



12-inch / 305mm LED Searchlight

Eco-Friendly Product

Beam Intensity	
3.5° Beam Option	3,500,000 Candela 1 Lux at 1870 Meters (approx.)
8.5° Beam Option	1,050,000 Candela 1 Lux at 1024 Meters (approx.)
Color Temperature	6200K
Controls	Joystick Electric Control, Remote Lever-Gear Control and Local Handle Control
Environmental	IP56
LED Emitter Life	45,000+ Hours (<i>tested in a system</i>)
Light Energy	7000 Lumens
Material/Finish	Anti-corrosive and salt-resistant Powder Coat (White, Black, Grey, and Custom). Polished Brass or Chrome Finish upon request.
Modular Redundancy	Each POD has its own electronics, so if one fails, a bright beam is still projected (Pg.2)
Power Consumption	120 Watts
Voltages	12VDC, 24VDC, 110VAC – 277VAC

OPTIONS

Anti-icing Heater	Thermostatically-controlled heater prevents ice build-up in cold climates (motorized base-only)
Azimuth Indicator	Console Panel displays horizontal aiming position in degrees (motorized base-only)
High Powered Strobe	Denies night vision and disorients intruder while transforming the searchlight into a Nonlethal Weapon
Morse Code	Signaling capability for Military/Government
Infrared Night Vision	Infrared (IR) LEDs project Invisible beam to human eye, but seen covertly with Lowlight Cameras/NVGs (Pg.4)
SmartVIEW™ Control	Control System provides Digital BUS Network, and TCP/IP Interface allows Remote Computer Control. Protocols supported: ONVIF, Pelco-D, NMEA 0183, Carlisle & Finch's own Protocol and TimeZero.
Wall of Light LEDs	Extremely wide beam at short range, illuminates areas where the narrower beam cannot service (Pg.3)



