



# 19-inch / 483 mm LED Searchlight

Eco-Friendly Product



Joystick Electric  
Control

**Beam Intensity**  
**3.5° Beam Option**

10,500,000 Candela  
1 Lux at 3240 Meters

**8.5° Beam Option**

3,150,000 Candela  
1 Lux at 1774 Meters

**Color Temperature**

6200K

**Controls**

Joystick Electric Control, Remote Lever-Gear, or  
Local Handle

**Environmental**

IP56

**LED Emitter Life**

45,000+ Hours (*tested in a system*)

**Light Energy**

21,000 Lumens

**Materials/Finish**

Marine Grade Aluminum and Stainless Steel with  
Salt-Resistant, Scratch-Resistant Powder Coat

**Modular Redundancy**

Each POD has its own electronics, so if one fails, a  
bright beam still is projected (Pg.2)

**Power Consumption**

400 Watts

**Voltages**

110VAC – 277VAC



Remote  
Lever-Gear  
Control

## OPTIONS

**Anti-icing Heater**

Thermostatically-controlled heaters prevent ice  
build-up in cold climates

**Azimuth Indicator**

Console panel displays horizontal beam aiming  
position in degrees (motorized base-only)

**High Powered Strobe**

Disorients and denies night vision of intruder and  
transforms searchlight into a Nonlethal Weapon

**Infrared Night Vision**

Integral Infrared (IR) LEDs covertly light up objects,  
which appear like daylight on camera monitor at night.  
Covert IR energy is 850NM. (Pg.4)

**SmartVIEW™**

Control System provides Digital BUS Network, and  
TCP/IP Interface allows Remote Computer Control.  
Protocols supported: ONVIF, Pelco-D, NMEA 0183 and  
Carlisle & Finch's own Protocol

**Wall of Light LEDs**

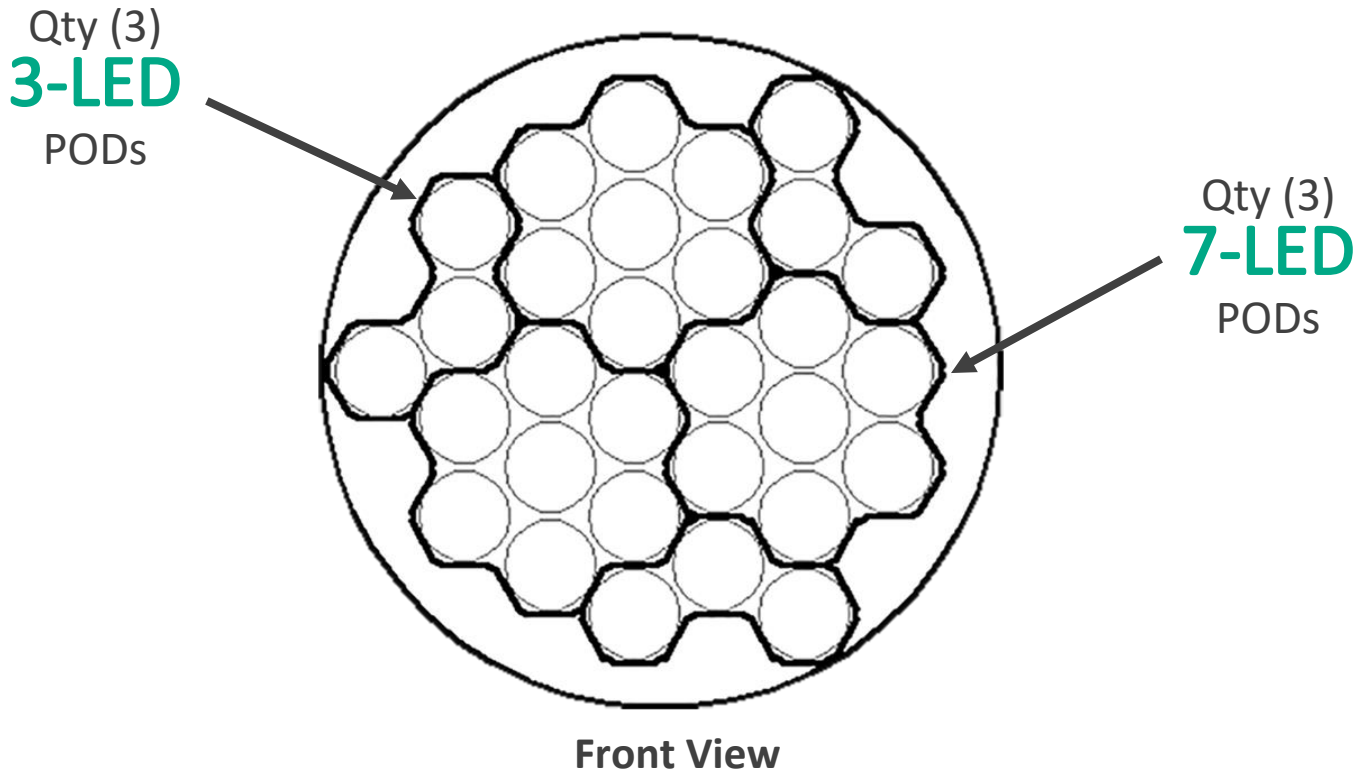
Wide beam at short range, illuminates areas where  
the narrower long-distance beam cannot service (Pg.3)



