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CLASSIC-STYLE NightFINDER [™]

"There is not the slightest indication that nuclear energy will ever be obtainable. It would mean that the atom would have to be shattered at will." —Albert Einstein





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Beam Intensity 3.5° Beam Option	2,800,000 Candela 1 Lux at 1673 Meters (approx.)
8.5° Beam Option	741,000 Candela 1 Lux at 860 Meters (approx.)
Color Temperature	5700 Kelvin
Controls	Joystick Electric Control, Remote Lever-Gear Control, or Local Handle Control
Environmental	IP56
Finish	Salt-resistant and Scratch-resistant Powder Coat (White, Black, Grey, and Custom) or Chrome Finish
LED Emitter Life	Over 20,000 Hours
Light Energy	4900 Lumens
Material	Brass and Stainless Steel Joystick Electric Control
Power Consumption	85 Watts
Voltages	12VDC, 24VDC, 115VAC, or 230VAC
OPTIONS	

OPTIONS

Anti-icing Heater	Thermostatically-controlled heaters in the Base. (motorized base-only)	F
Azimuth Indicator	LCD Panel displays beam aiming position in degrees. (motorized base-only)	Rel Leve Co
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Remote ver-Gear Control



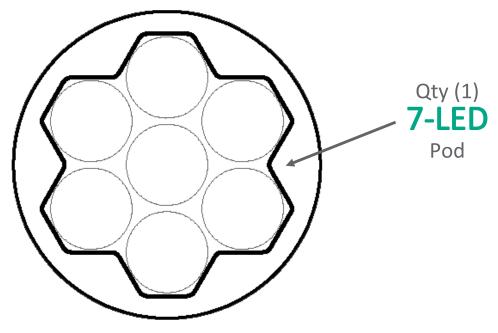
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800-725-3787



Local Handle Control

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



Front View

- Multiple LED Redundancy: There are 7 Individual LEDs (i.e., light sources.) If one fails, there are <u>6 more</u> producing a bright beam.
- 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 20,000+ hours, there are approximately <u>80</u> Halogen searchlight failures for every LED searchlight due to lamp-life alone (i.e., 20,000 ÷ 250 = 80 failures.)

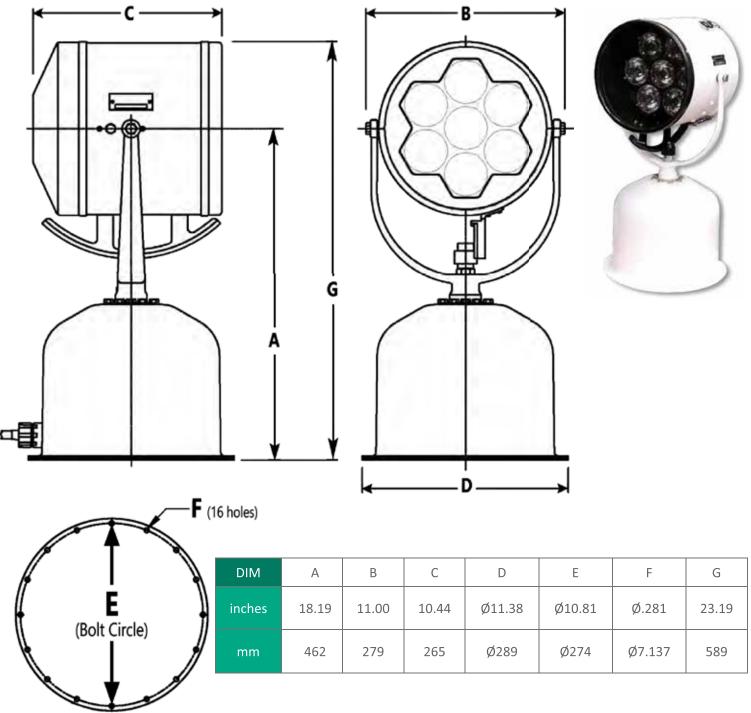
"This 'telephone' has too many shortcomings to be seriously considered as a means of communication. The device is inherently of no value to us." —Western Union internal memo, 1876



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ELECTRIC JOYSTICK CONTROL DIMENSIONS



Mounting Footprint

"Reagan doesn't have that presidential look."

—United Artists executive after rejecting Reagan as lead in the 1964 film The Best Man

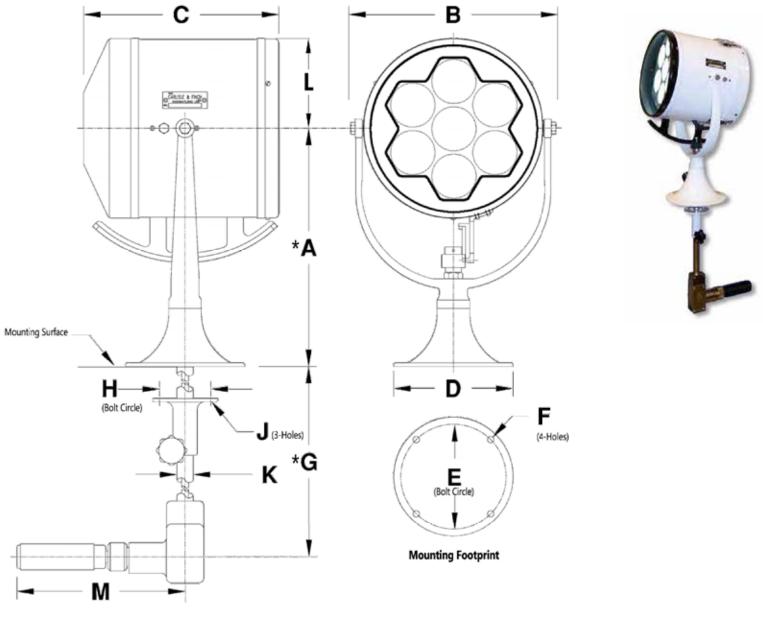


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R

REMOTE LEVER-GEAR CONTROL DIMENSIONS



DIM	*A	В	С	D	E	F	* G	Н	J	К	L	М
inches	12.75	11.00	10.00	Ø6.38	Ø5.62	Ø.34	11.38	Ø2.75	Ø.28	Ø.88	4.81	9.00
mm	324	279	254	Ø162	Ø143	Ø9.00	289	Ø70	Ø7.00	Ø22	122	229
Note: Dimension "A" is the standard Searchlight Height, and Dimension "G" is the standard Control							ontrol					

Length. These two dimensions can be custom. Consult Factory for exact customer requirements.



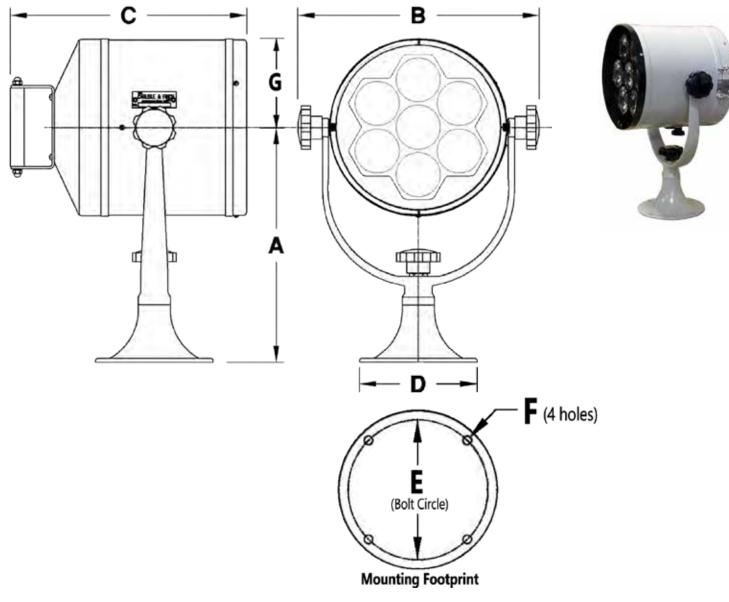
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BR

LOCAL HANDLE CONTROL DIMENSIONS



DIM	А	В	С	D	E	F	G
inches	12.75	13.12	12.00	Ø6.38	Ø5.62	Ø.34	4.81
mm	324	334	305	Ø162	Ø143	Ø9	122

"Rail travel at high speed is not possible because passengers, unable to breathe, would die of asphyxia."