Joystick Electric Control



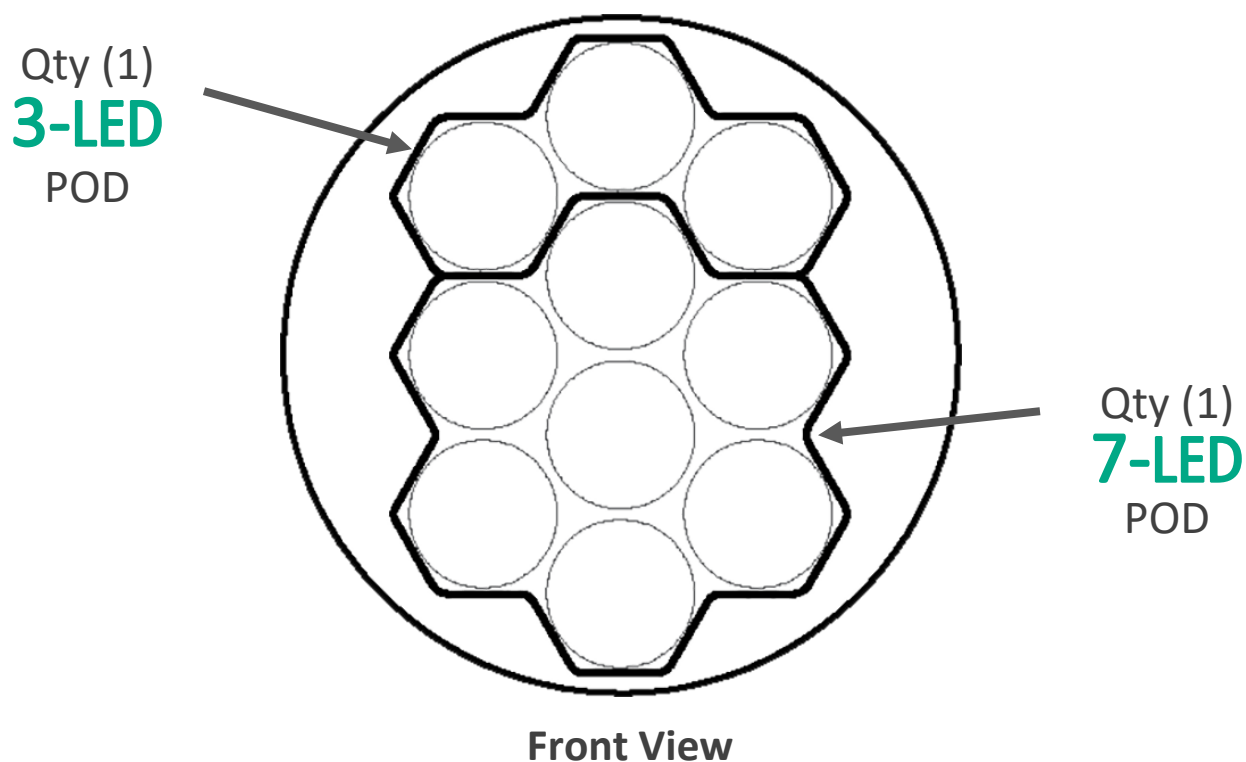
Remote Lever-Gear Control



Local Handle Control

Lighting the way forward since 1894

Redundancy and Extreme Long-life provides much higher reliability than Halogen Searchlights!