Local Handle  
Control

*Lighting the way forward since 1894*

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

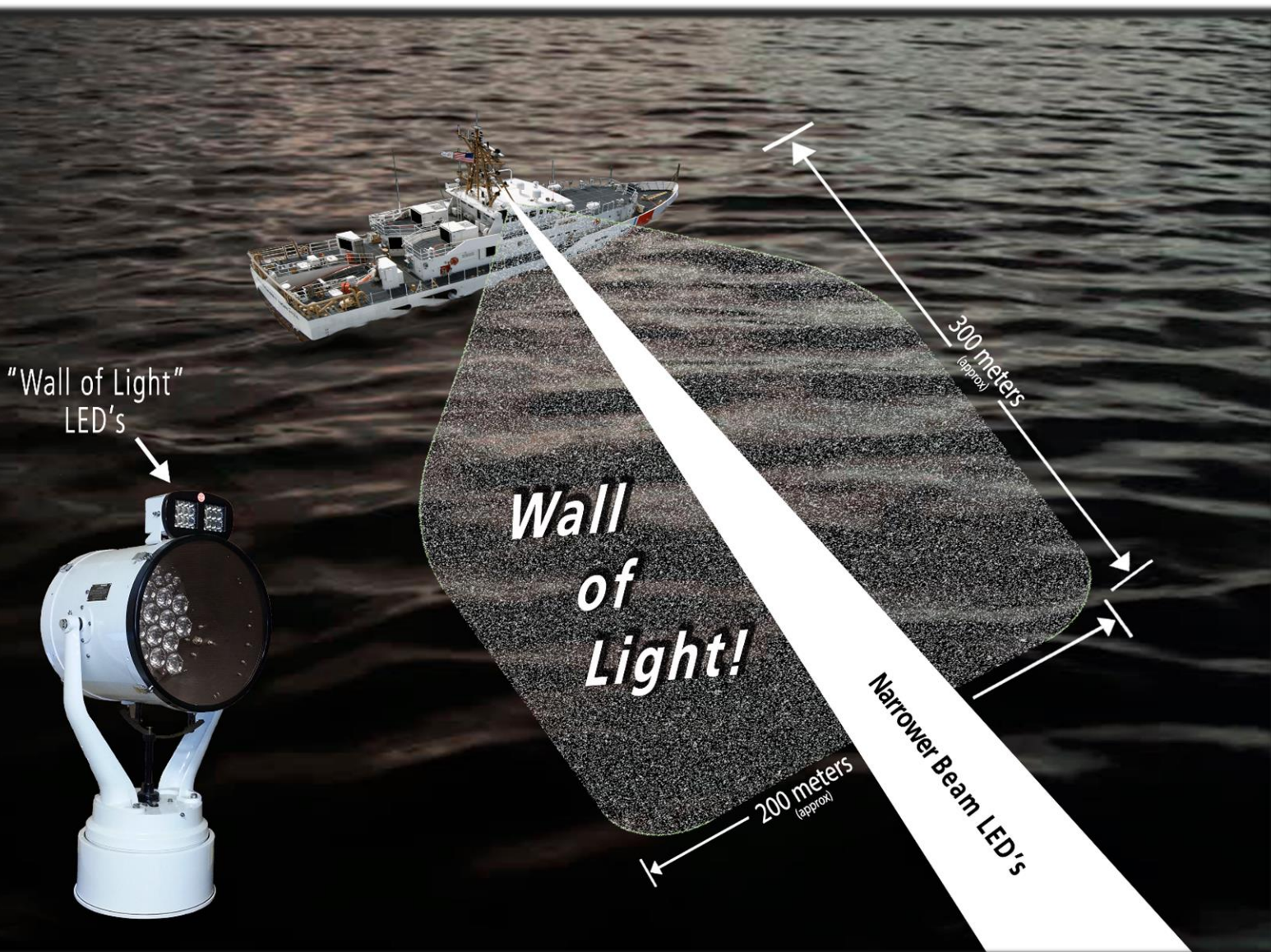


- **Multiple LED Redundancy** There are 30 Individual LEDs (i.e., light sources.) If one fails, there are 29 more producing a bright beam.
- **Multiple POD Redundancy** Unique to C&F, each POD has its own separate electronics. If an electronic board happens to fail, there are five (5) additional PODs producing 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, there are approximately 180 Halogen searchlight failures for every LED searchlight due to lamp-life failure 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.