—Dr. Dionysius Lardner, 1830



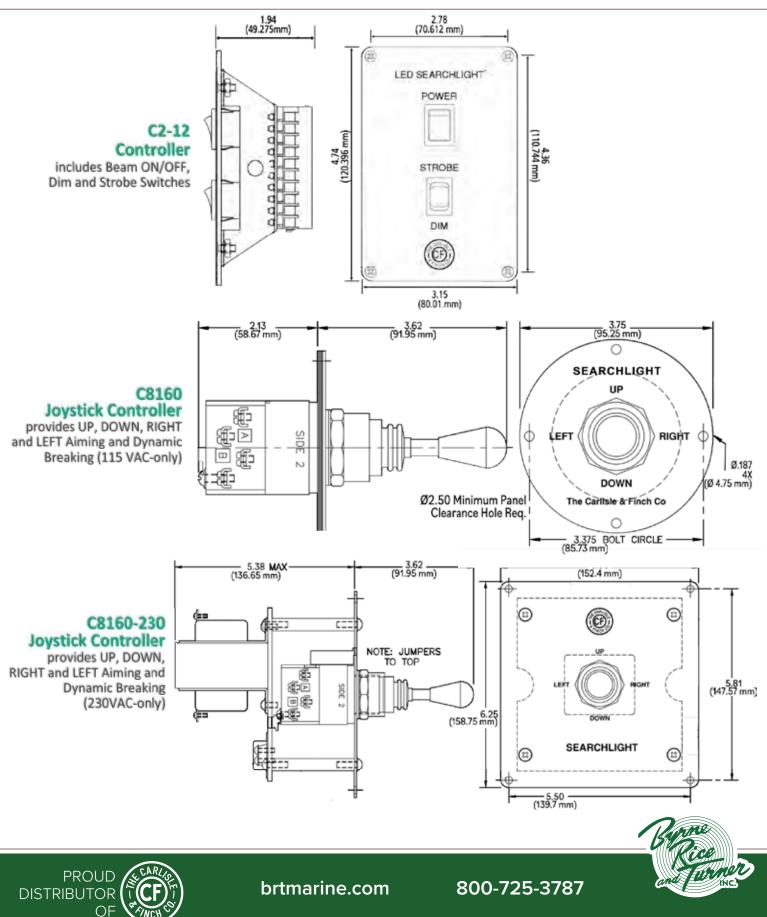


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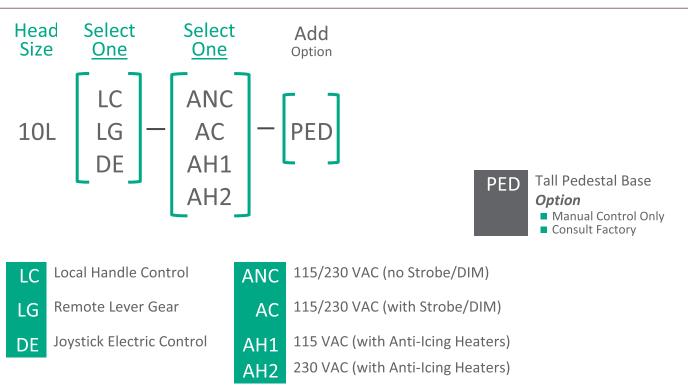
PR,

CONTROLLER DIMENSIONS



R

HOW TO SPECIFY SEARCHLIGHT MODEL NUMBER



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

Example #1	Model Number: 10L-LG-ANC-PED
10-inch (254mm)	diameter, Remote Lever-Gear Control, 115 VAC and Tall
Pedestal option	

Example #2

Model Number: 10L-DE-AH2

10-inch (254mm) diameter, Joystick Electric Control, 230 VAC and Anti-Icing Heaters

"We don't like their sound, and guitar music is on the way out."

—Decca Recording Company on declining to sign the Beatles, 1962



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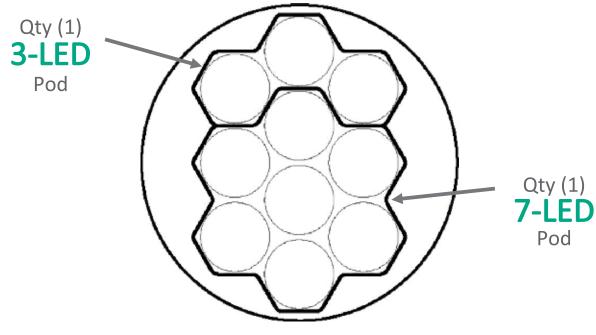
Beam Intensity 3.5° Beam Option	4 Million Candela 1 Lux at 2000 Meters (approx.)	
8.5° Beam Option	1,050,000 Candela 1 Lux at 1024 Meters (approx.)	R CAR
Color Temperature	6200 Kelvin	
Controls	Joystick Electric Control, Remote Lever-Gear Control and Local Handle Control	Y
Environmental	IP56	
LED Emitter Life	20,000+ Hours	
Light Energy	7000 Lumens Jo	oystick Electric Control
Material/Finish	Brass and Stainless Steel with Salt-resistant, Scratch-resistant white powder coat finish	Á
Modular Redundancy	Each pod has its own electronics, so if one fails, a bright beam is still projected (Pg.2)	
Power Consumption	120 Watts	Varian P
Voltages	12VDC, 24VDC, 110VAC – 277VAC	
OPTIONS		A •
Anti-icing Heater	Thermostatically-controlled heater prevents ice build- in cold climates (motorized base-only)	-up Remote Lever-Gear
Azimuth Indicator	LCD Panel displays horizontal aiming position in degre (motorized base-only)	ees Control
Finishes	Custom Colors and Sparkling Chrome available	
High Powered Strobe	Disorients and denies night vision of intruder and transforms searchlight into a Nonlethal Weapon	<u> </u>
Infrared Night Vision	Integral Infrared (IR) LEDs covertly light up objects, which appear like daylight on a camera monitor. 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	d
Wall of Light LEDs	Extremely wide beam at short range, illuminates areas where the narrower beam cannot service (Pg.3)	S Local Handle Control





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



Front View

- Multiple LED Redundancy: There are 10 Individual LEDs (i.e., light sources.) If one fails, there are <u>9 more producing a bright beam.</u>
- 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 20,000+ hours, there are approximately <u>80</u> Halogen searchlight failures for every LED searchlight due to lamp-life alone (i.e., 20,000 ÷ 250 = 80 failures.)

"I think there is a world market for maybe five computers."

—Thomas Watson, chairman of IBM, 1943



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

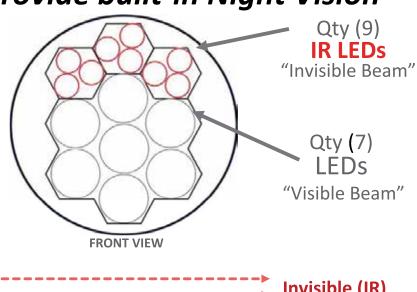
Imagine a passenger suddenly falls overboard on a marine vessel. Using the auxiliary LEDs for "Search and Rescue", an operator can instantly direct a powerful "Wall of Light", wider than a football field, anywhere around the vessel to save the person! This wide beam is also extremely effective for "Vessel 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.

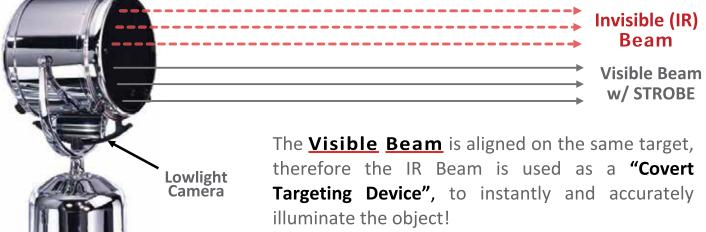


12-inch / 305mm LED SEARCHLIGHT Infrared (IR) LEDs provide built-in Night Vision

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!





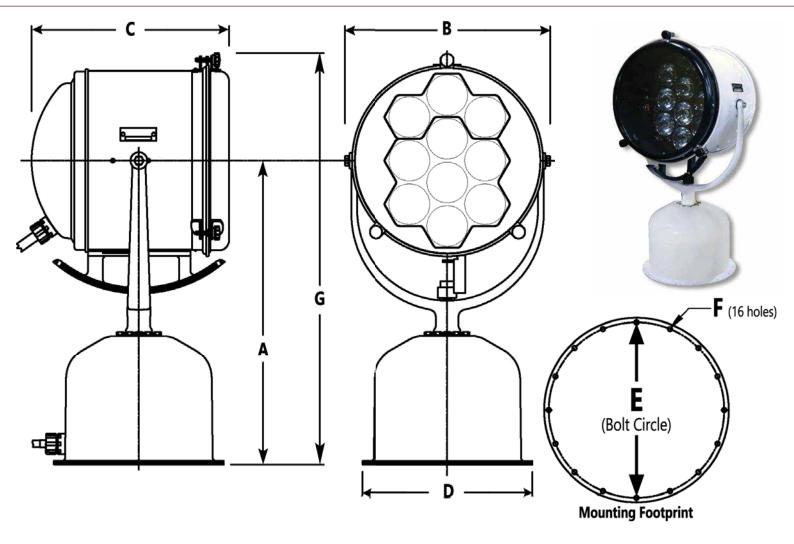
Night Scenes on Riverbank



brtmarine.com



ELECTRIC JOYSTICK CONTROL DIMENSIONS



DIM	А	В	С	D	Е	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

"X-rays will prove to be a hoax."