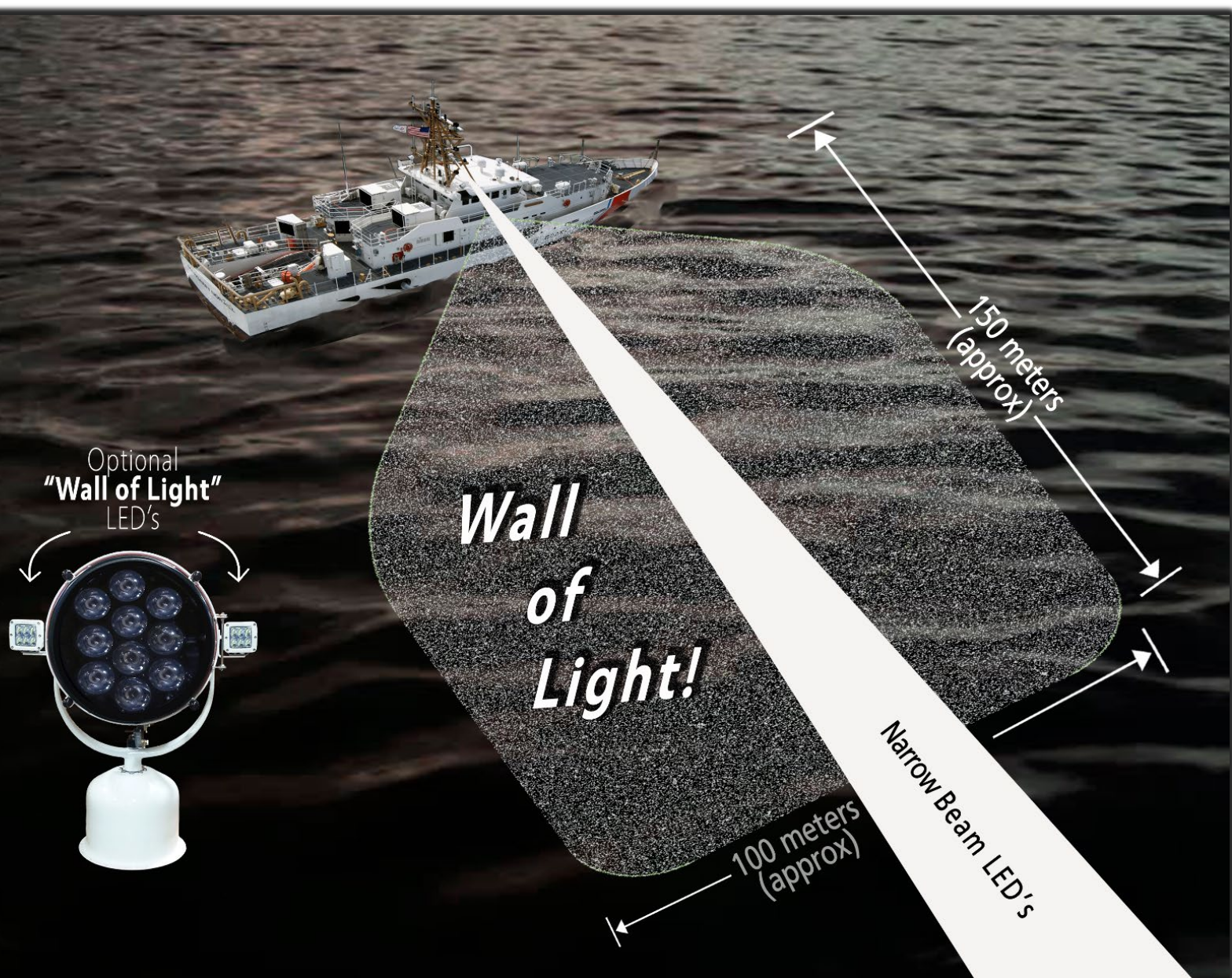


- **Multiple LED Redundancy:** There are 10 Individual LEDs (i.e., light sources.) If one fails, there are 9 more producing a bright beam.
- **Multiple POD Redundancy:** Each searchlight has two PODs. Unique to C&F, each POD has its own separate electronics. If a board happens to fail, the “Second POD” produces a bright beam in back-up mode.
- **Long Emitter Life:** When the lamp fails on traditional Halogen searchlights, the entire searchlight fails. Lamp-life is approx. 250 hours for the most popular industry standard lamps. Since the LEDs will last 45,000+ hours (*tested*), there are approximately 180 Halogen searchlight failures for every LED searchlight due to lamp-life alone (i.e., $45,000 \div 250 = 180$ failures.)

The Wall of Light!

“Auxiliary LEDs illuminate wide areas at close range where the narrower beam cannot service”

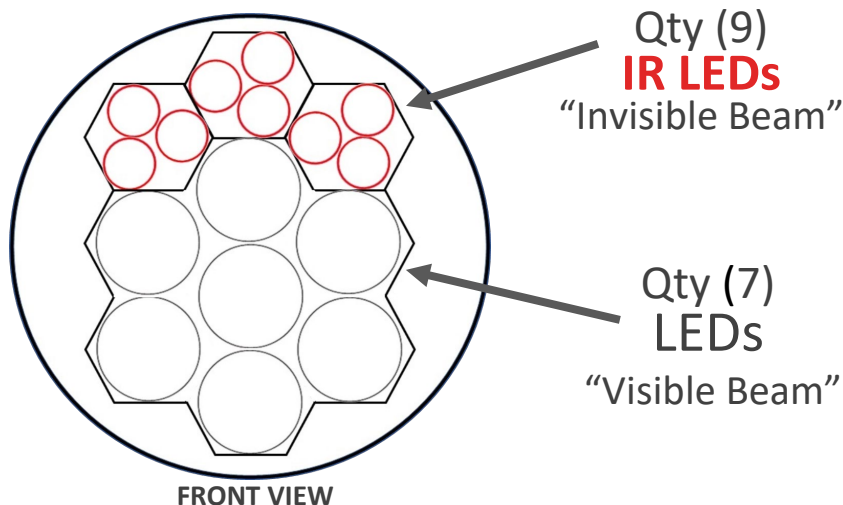
Imagine a passenger suddenly falls overboard on a marine vessel. Using the auxiliary LEDs for **“Search and Rescue”**, an operator can instantly direct a powerful **“Wall of Light”**, wider than a football field, anywhere around the vessel to save the person! This wide beam is also extremely effective for **“Vessel Interdiction”**, **“Docking”**, **“Seeing Workers at Night”**, **“Seeing near the base of a Guard Tower”**, etc. This option provides short range wide-beam illumination and long-range search capabilities, combined within one versatile product.