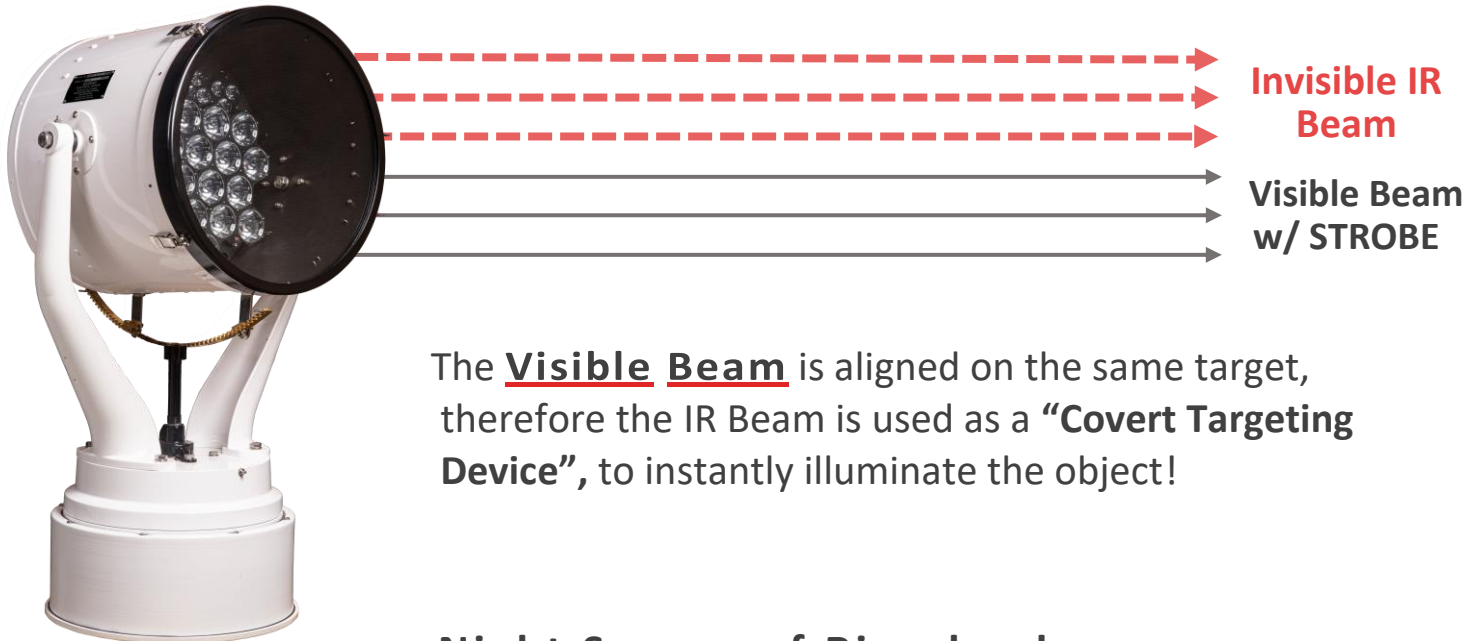
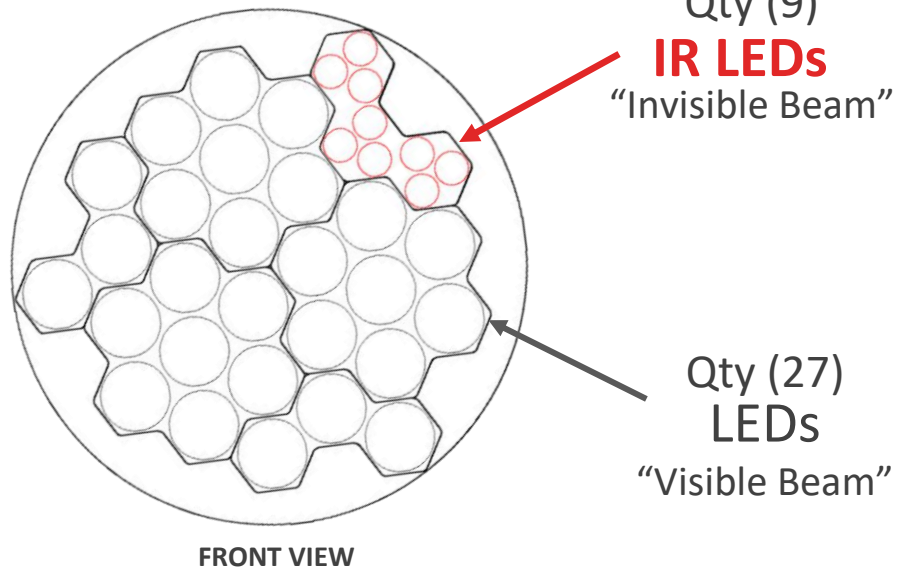




# Infrared (IR) LEDs provide built-in Night Vision

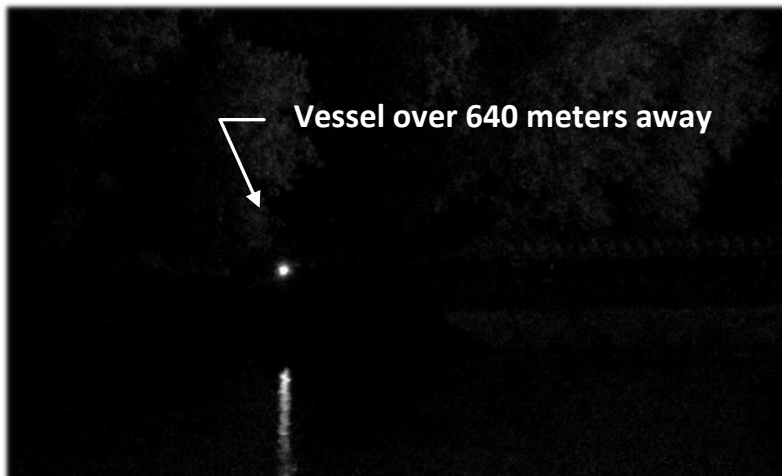
## NIGHT VISION CAPABILITY

An invisible beam, undetectable to the human eye, covertly lights up objects in total darkness, and they appear like daylight on a camera monitor