-Lord Kelvin, President of the Royal Society, 1883



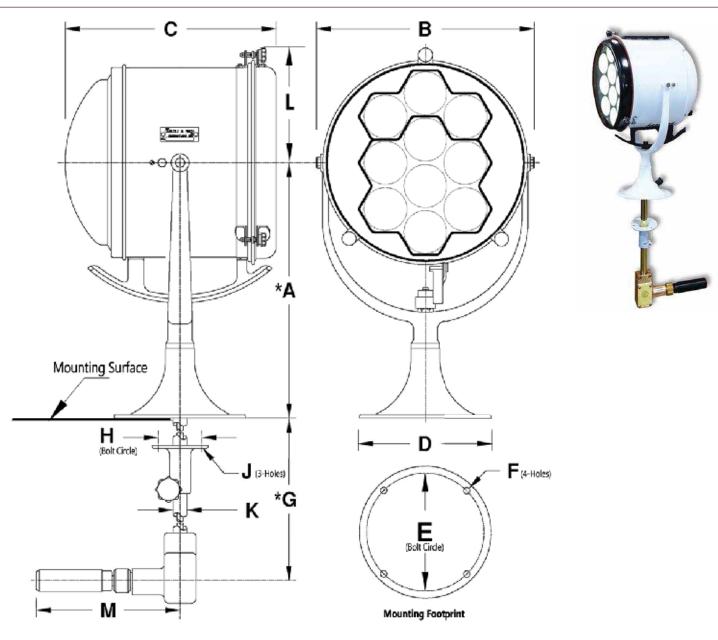
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R

REMOTE LEVER-GEAR CONTROL DIMENSIONS



DIM	*A	В	С	D	E	F	* G	Н	J	K	L	Μ
inches	15.94	13.5	13.25	Ø8.25	Ø7.38	Ø.41	10.88	Ø2.75	Ø.28	Ø.88	7.28	9.00
mm	405	343	337	Ø210	Ø187	Ø10	276	Ø70	Ø7	Ø22	184	229
		1	1									

Note: Dimension "A" is the standard Searchlight Height, and Dimension "G" is the standard Control Length. These two dimensions can be custom. Consult Factory for exact customer requirements.



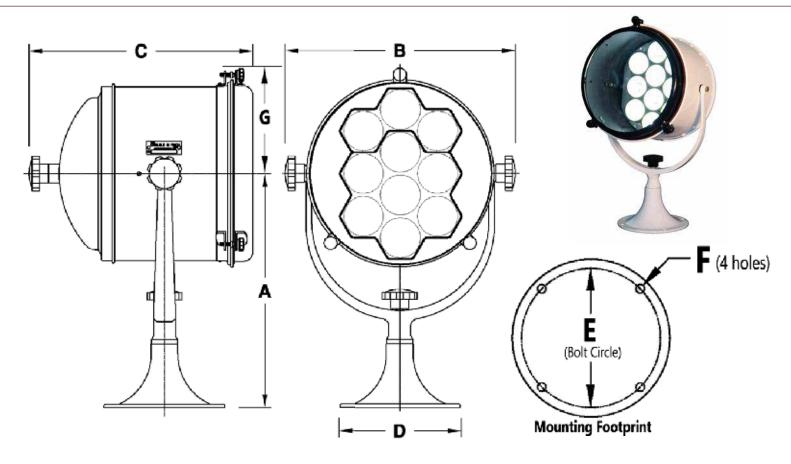
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800-725-3787



BR

LOCAL HANDLE CONTROL DIMENSIONS



DIM	А	В	С	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

"Everyone acquainted with the subject will recognize it as a conspicuous failure."

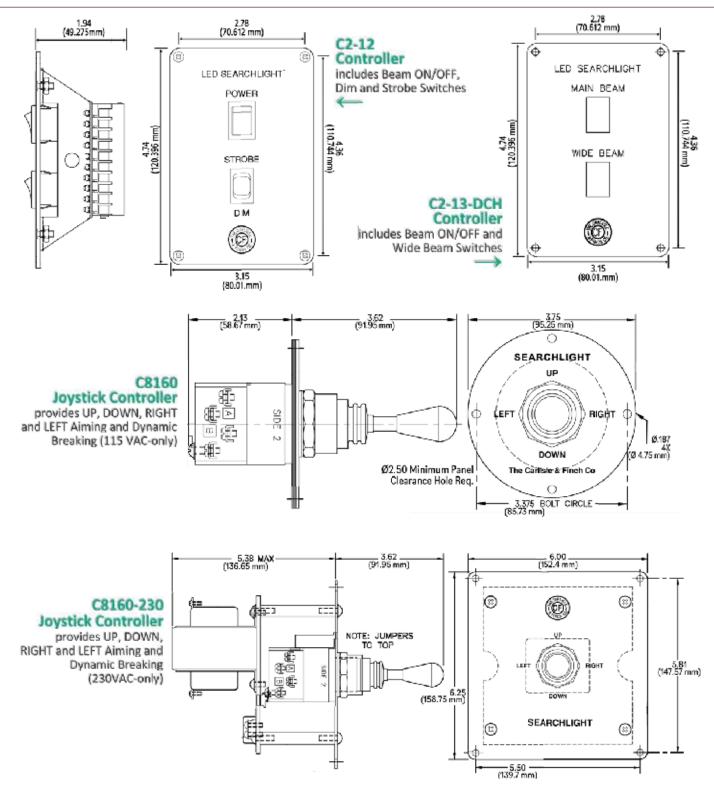
—Henry Morton, president of the Stevens Institute of Technology, on Edison's light bulb, 1880



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CONTROLLER DIMENSIONS





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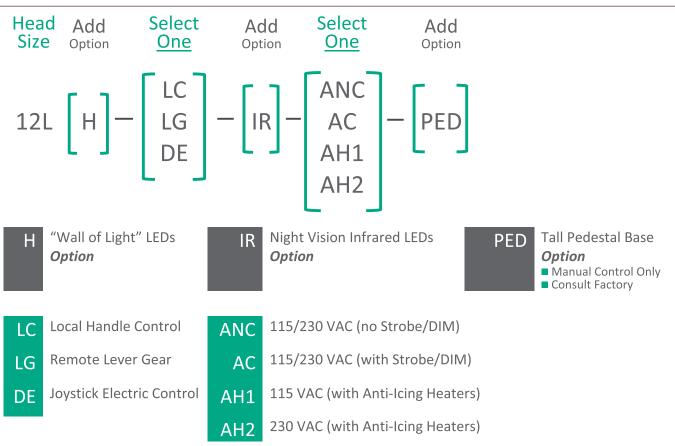
PROUD

OF

DISTRIBUTOR

R

HOW TO SPECIFY SEARCHLIGHT MODEL NUMBER



<u>Note</u>: 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) Pedestal option	diameter, Remote Lever-Gear Control, 115 VAC and Tall
Example #2	Model Number: 12L-DE-AH2

12-inch (305mm) diameter, Joystick Electric Control, 230 VAC and Anti-Icing Heaters

"It'll be gone by June."

-Variety Magazine on Rock n' Roll, 1955





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Beam Intensity 3.5° Beam Option	12 Million Candela
olo boull option	1 Lux at 3464 Meters (approx.)
8.5° Beam Option	3,150,000 Candela 1 Lux at 1774 Meters (approx.)
Color Temperature	6200 Kelvin
Controls	Joystick Electric Control, Remote Lever-Gear, or Local Handle
Environmental	IP56
LED Emitter Life	20,000+ Hours
Light Energy	21,000 Lumens Joystic
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
OPTIONS	
Anti-icing Heater	Thermostatically-controlled heaters prevent ice build-up in cold climates
Azimuth Indicator	LCD panel displays horizontal beam aiming position in degrees
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 LEDsWide beam at short range, illuminates areas where
the narrower long-distance beam cannot service (Pg.3)



Joystick Electric Control



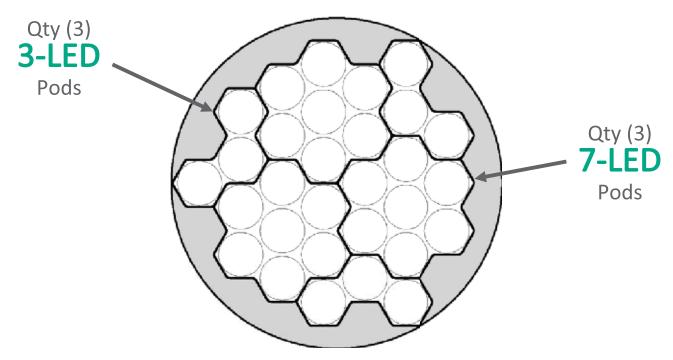


Local Handle Control



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



Front View

- 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 20,000+ hours, there are approximately <u>80</u> Halogen searchlight failures for every LED searchlight due to lamp-life failure alone (i.e., 20,000 ÷ 250 = 80 failures.)

"A rocket will never be able to leave the Earth's atmosphere."

–New York Times, 1936





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"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.

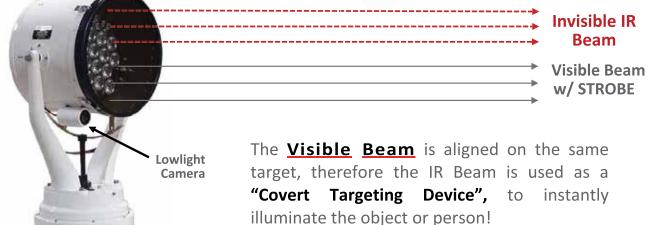


Infrared (IR) LEDs provide built-in Night Vision

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. Also greatly enhances Night Vision Goggles!