Infrared (IR) LEDs provide built-in Night Vision

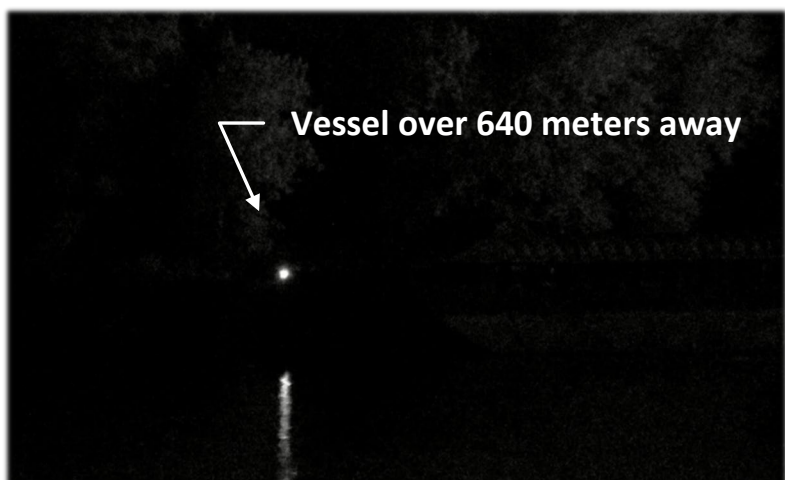
NIGHT VISION CAPABILITY!

An invisible beam, undetectable to the human eye, covertly lights up objects in total darkness, and they appear like daylight on a camera monitor. And greatly enhances Night Vision Goggles!



The **Visible Beam** is aligned on the same target, therefore the IR Beam is used as a "**Covert Targeting Device**", to instantly illuminate the object!