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 of Riverbank

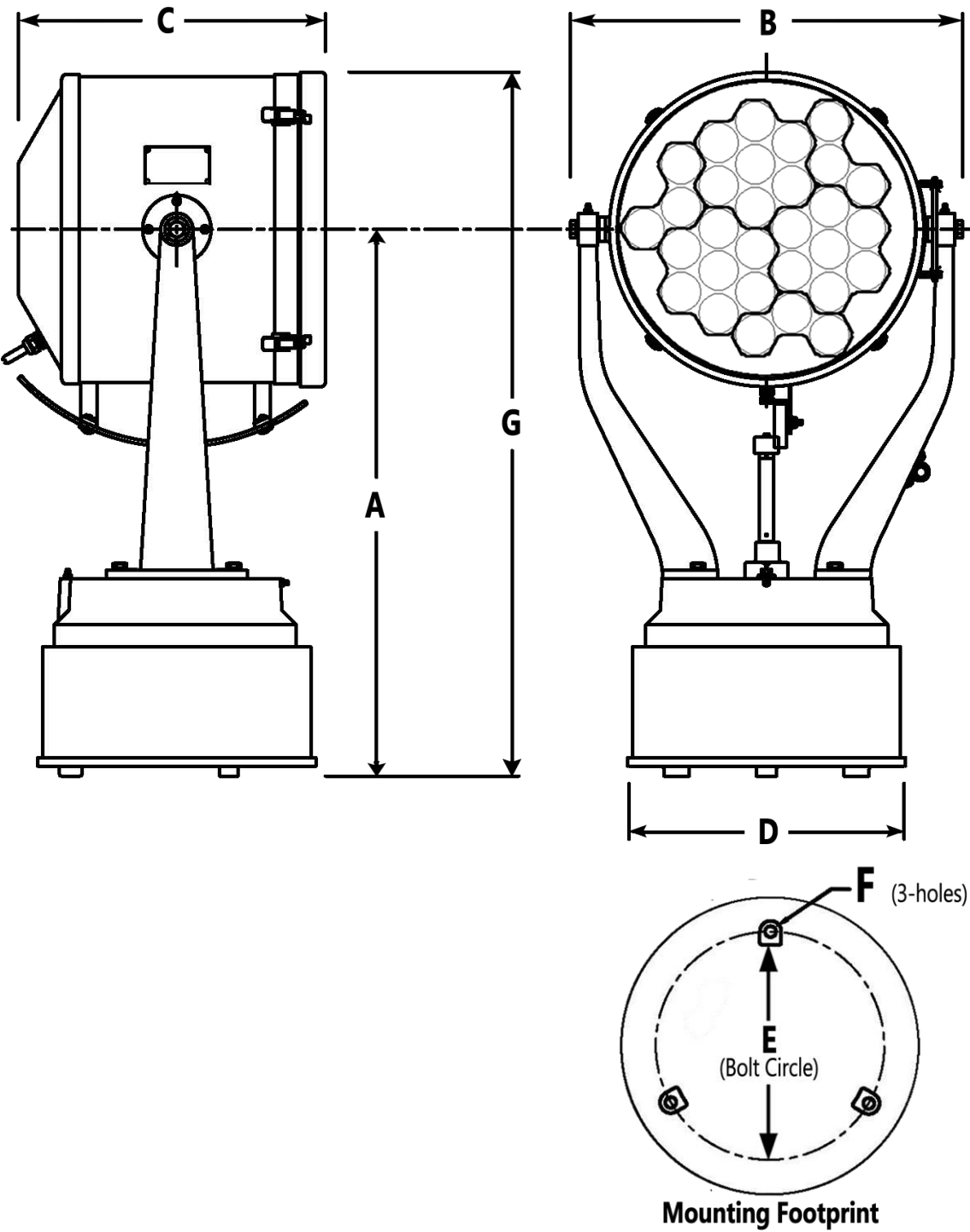


in Total Darkness



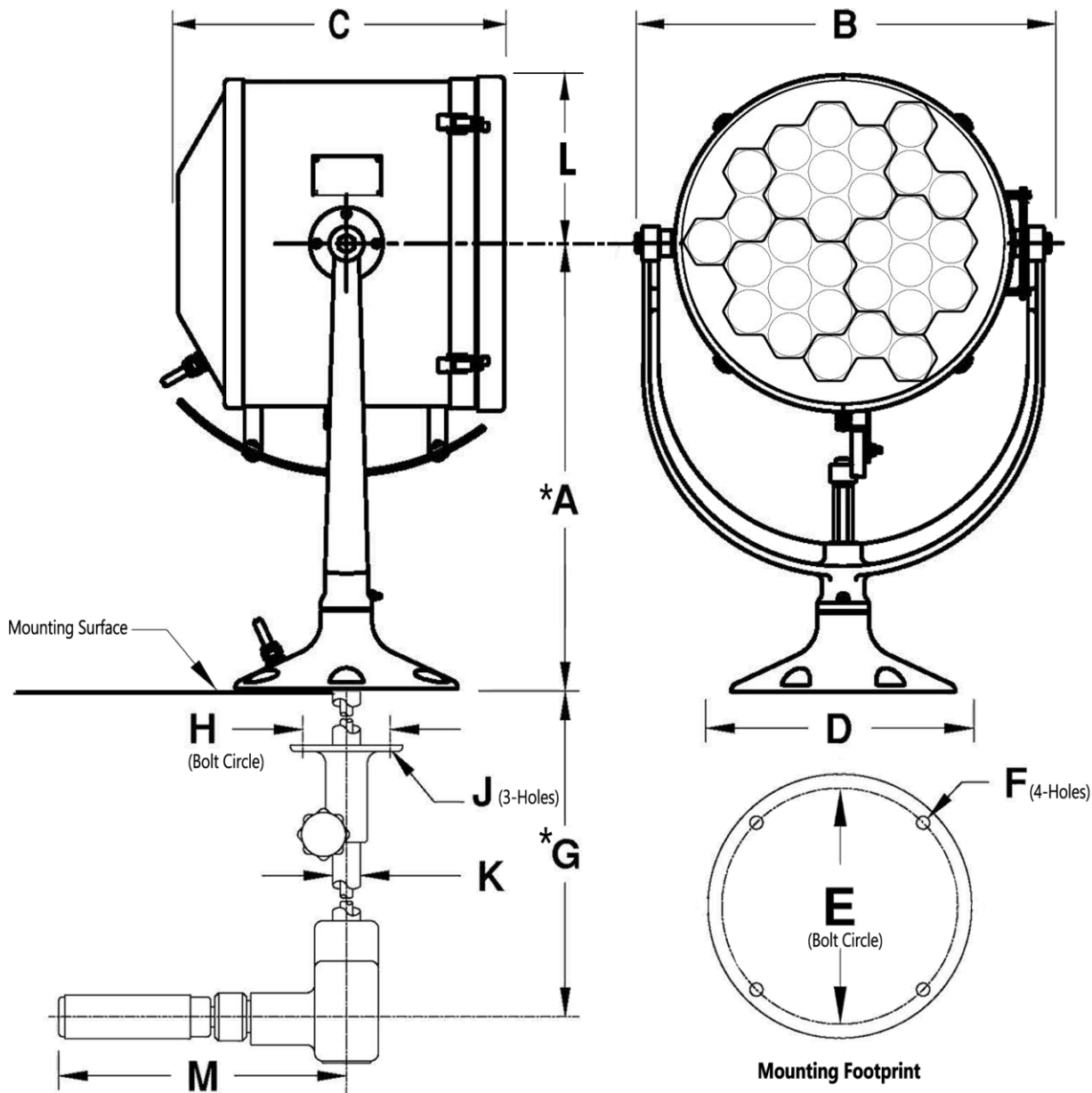
with (IR) Beam ON!