Night Scenes of Riverbank

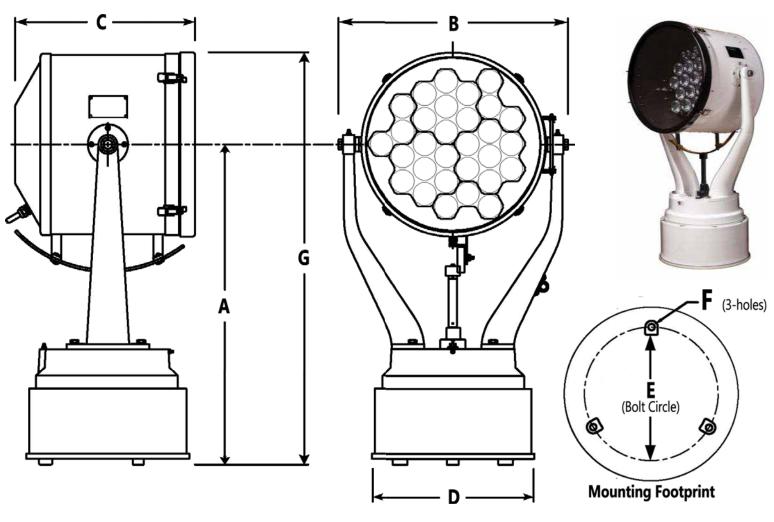




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ELECTRIC JOYSTICK CONTROL DIMENSIONS



DIM	А	В	С	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

"The horse is here to stay but the automobile is only a novelty—a fad." —The president of the Michigan Savings Bank advising Henry Ford's lawyer not to invest in the Ford Motor Co., 1903

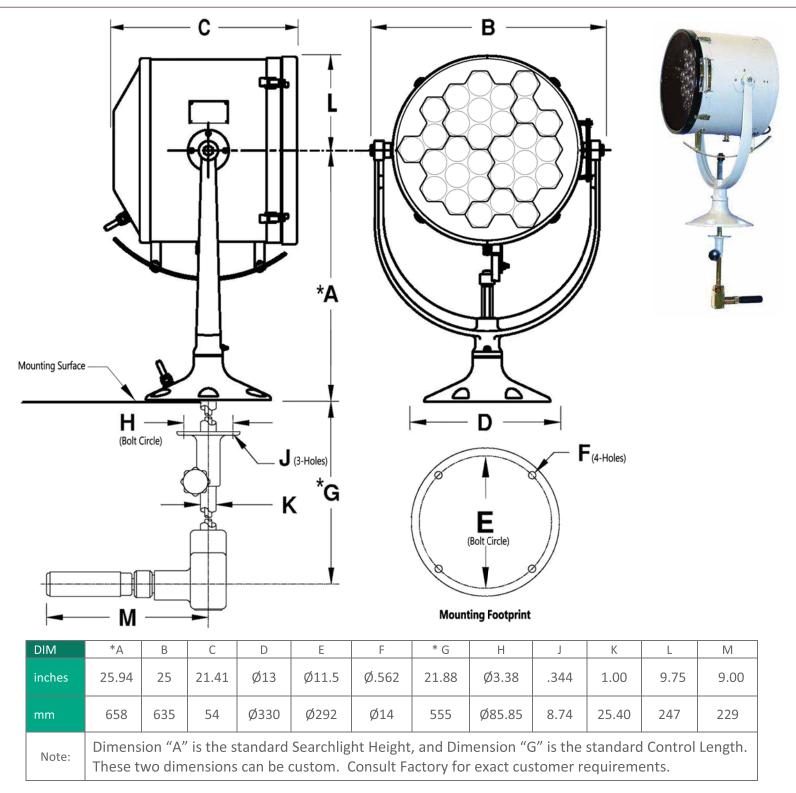
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B_R

REMOTE LEVER-GEAR CONTROL DIMENSIONS





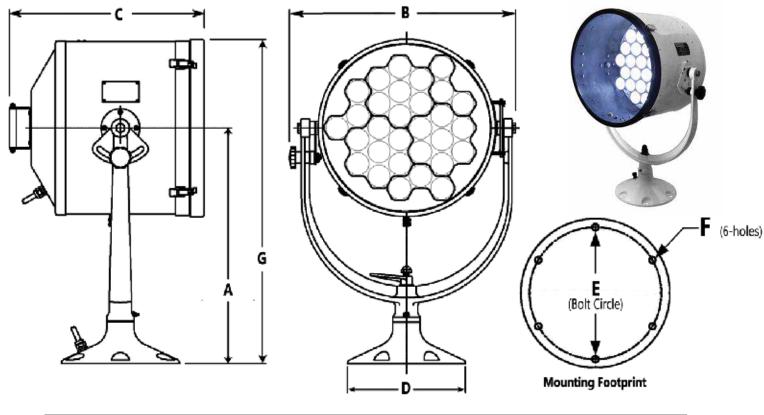
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LOCAL HANDLE CONTROL DIMENSIONS



DIM	А	В	С	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

"Television won't last because people will soon get tired of staring at a plywood box every night."

—Darryl Zanuck, movie producer, 20th Century Fox, 1946



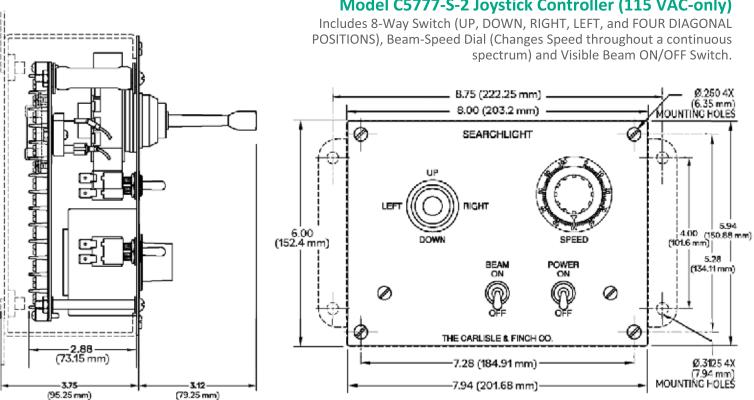
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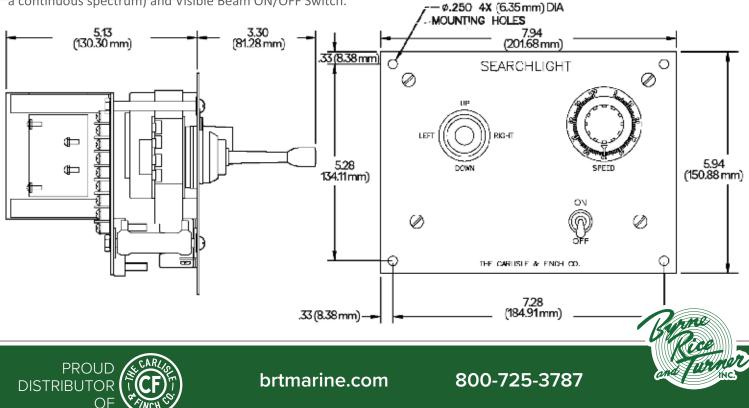
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CONTROLLER DIMENSIONS

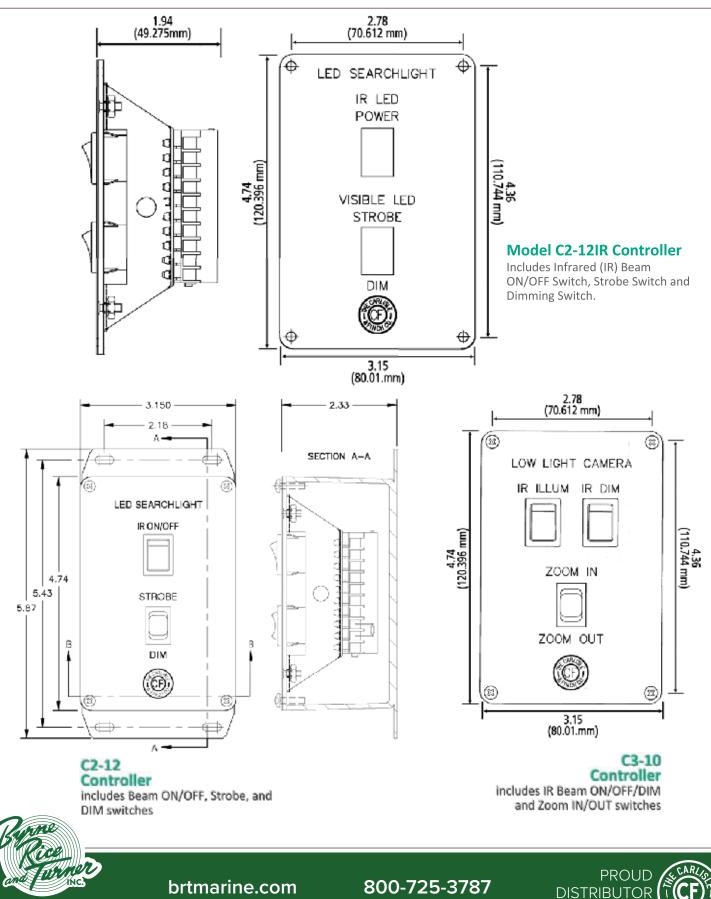


Model C5777-S-230 Joystick Controller (230 VAC-only)

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.