Night Scenes on Riverbank

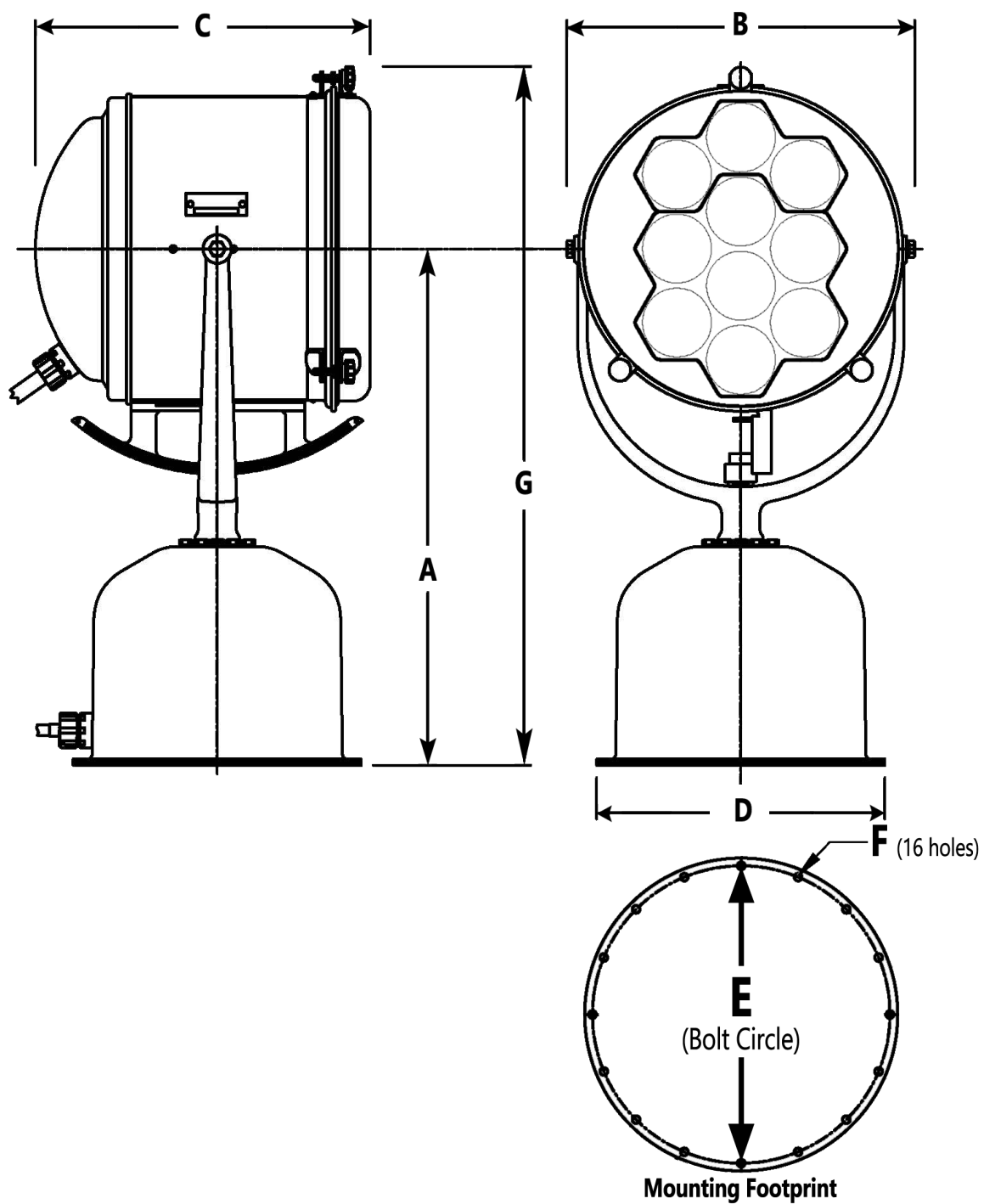


in Total Darkness



with (IR) Beam ON!

