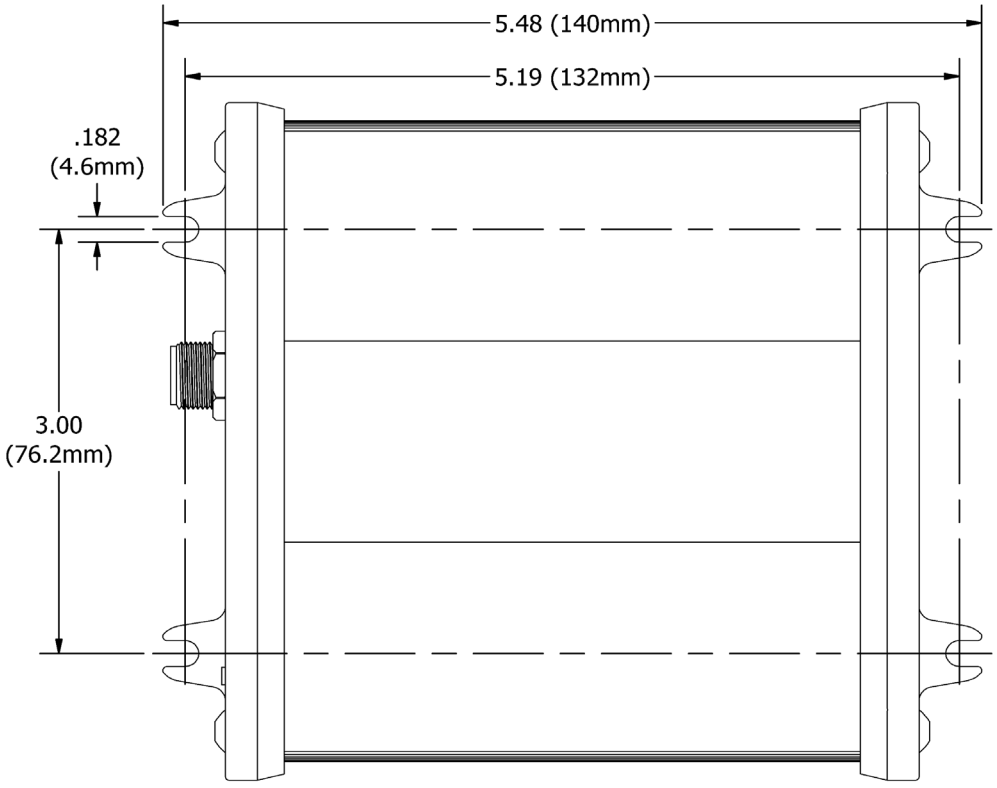


Console Cutout



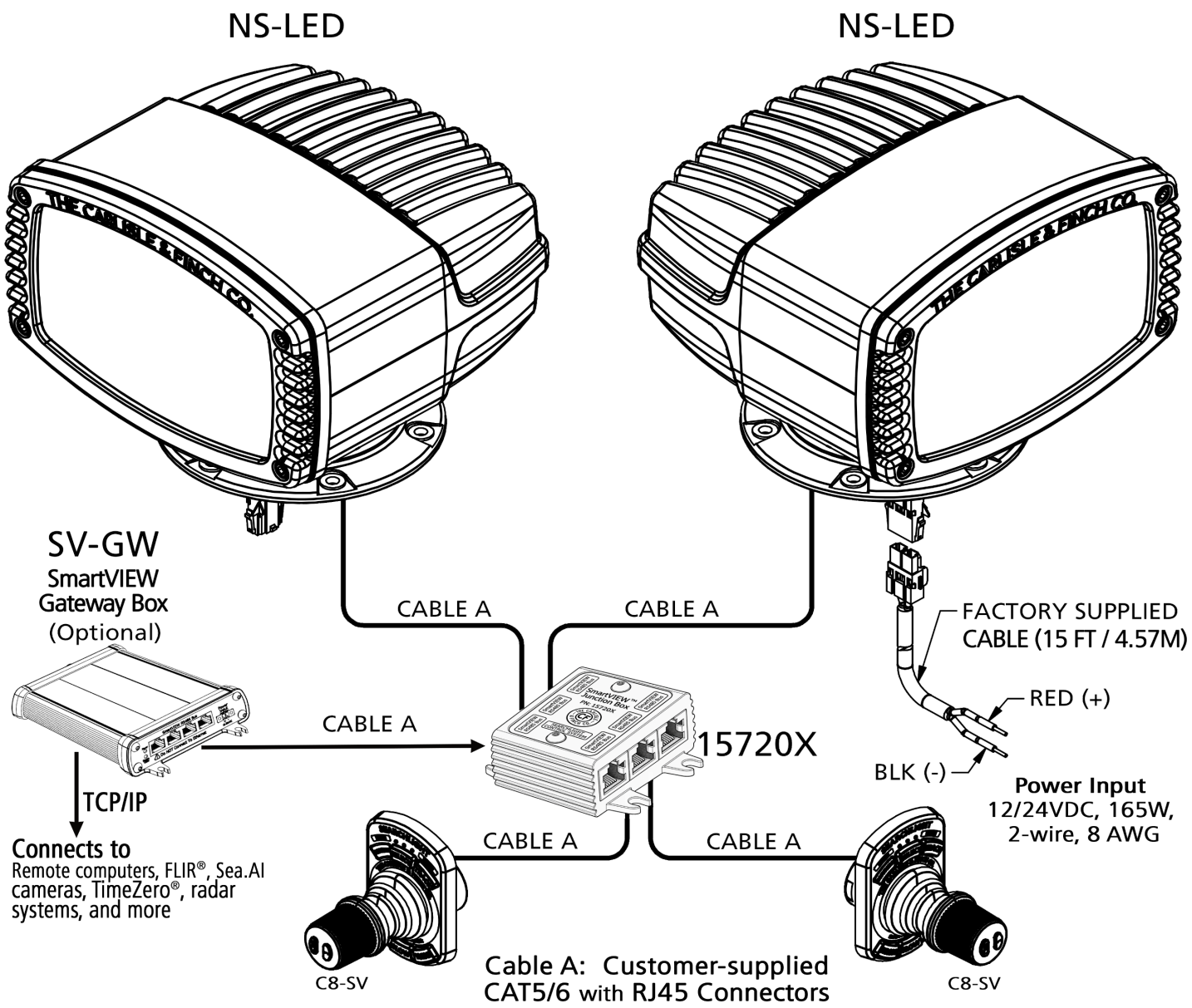
SmartVIEW™ Gateway Box in inches (mm)





MODEL NUMBER	DESCRIPTION
NS-LED	NightSTAR Searchlight *Same model for Inverted mounting*
C8-SV	Proportional Speed Joystick Controller *Same model for indoor and outdoor mounting*
	OPTIONS and **ACCESSORIES**
15720X	Junction Box, *6 ports to connect additional SmartVIEW devices*
SV-GW	SmartVIEW™ Gateway, *provides Ethernet Interface, RADAR Tracking, FLIR®/SEA.AI Camera Tracking, etc.*
K15697	Riser, *allows extra space for cable entry or longer mounting screws*
K15696	ACR Mounting Adapter Plate
K15695	ACR Mounting Riser, *contoured for smaller molded ACR mounting bases*
15723	15-ft Power Cable Assembly, *included with* **NS-LED searchlight**, *but may be ordered separately*
15759X	Joystick Surface Mount Adapter, *used if limited depth is available behind panel*
PS15532	100-240VAC to 24VDC Power Supply