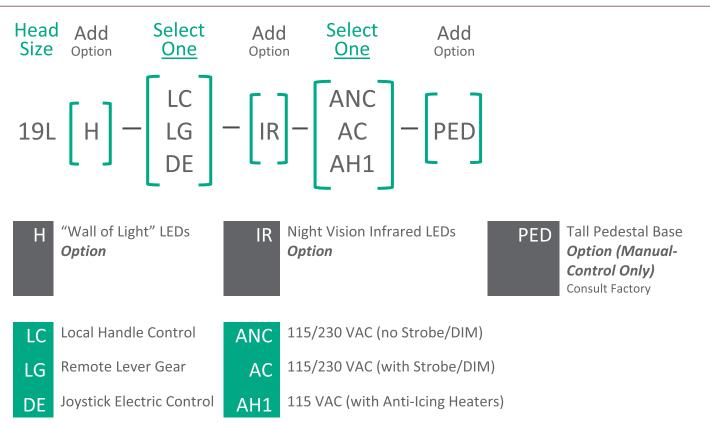
CONTROLLER DIMENSIONS



OF

R

HOW TO SPECIFY SEARCHLIGHT MODEL NUMBER



<u>Note</u>: 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) Pedestal option	diameter, Remote Lever-Gear Control, 115 VAC and Tall				
Example #2	Model Number: 19LH-DE-IR-AH1				
19-inch (483mm) diameter, Wall of Light LEDs option, Joystick Electric					

Control, Infrared LEDs option, 115 VAC and Anti-Icing Heaters

"No one will pay good money to get from Berlin to Potsdam in one hour when he can ride his horse there in one day for free."

—King William I of Prussia, on trains, 1864



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LED WINDFARM SEARCHLIGHT

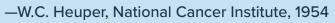


Windfarm

features include extended vertical range to point "straight up" to illuminate Turbine, and LED pods on each side provide a <u>100 meter wide</u> beam at short range, to illuminate critical work areas on Turbine platform.

Beam Intensity	4 Million Candlepower (candela)	
Distance Serviced	1 Lux at 2000 Meters (approx.)	Straight † Up
Wide Beam Pattern	100 Meters Wide x 150 Meters Long (see p.3)	
Power Consumption Main Beam Wide Beam 	n 120 Watts 100 Watts	
Color Temperature	6200 Kelvin	
Voltages	24VDC (Wide Beam), 115 or 230 VAC (Main Bea m)	
Controls	Joystick Electric Control	
Environmental	IP56	
LED Emitter Life	20,000+ Hours	
Light Energy	7000 Lumens	
Materials/Finish	Brass and stainless steel with salt-resistant, scra tch- resistant powder coat	
Modular Redundan	cy Each pod has its own electronic board (Pg.2)	
Anti-icing Heater	Optional feature to prevent ice build-up in cold climat	tes

"If excessive smoking actually plays a role in the production of lung cancer, it seems to be a minor one."

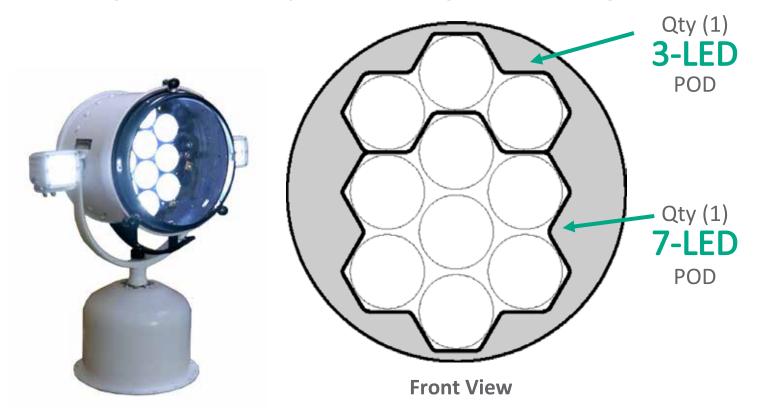




brtmarine.com

LED WINDFARM SEARCHLIGHT

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 <u>9 more</u> 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 fails, 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 20,000+ hours, there are approximately <u>80</u> Halogen searchlight failures for every LED searchlight due to lamp-life alone (i.e., 20,000 ÷ 250 = 80 failures.)



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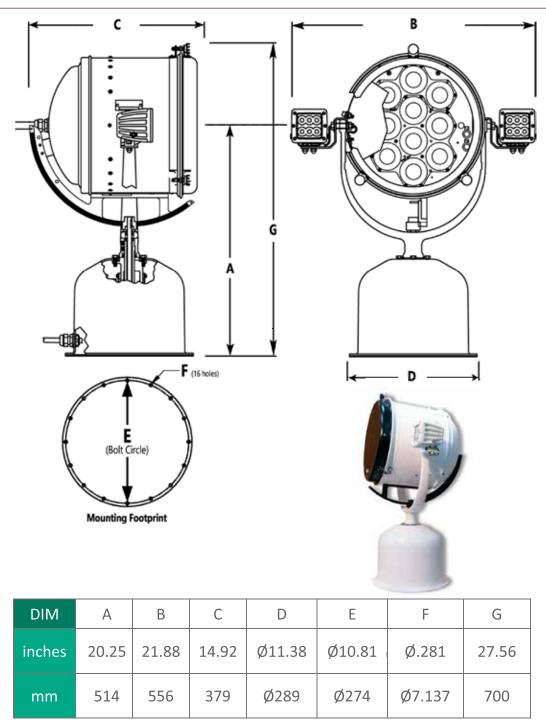
LED WINDFARM SEARCHLIGHT

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

Imagine a passenger suddenly falls overboard. 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 "Illuminating the Wind Turbine", "Seeing Workers at Night", "Docking" etc. This option provides short range wide-beam illumination and long-range search capabilities, combined within one versatile product.



DIMENSIONS (INCHES & MILLIMETERS)



"The wireless music box has no imaginable commercial value. Who would pay for a message sent to no one in particular?"

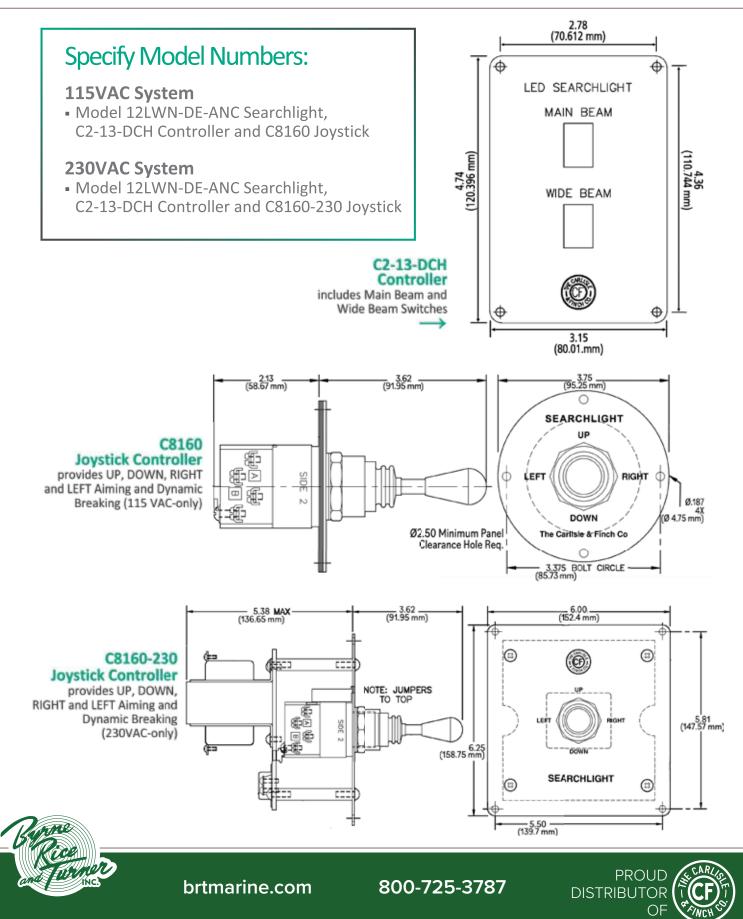
> Associates of David Sarnoff responding to the latter's call for investment in the radio, 1921



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MODEL NUMBERS



R

SLEEK-STYLE XENON SEARCHLIGHT

Beam Intensity	15 Million Candela
Distance Serviced	1 lux at 3873 meters (approx.)
Beam Speed	18° per sec (Fast/Horiz.); 3° per sec (Slow/Horiz.)
Color Temperature	6000 Kelvin
Controls	Proportional Speed Joystick Control (Multiple joystick operation and weatherproof)
Environmental Protection	IP67
Electric Beam-Size Focus	1 to 20° (through continuous spectrum)
Lamp	200 Watt, Xenon Short Arc
Temperature Range	-30° C to +48° C (approx.)
Vertical Span	+30° to -30° (60° approx. total)
Horizontal Span	360° continuous rotation with no stop points NightFINDER™ w/ Embedded
Finish	Marine Grade Aluminum and Stainless Steel Thermal Camera Salt-Resistant, Scratch-Resistant Powder Coat
Reflector	Bullet-Resistant, Precision Electroformed, Nickel Material
Voltage	115VAC/5 Amps <i>or</i> 230 VAC/2.5Amps; 50/60HZ
OPTIONS	
Anti-icing Heater	Thermostatically-controlled heater prevents ice build-up in cold climates
Azimuth Indicator	LCD Panel displays horizontal aiming position in degrees
Detachable IR Filter:	Provides covert surveillance when used with lowlight cameras and NVG's.
High Powered Strobe	Disorients and denies night vision of intruder and transforms searchlight into a Nonlethal Weapon
NightFINDER™	Embedded thermal camera enhances night vision capability, and the searchlight beam and camera track on the same target. (Pg.3 & 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
"And for the tourist wh	no really wants to get away from it all, safaris in Vietnam."