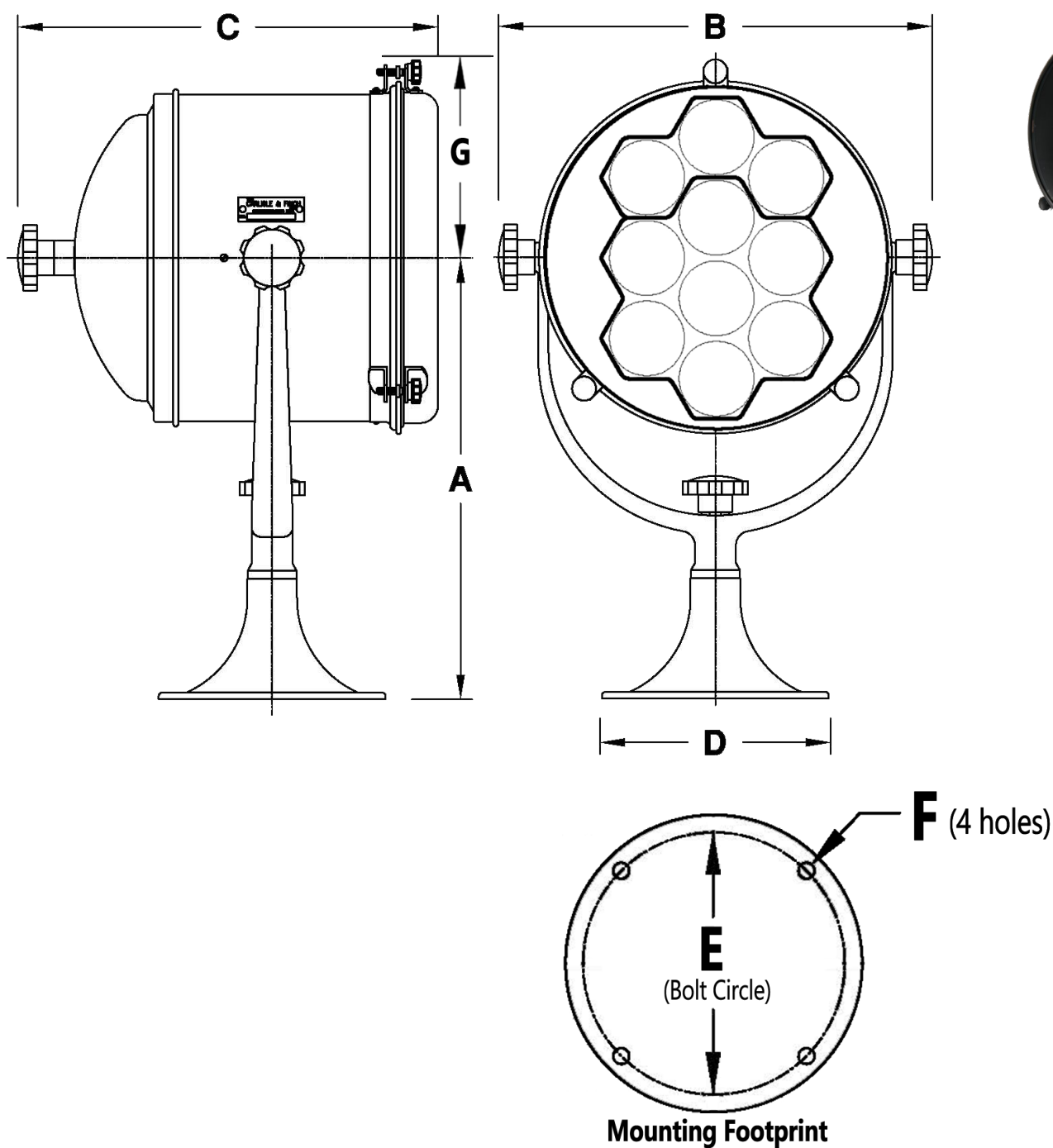
Joystick Electric Control Dimensions



DIM	A	B	C	D	E	F	G
inches	20.25	13.75	13.25	Ø11.38	Ø10.81	Ø.281	27.56
mm	514	349	336	Ø289	Ø274	Ø7.137	700

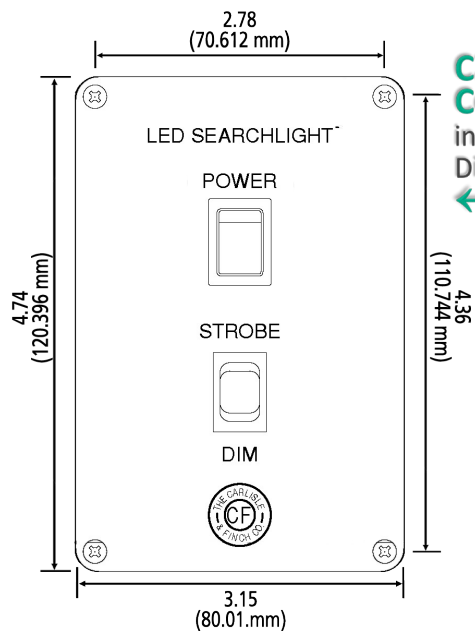
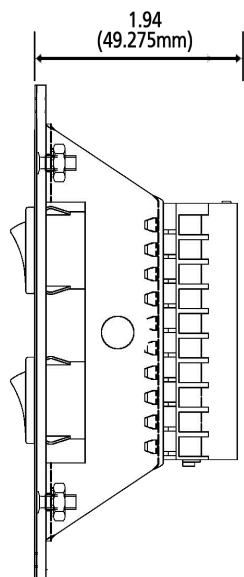
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Local Handle Control Dimensions



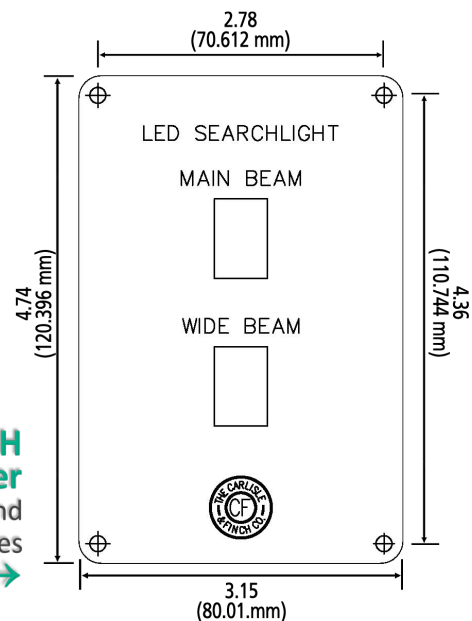
DIM	A	B	C	D	E	F	G
inches	15.94	15.62	15.50	Ø8.25	Ø7.38	Ø.41	7.28
mm	405	397	394	Ø210	Ø188	Ø11	184