# Electric Joystick Control Dimensions

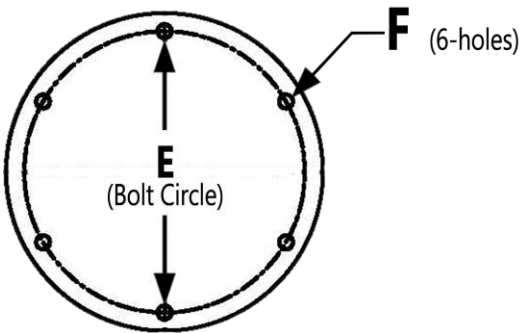
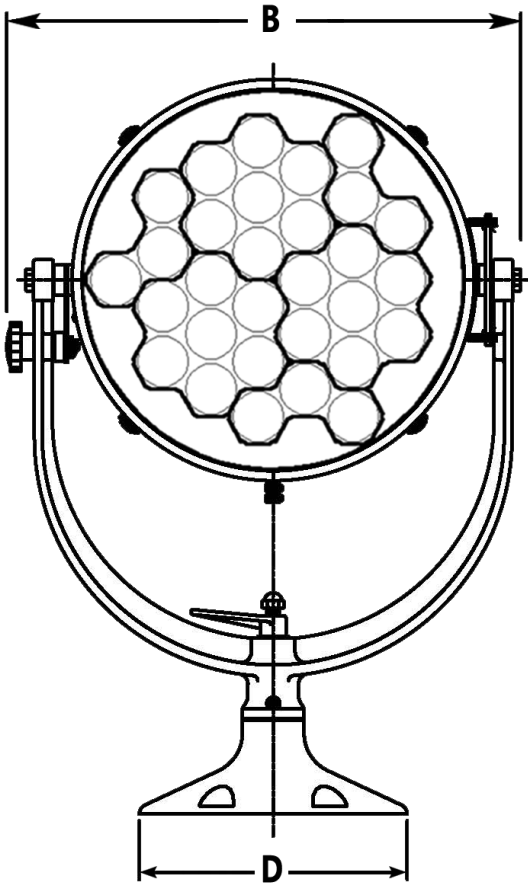
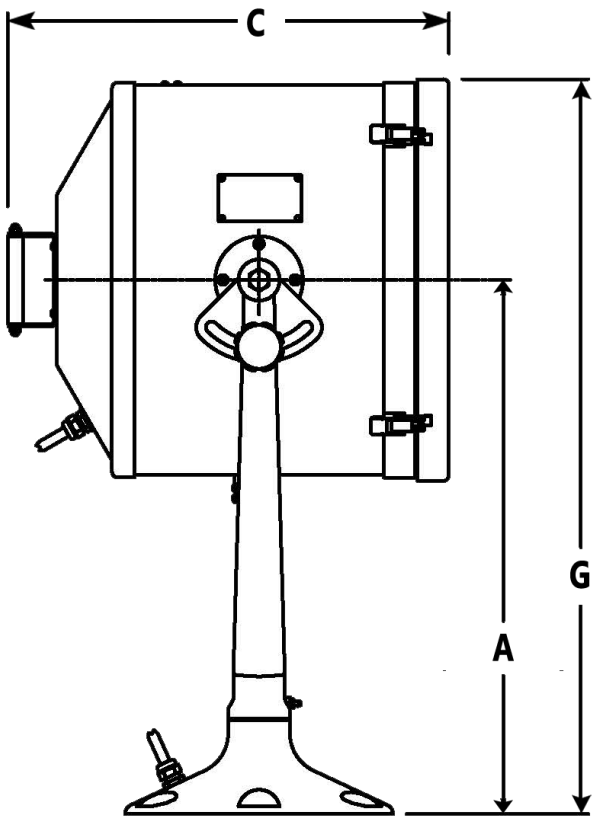


DIM	A	B	C	D	E	F	G
inches	33.88	25	19	Ø17.25	Ø13.25	Ø.562	43.62
mm	860	635	482	Ø438	Ø336	Ø14.275	1107

## Remote Lever-Gear Control Dimensions

[illegible]