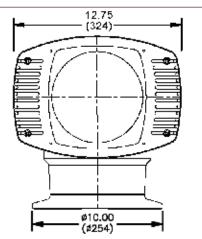
–Newsweek, predicting popular holidays for the late 1960s.

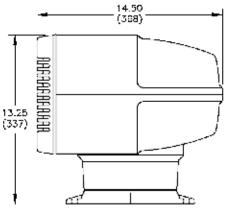


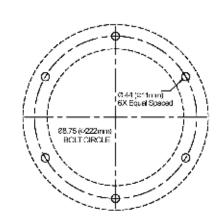
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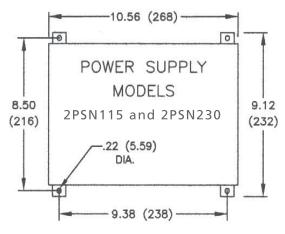
200 WATT DIMENSIONS IN INCHES (mm)



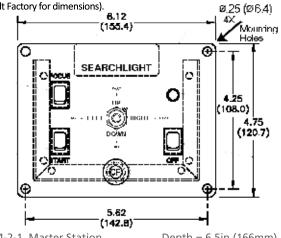




Power Supply: Compact Current-Regulated Electronic Supply includes Universal Power Input Feature, providing 115 Volt AC and 230 Volt AC inputs on the same printed circuit board.



Power Supply 2PSN115 or 2PSN230 Power Supply Weight = 7.5lb (3.4kg) **Joystick Control Stations:** Control Functions: Beam ON/OFF, Beam-size Focus, Proportional-Speed Joystick, and Beam-ON Indicator Light. One Master Station (C4-2-1) is required with each system, and any number of Secondary Stations can be added. If you desire an outdoor Secondary Station, <u>non</u>-recessmounted within console, but enclosed in a Weatherproof Box, specify C4E2M (consult Factory for dimensions).



C4-2-1 Master Station.....Depth = 6.5in (166mm) C4-2M-1 and C4E2M-1-2 Secondary.....Depth = 3.5in (89mm)

Searchlight Standard <i>or</i>	Power Supply	Master	Secondary	Master	Secondary
Inverted-Mount	115VAC or 230VAC	(Indoor)	(Indoor)	(Outdoor)	(Outdoor)
XY2EDE-RF or XY2EDE-BURF	2PSN115 or 2PSN230	C4-2-1	C4-2M-1	C4E2-1-2	

How to specify searchlight system... read across table and select one Searchlight, one Power Supply, one Master Joystick Controller and any number of optional Secondary Joystick Controllers.

Sample Specification

for "Inverted-Mount Searchlight, 230 VAC with (1) Indoor and (1) Outdoor Joystick Controllers, the model numbers are as follows:

(1) XY2EDE-BURF Searchlight, (1) 2PSN230 Power Supply, (1) C4-2-1 Master and (1) C4E2M-1-2 Secondary Station

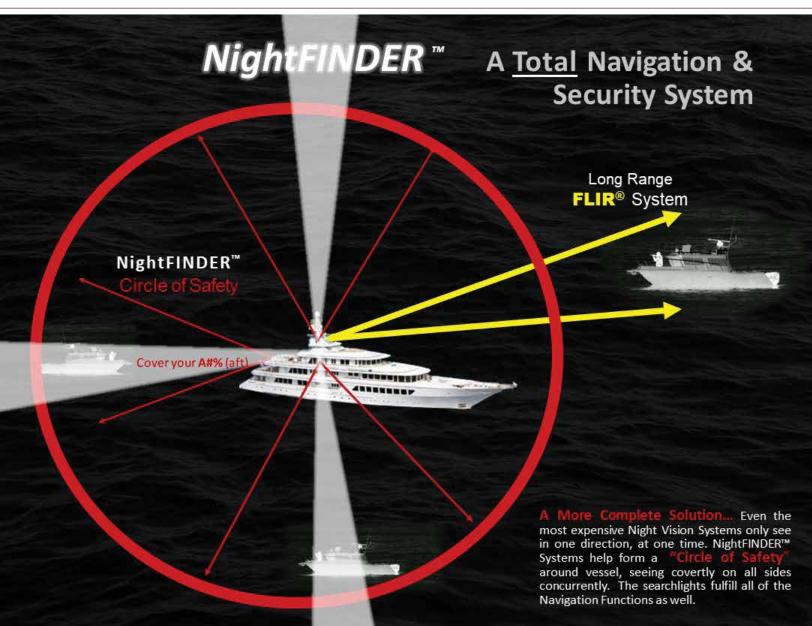


Consult Factory for model numbers of optional Features (Strobe, NightFINDER™, Anti-icing Heaters, Azimuth Indicator, SmartVIEW, etc.)



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NightFINDER™



"There will never be a bigger plane built."

—A Boeing engineer, after the first flight of the 247, a twin engine plane that holds ten people



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NightFINDER™

NightFINDER[™]... a "Covert Targeting Device"

Strobe blinds and disorients Intruder with Nonlethal Force!

> Powerful Nonlethal Weapon

STROBE

Thermal Camera

Camera is used as Covert Targeting Device i.e... "Operator covertly scans horizon with camera, and after Intruder is spotted, searchlight instantly illuminates the target."

"There is no reason for any individual to have a computer in his home." —Ken Olson, president, chairman and founder of Digital Equipment Corporation (DEC), in a talk given to a 1977 World Future Society meeting in Boston



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385mm DIAMETER XENON SEARCHLIGHT



Carlisle & Finch is the standard of the U.S. Navy, U.S. Coast Cuard and U.S. Federal Prisons.

Features

- **Beam Intensity:** <u>45</u> Million Beam Candlepower illuminates an object approximatley 6700 meters away on a clear night!
- **Electric Beam-Size Focus:** Beam can be widened and narrowed remote electrically, throughout a continuous spectrum.
- **Beam-size Focus Knob:** External Knob changes beam-size with no tools, and provides back-up should the focus motor fail.
- Proportional-Speed Joystick: Speed and Direction are controlled by Joystick... i.e. "Move Joystick to the first position and Beam moves slowly... move the Joystick further and it speeds up!".
- "Multi-board Safety Back-up"... electronic power supply design incorporates two boards in parallel, and if one fails, the beam will still operate in back-up mode!
- **Bullet-Resistant Reflector...** Precision-Optic Reflector with virtually indestructible Nickel Material helps prevent breakage if fixture is impacted by bullets or rocks.
- Anti-icing Heater: (optional): Thermostatically-controlled heaters are located in the Arm Pivots, Rack and Base.
- **Azimuth Indicator (optional):** Position Indicator LCD panel displays where the Beam is aimed in degrees.
- **Thermal Camera (optional):** Optional thermal camera added to searchlight provides greater Night Vision capabililty.
- SmartVIEW[™] Control (optional): Micro-processor controls provide switching throughout a Digital BUS Network, and multiple protocols are offered: TCP/IP, RS232. RS422 and RS485.
- **LED Hybrid (optional):** Auxiliary LED Light Modules project a "Wall of Light", 150 Meters Wide and over 230 Meters away, for strategic wide area and short range lighting.

Searchlight Specifications

Electric Beam-Size Focus: 1 to 20° (throughout continuous spectrum) Temperature Range: -25 °C to +48 °C (approx) Environmental Protection: IP56 Power Consumption: 115VAC/12 Amps or 230 VAC/6Amps; 50/60HZ Vertical Span: +35 Deg to -35 Deg (Total 70 Deg approx) Horizontal Span: Beyond Full Circle (385 Degrees with sliding stop) Beam Speed: 25° per sec (Horizontal); 14° per sec (Vertical) Lamp: 500 Watt, Xenon Short Arc, 6500 °Kelvin Beam Intensity: <u>45</u> Million Candela Distance Serviced measuring 1 LUX: 6708 meters on a clear night Reflector: Precision Electroformed, Nickel Material, Bullet-Resistant Materials: Marine Grade Aluminum and Stainless Steel









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ELECTRONIC POWER SUPPLY

<u>**GO GREEN</u>** with the New C&F 500 Watt Xenon Power Supply... "Less than 1/3 the weight, Less than 1/3 the size, and 15% more efficient than previous models."</u>

<u>Features</u>

- Light Weight
- ⊙ Small Footprint
- ⊙ Improved Efficiency
- ⊙ *Multi-Board Safety Back-up Design
- ⊙ 120 & 230 Volt Models Available
- ⊙ Integrated Hour Meter and Ammeter
- Optional Outdoor Models Available
- Backward compatible with previous generation power supplies



Qty(2) Electronic Boards in parallel provide immediate Safety Back-up!