Controller Dimensions

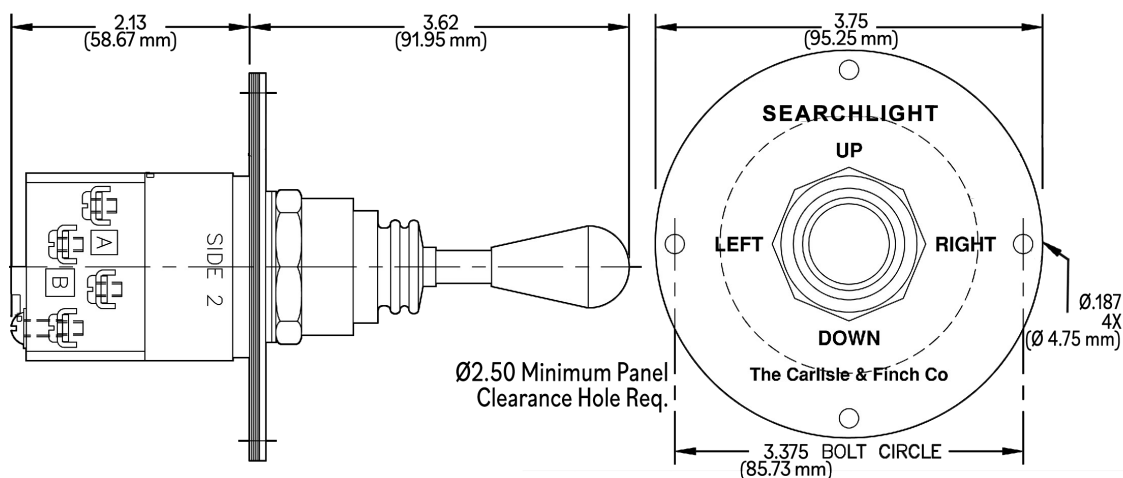


**C2-12
Controller**
includes Beam ON/OFF,
Dim and Strobe Switches

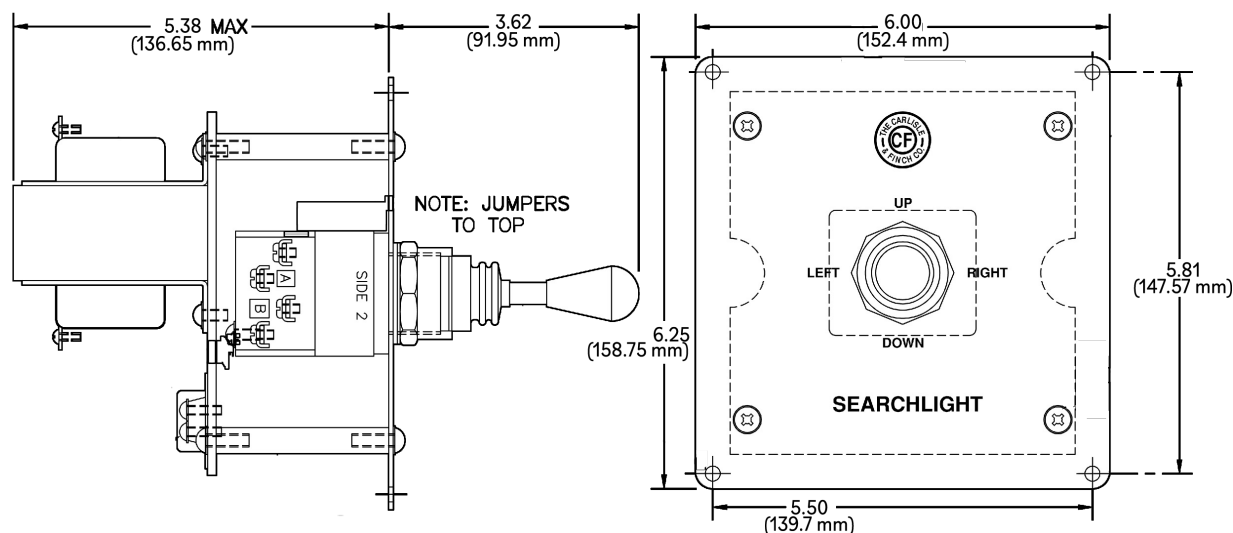
**C2-13-DCH
Controller**
includes Beam ON/OFF and
Wide Beam Switches