# Local Handle Control Dimensions



Mounting Footprint

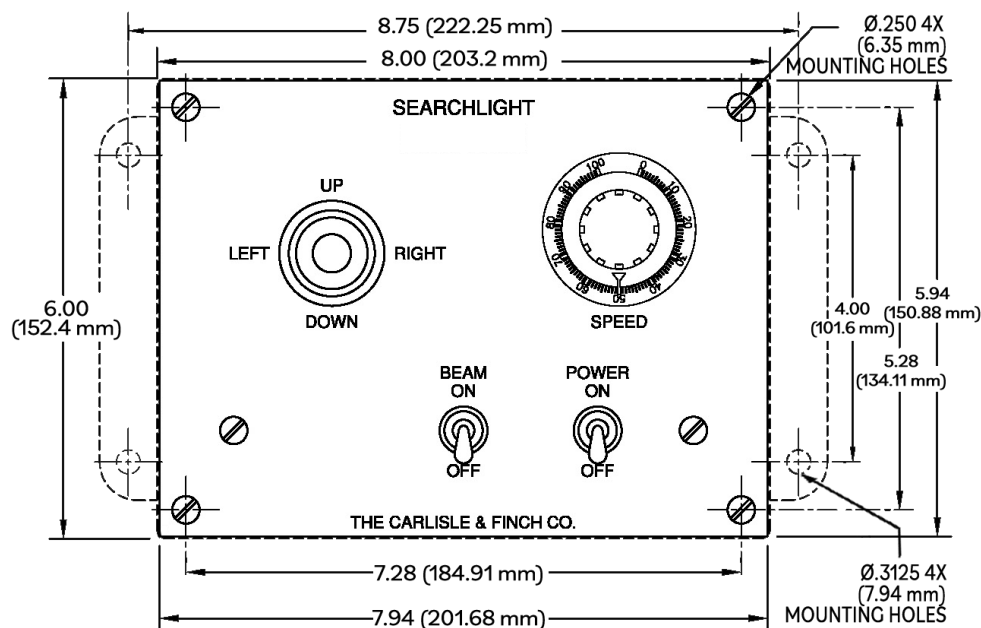
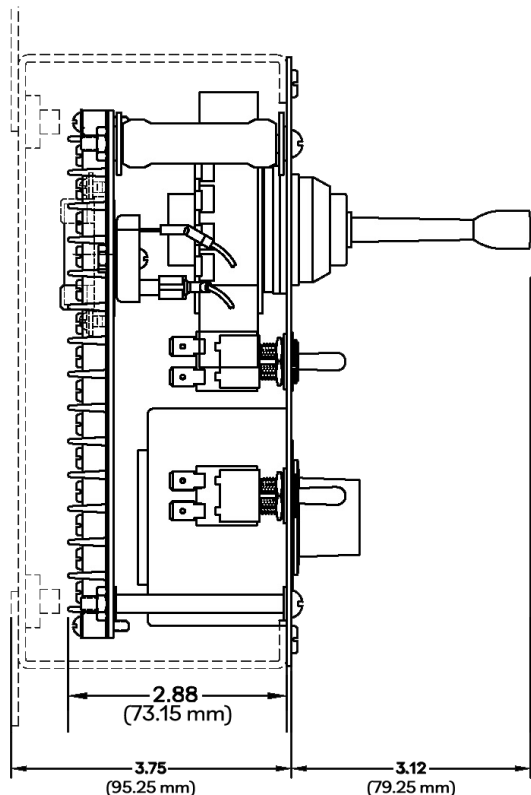
DIM	A	B	C	D	E	F	G
inches	25.94	25	21.41	Ø13	Ø11.5	Ø.562	35.69
mm	658	635	543	Ø330	Ø292	Ø14	906



## Controller Dimensions

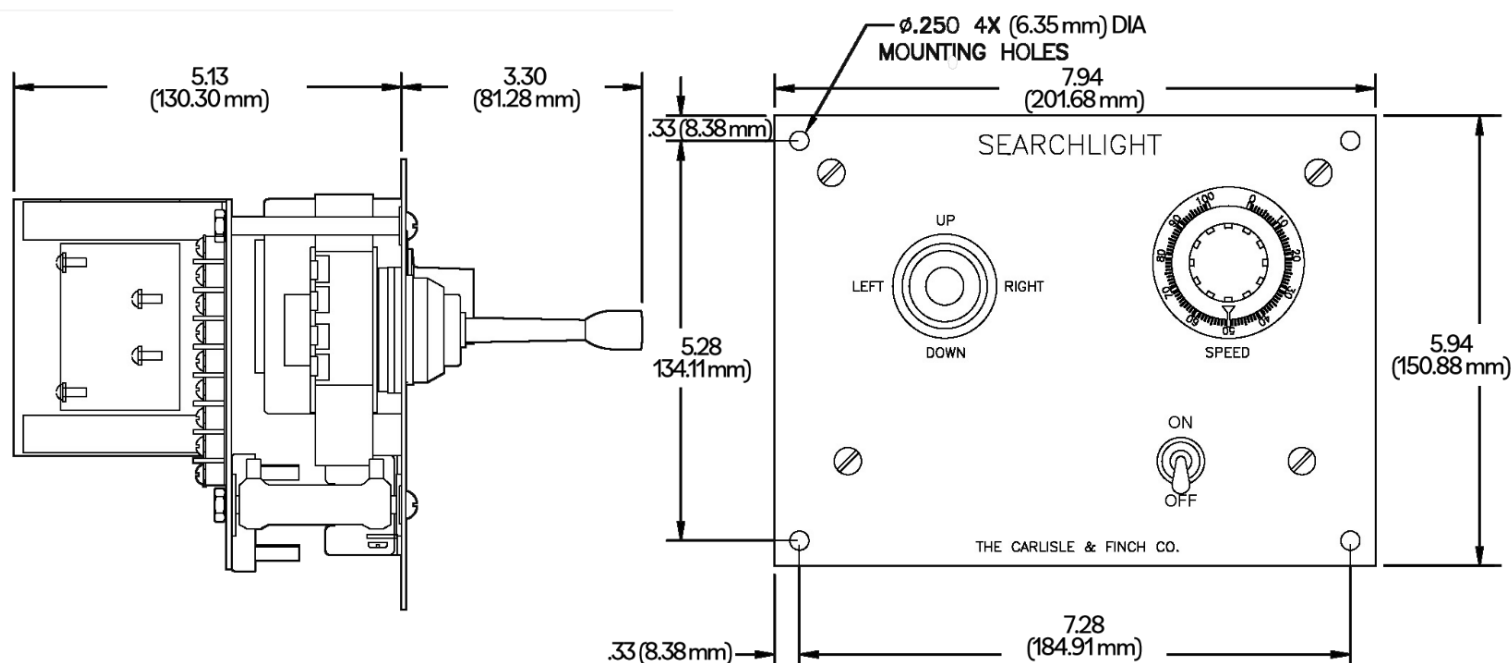
### Model C5777-S-2 Joystick Controller (115 VAC-only)