***Multi-Board Safety Back-up Design:** The unique Carlisle & Finch design has multiple electronic boards connected in parallel which provide built-in redundancy. If a board fails, the searchlight will still operate in "back-up" mode. This feature insures greater searchlight reliability, and is offered by no other searchlight company in the world. Other searchlights, have a complete outage, if an electronic board fails!

"How, sir, would you make a ship sail against the wind and currents by lighting a bonfire under her deck? I pray you, excuse me, I have not the time to listen to such nonsense."

-Napoleon Bonaparte, when told of Robert Fulton's steamboat, 1800s



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PROPORTIONAL-SPEED JOYSTICK

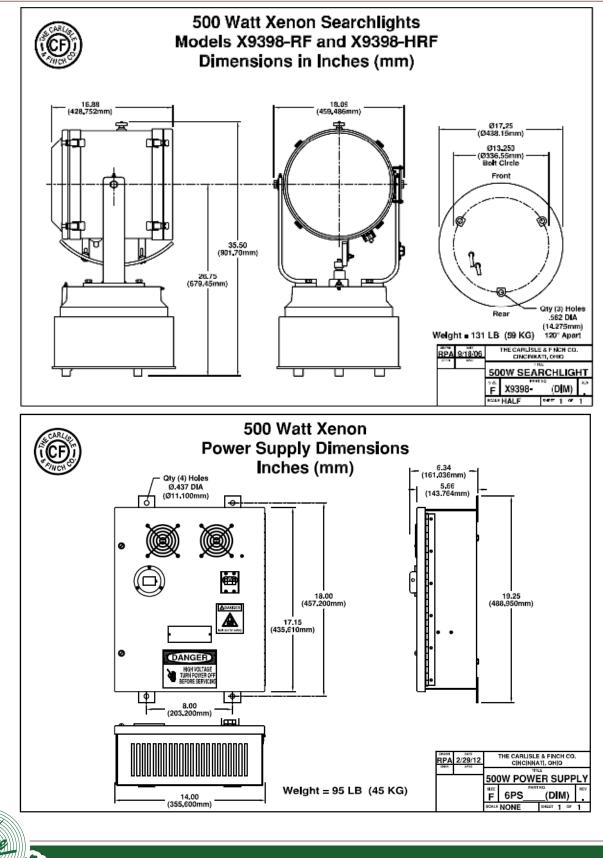


The Carlisle & Finch Company offers a "Proportional-Speed Joystick", which controls the Beam-Speed and Beam-Direction by moving the Joystick with a single hand... i.e. "move the Joystick to the first position, and the Beam moves slowly... move it further and the Beam speeds up!". Since the need for an additional Speed-Dial or Fast/Slow Switch has now been eliminated (which requires the user to use two hands of operation), the operator can now use his/her free hand to steer the vessel, hold binoculars, or hold a fire arm. Additional Joystick Functions are: Beam-ON, Beam-OFF, Electric Beam-size Focus, Proportional-Speed Joystick (described above), and Beam-On Indicator light (offered on Indoor Stations-only).



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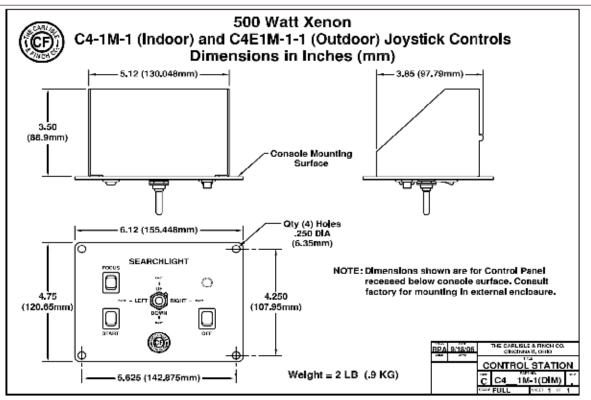




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How to Specify a Searchlight System

Searchlight Model	Power Supply Model	Joystick Controller Model
X9398-RF	6PS115DE	C4-1M-1
(Standard)	(115 VAC)	(Indoor Station)
or	or	and/or
X9398-HRF	6PS230DE	C4E1M-1-2
(Includes Anti-icing Heaters)	(230 VAC)	(Outdoor Weatherproof Station)

How to Specify a System: Read across the table and select one Searchlight, one Power Supply and one or more Joystick Controllers. For special options listed below, insert the letter into the searchlight model number, to the right of the hyphen, and in alphabetical order.

- To order Anti-icing Heaters add "-H" to the searchlight model number.
- To order Azimuth Position Indicator add "-A" to the searchlight model number.
- To order Full Manual Back add "-M" to the searchlight model number.
- To order a Thermal Camera, LED Module, or SmartVIEW™ Controls, Consult Factory.

Example Order: Searchlight with Anti-icing Heaters and Azimuth Indicator, 115VAC and (1) indoor and (2) outdoor stations... Qty(1) X9398-AHRF, Qty(1) 6PS115DE, Qty(1) C4-1M-2 and Qty(2) C4E1M-1-2





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385mm DIAMETER XENON SEARCHLIGHT



Standard of U.S. Coast Guard, U.S. Navy, and U.S. Prison System!

Features

- **Beam Intensity:** <u>45</u> Million Beam Candlepower illuminates an object approximatley 6700 meters away on a clear night!
- **Electric Beam-Size Focus:** Beam can be widened and narrowed remote electrically, throughout a continuous spectrum.
- **Beam-size Focus Knob:** External Knob changes beam-size with no tools, and provides back-up should the focus motor fail.
- **Beyond 360° of Rotation...** Unique Sliding-Stop Design allows 385 Degrees horizontal motion.
- **"Multi-board Safety Back-up"...** electronic design incorporates two boards in parallel, and if one fails, the beam will still operate in back-up mode!
- **Bullet-Resistant Reflector...** Precision-Optic Reflector with virtually indestructible Nickel Material helps prevent breakage if fixture is impacted by bullets or rocks.
- Robust Lever-Gear Aiming Assembly... twist the lever handle and a rack and pinion design moves head up and down with a built-in friction brake. Swing Lever side to side for horizontal aiming.
- **Thermal Camera (optional):** Optional integrated thermal camera provides additional Night Vision Capability.
 - **LED Hybrid (optional):** Auxiliary LED Light Modules project a "Wall of Light", 150 Meters Wide and over 230 Meters away, for strategic wide area, short-range lighting.

Searchlight Specifications

Electric Beam-Size Focus: 1 to 20° (throughout continuous spectrum) Temperature Range: -25 °C to +48 °C (approx) Environmental Protection: IP56 Power Consumption: 115VAC/12 Amps or 230 VAC/6 Amps; 50/60HZ Vertical Span: +35 Deg to -35 Deg (Total 70 Deg approx) Horizontal Span: Beyond Full Circle (385 Degrees with sliding stop) Lamp: 500 Watt, Xenon Short Arc, 6500 °Kelvin Beam Intensity: <u>45</u> Million Candela Distance Serviced measuring 1 LUX: 6708 Meters on a clear night Reflector: Precision Electroformed, Nickel Material, Bullet-Resistant Materials: Marine Grade Aluminum and Stainless Steel







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ELECTRONIC POWER SUPPLY

GO GREEN with the New C&F 500 Watt Xenon Power Supply... "Less than 1/3 the weight, Less than 1/3 the size, and 15% more efficient than previous models."

<u>Features</u>

- Light Weight
- ⊙ Small Footprint
- ⊙ Improved Efficiency
- ⊙ *Multi-Board Safety Back-up Design
- ⊙ 120 & 230 Volt Models Available
- ⊙ Integrated Hour Meter and Ammeter
- Optional Outdoor Models Available
- Backward compatible with previous generation power supplies



Qty(2) Electronic Boards in parallel provide immediate Safety Back-up!