NightSTAR™ System Wiring

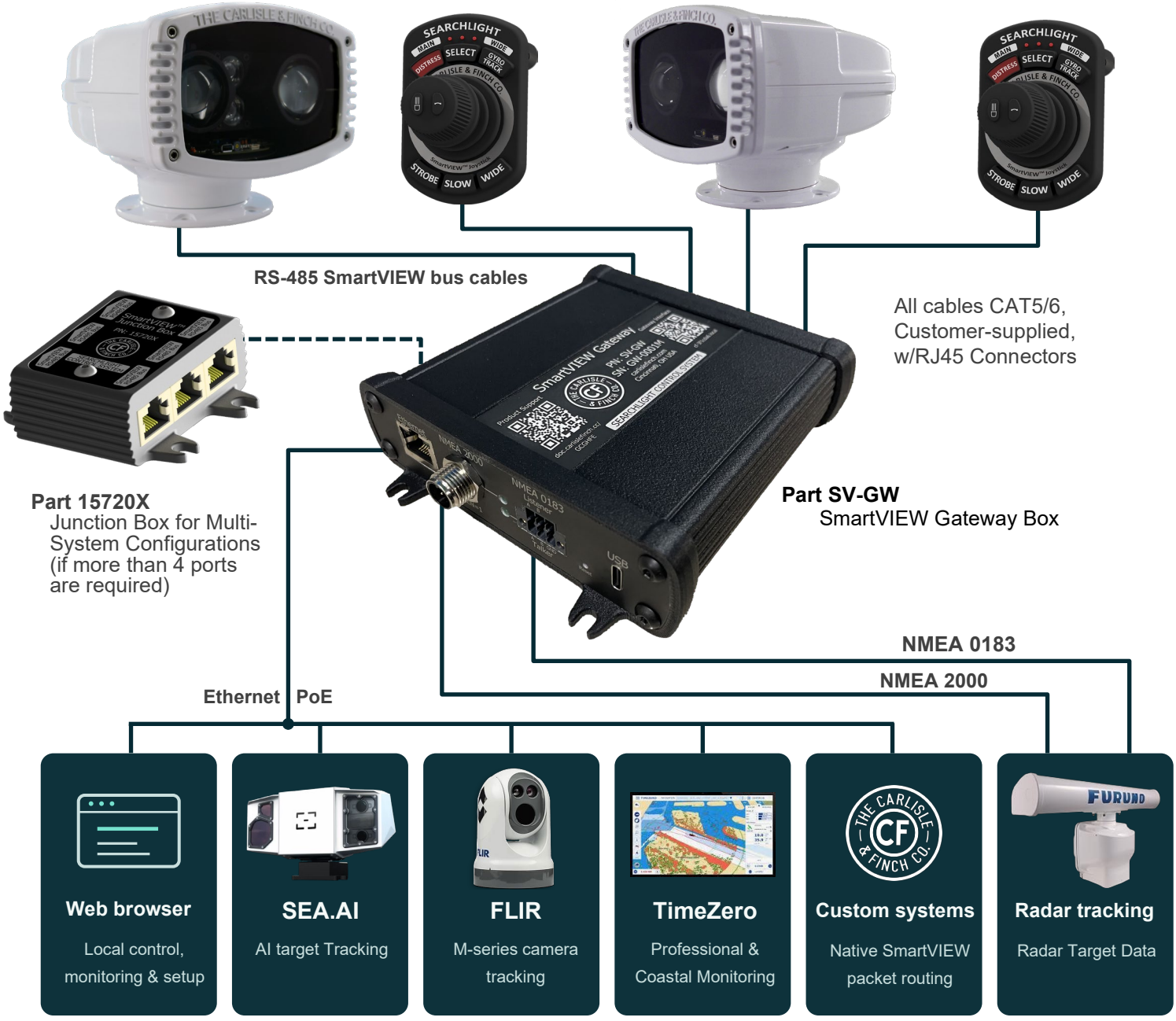


The example above shows two searchlight systems installed without the optional SV-GW SmartVIEW Gateway. Either joystick can select and control either searchlight onboard. An indicator light on each joystick panel identifies which searchlight is currently being controlled.

The 6-port 15720X junction box is required when more than one searchlight and one joystick are ordered. If the system requires more than six ports, a second 15720X can be daisy-chained to accommodate additional devices.

The optional SV-GW SmartVIEW Gateway provides TCP/IP connectivity to Remote Computers, Radar Systems (NMEA 0183 or 2000), FLIR® Cameras, SEA.AI Cameras, TimeZero® Navigation Software, and other compatible equipment. If the SV-GW is not included with the original order, it can be added later with a simple firmware update to each searchlight.

NightSTAR System with SmartVIEW Gateway Option



In the above configuration, each searchlight can be selected and controlled using either joystick. The SmartVIEW Gateway integrates with other marine electronics, including Radar (NMEA 0183 or NMEA 2000), FLIR® and SEA.AI cameras, TimeZero® navigation software, and other compatible equipment. It also enables browser-based control, monitoring, and configuration of the entire searchlight system.