Includes 8-Way Switch (UP, DOWN, RIGHT, LEFT, and FOUR DIAGONAL POSITIONS), Beam-Speed Dial (Changes Speed throughout a continuous spectrum) and Visible Beam ON/OFF Switch.



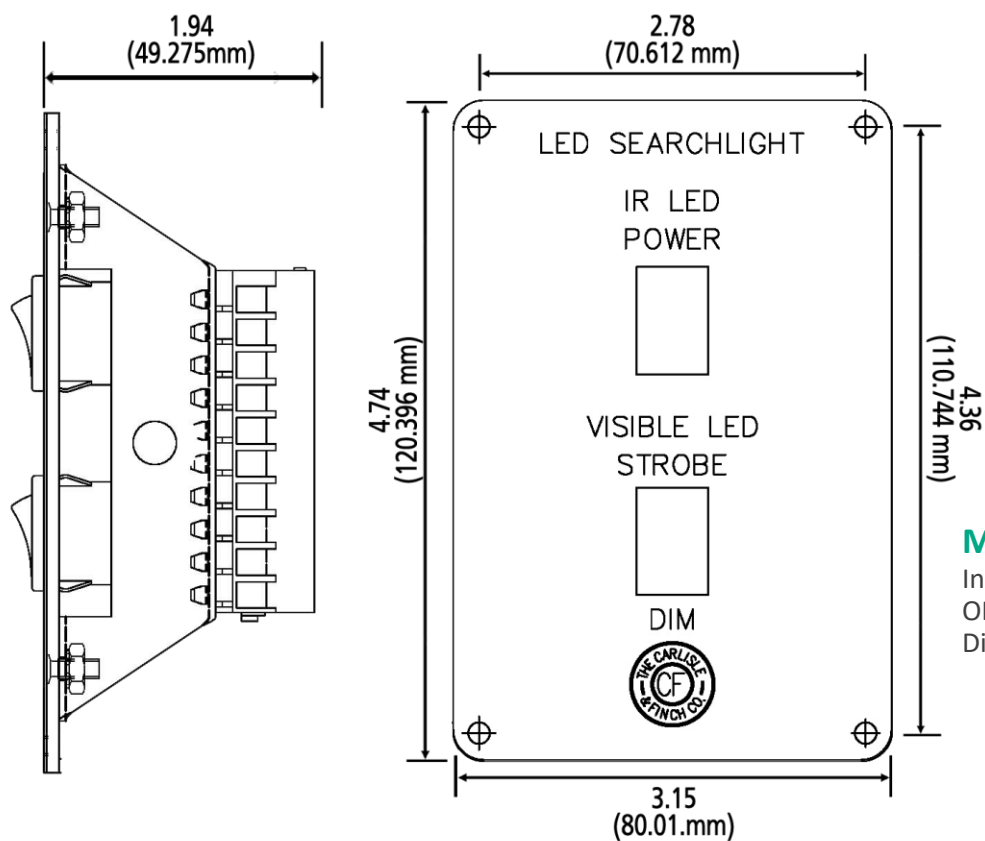
### Model C5777-S-230 Joystick Controller (230 VAC-only)

Includes 8-Way Switch (UP, DOWN, RIGHT, LEFT, and FOUR DIAGONAL POSITIONS), Beam-Speed Dial (Changes Speed throughout a continuous spectrum) and Visible Beam ON/OFF Switch.