**C8160
Joystick Controller**
provides UP, DOWN, RIGHT
and LEFT Aiming and Dynamic
Breaking (115 VAC-only)

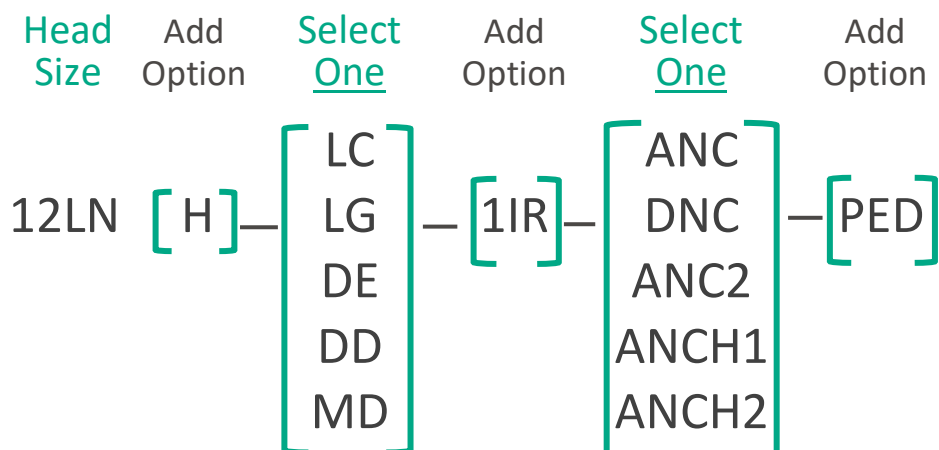


**C8160-230
Joystick Controller**
provides UP, DOWN,
RIGHT and LEFT Aiming and
Dynamic Breaking (230VAC-only)





How to specify Searchlight Model Number



CONTROLS

LC	Local Handle Control
LG	Remote Lever Gear
DE	Joystick Electric Control
DD	Conversion (DE)
MD	Conversion (Manual)

INPUTS

ANC	115/230 VAC
DNC	12/24 VDC
ANC2	230VAC (DEC-only)
ANCH1	115 VAC (with Anti-Icing Heaters)
ANCH2	230 VAC (with Anti-Icing Heaters)

OPTIONS

H	"Wall of Light" LEDs
1IR	Infrared POD
PED	Taller Pedestal than the Standard Base offering (Manual Control-only)

To specify optional **"DIM/STROBE"** change above Inputs as follows:

from ANC to **AC** from DNC to **DC** from ANC2 to **AC2** from ANCH1 to **AH1** from ANCH2 to **AH2**

To specify optional **"8.5° WIDE OPTICS"** change as follows:

Delete first N in the model number (e.g. 12LN-DE-ANC becomes **12L-DE-ANC**).

Note: To specify Searchlight Model Number, go to top of page and insert letters from left to right as applicable.

Example #1

Model Number: 12L-LG-ANC-PED

12-inch (305mm) diameter, Remote Lever-Gear Control, 115 VAC and Tall Pedestal option

Example #2

Model Number: 12LNH-DE-IR-AH1

12-inch (305mm) diameter, Wall of Light LEDs option, Joystick Electric Control, Infrared POD option, 115 VAC with Anti-Icing Heaters and Strobe option