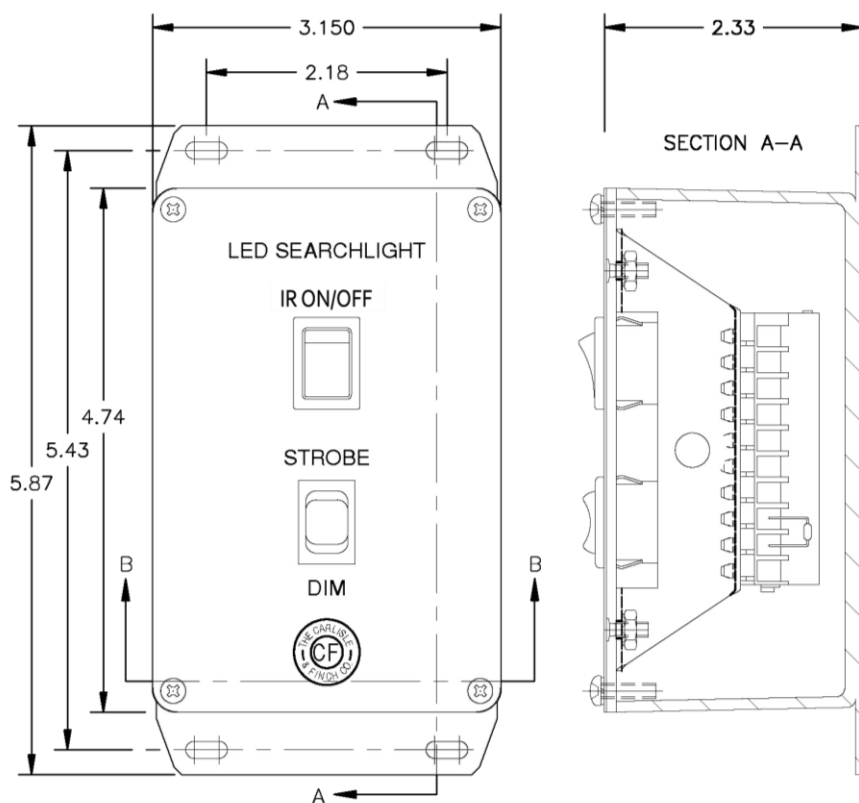


## Controller Dimensions



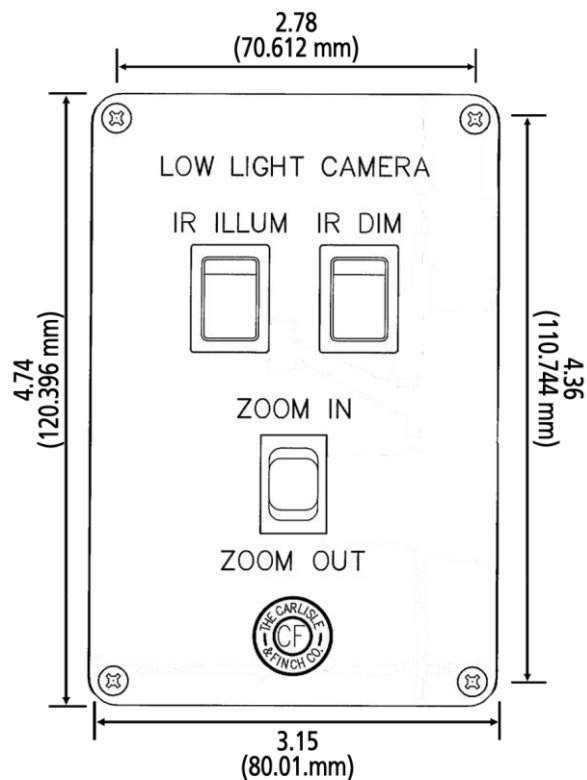
### Model C2-12R Controller

Includes Infrared (IR) Beam ON/OFF Switch, Strobe Switch and Dimming Switch.



### C2-12 Controller

includes Beam ON/OFF, Strobe, and DIM switches

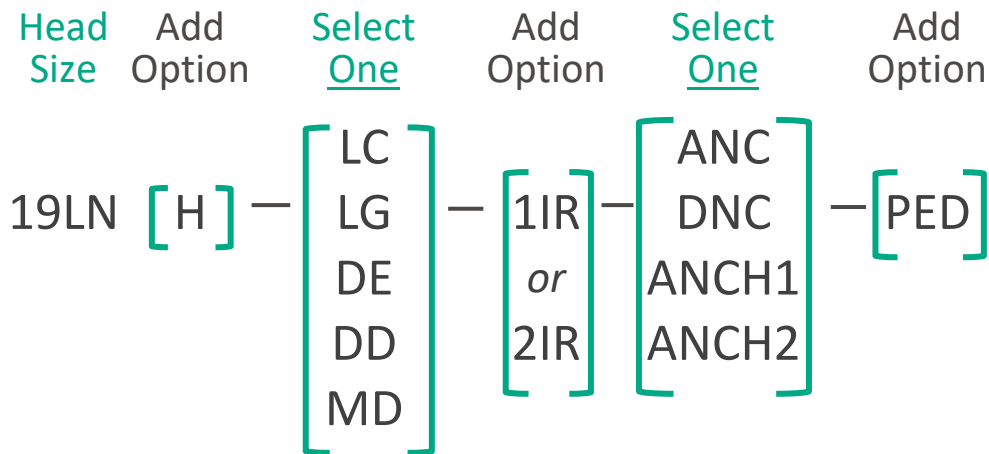


### C3-10 Controller

includes IR Beam ON/OFF/DIM and Zoom IN/OUT switches



# 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
ANCH1	115 VAC (with Anti-Icing Heaters)
ANCH2	230 VAC (with Anti-Icing Heaters)

## OPTIONS

H	"Wall of Light" LEDs
1IR	One (1) Infrared POD
2IR	Two (2) Infrared PODs
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 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. 19LN-DE-ANC becomes **19L-DE-ANC**).

To specify optional **"SLIP-RINGS"** consult factory:

Slip Rings provide continuous, uninterrupted horizontal motion with no stop points.

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

### Example #1

**Model Number: 19L-LG-ANC-PED**

19-inch (483mm) diameter, Remote Lever-Gear Control, 115/230 VAC and Taller Pedestal option

### Example #2

**Model Number: 19LNH-DE-IR-AH1**

19-inch (483mm) diameter, Wall of Light LEDs option, Joystick Electric Control, Infrared POD option, 115 VAC with Anti-Icing Heaters and Strobe option