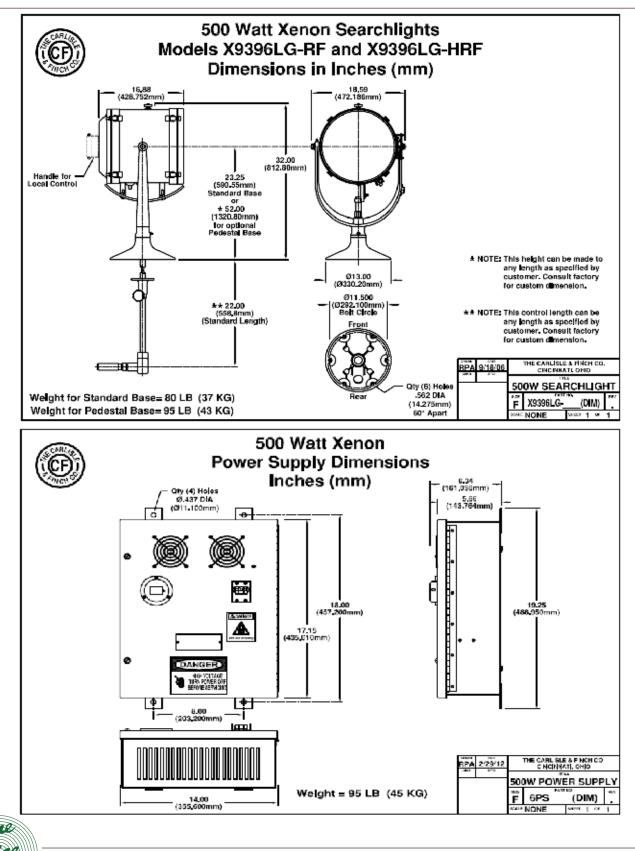
***Multi-Board Safety Back-up Design:** The unique Carlisle & Finch design has multiple electronic boards connected in parallel which provide built-in redundancy. If a board fails, the searchlight will still operate in "back-up" mode. This feature insures greater searchlight reliability, and is offered by no other searchlight company in the world. Other searchlights, have a complete outage, if an electronic board fails!

"The idea that cavalry will be replaced by these iron coaches is absurd. It is little short of treasonous."

-Comment of Aide-de-camp to Field Marshal Haig, at tank demonstration, 1916



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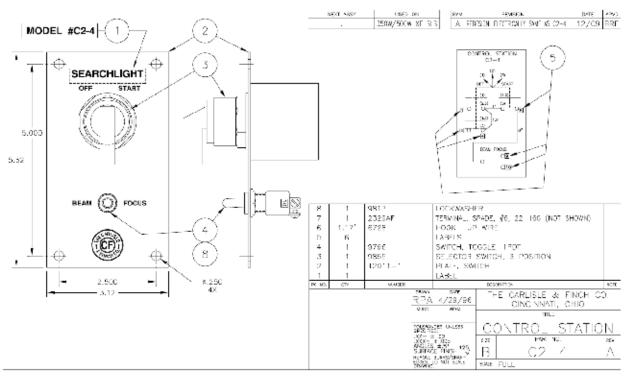
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Control Station Dimensions in Inches

How to Specify a Searchlight System

Searchlight Model	Power Supply Model	Control Station Model
X9396LG-RF	6PS115 (115 VAC) or 6PS230 (230 VAC)	C2-4

How to Specify a System: Read across the table and select one Searchlight, one Power Supply and one 9754X-RF Control Station. NOTE: Then specify Lever Control Length (reference previous page 3, and see the dimension **22 inches marked by the double asterisk. This is the standard length, but this dimension can be specified to any length which meets the customer's exact requirement. Please consult Factory for the custom length you desire.

Example Order: Searchlight powered from <u>115VAC</u> Input... Qty(1) X9396LG-RF, Qty(1) 6PS115, Qty(1) C2-4.

Note: To add an Optional Thermal Camera and/or LED Hybrid Feature, Consult Factory.



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385mm LOCAL CONTROL XENON SEARCHLIGHT



Carlisle & Finch is the standard of the U.S. Navy, U.S. Coast Guard and U.S. Federal Prisons!

<u>Features</u>

- **Beam Intensity:** Illuminates an object or person approx. 6700 Meters away on a clear night.
- Xenon Lamp... 500 Watts with 6500° Kelvin Color Temp
- **Beam-Size Focus:** Twist Knob on top of Searchlight Head changes the Beam-Size, with no tools required.
- **Manual Aiming Methods:** Handle on head provides accurate aiming, and Beam can be locked in Horizontal and Vertical Positions, quickly and easily with no tools required.
- **"Multi-board Safety Back-up"...** electronic power supply design incorporates two boards in parallel, and if one fails, the beam will still operate in back-up mode!
- **Bullet-Resistant Reflector...** Virtually Indestructible Nickel Material with Polished Rhodium Finish helps prevent breakage if fixture is impacted by bullets or rocks
- **Anti-corrosive Design:** Marine Grade Aluminum and Stainless Steel with Salt Resistant Powder Coat Finish
- **Thermal Camera (optional):** Optional thermal camera added to searchlight provides additional Night Vision capability.
- **LED Hybrid (optional):** Auxiliary LED Light Modules project a "Wall of Light", 150 Meters Wide and over 230 Meters away, for strategic wide area, short-range lighting.

Searchlight Specifications

Electric Beam-Size Focus: approx 1 to 20° (thru continuous spectrum) Temperature: -25 °C to +48 °C (approx) Environmental Protection: IP 56 Power: 115VAC or 230 VAC 50/60 HZ Vertical Aiming: +35 Deg to -35 Deg (Total 70 Deg approx) Horizontal Aiming: Beyond Full Circle Lamp: 500 Watt Xenon Short Arc Candlepower: <u>45</u> Million Candela Distance Serviced measuring 1 LUX: 6708 Meters (approx.) Reflector: Precision-Parabolic, Nickel with Rhodium Finish, Bullet-Resistant Materials: Marine Grade Aluminum and Stainless Steel







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ELECTRONIC POWER SUPPLY

<u>**GO GREEN</u>** with the New C&F 500 Watt Xenon Power Supply... "Less than 1/3 the weight, Less than 1/3 the size, and 15% more efficient than previous models."</u>

<u>Features</u>

- Light Weight
- ⊙ Small Footprint
- ⊙ Improved Efficiency
- ⊙ *Multi-Board Safety Back-up Design
- 120 & 230 Volt Models Available
- Integrated Hour Meter and Ammeter
- Optional Outdoor Models Available
- Backward compatible with previous generation power supplies



Qty(2) Electronic Boards in parallel provide immediate Safety Back-up!

***Multi-Board Safety Back-up Design:** The unique Carlisle & Finch design has multiple electronic boards connected in parallel which provide built-in redundancy. If a board fails, the searchlight will still operate in "back-up" mode. This feature insures greater searchlight reliability, and is offered by no other searchlight company in the world. Other searchlights, have a complete outage, if an electronic board fails!

"I must confess that my imagination refuses to see any sort of submarine doing anything but suffocating its crew and floundering at sea."

–H.G. Wells, British novelist, 1901

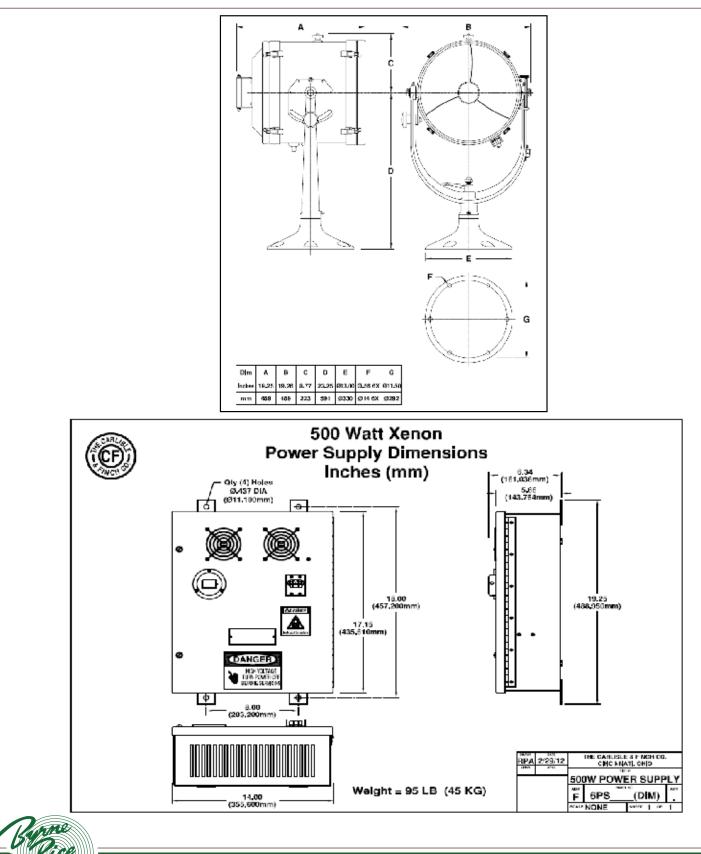


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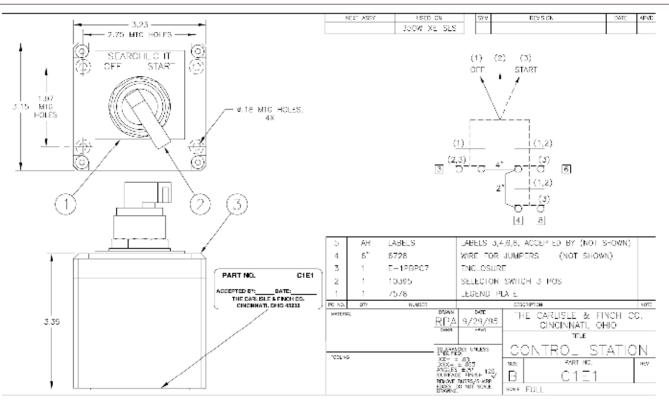




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How to Specify a Searchlight System

Searchlight Model	Power Supply Model	Control Station Model
X4197	6PS115 (115 VAC)	C1E1
or	or	or
X4197-RF (includes electric beam focus option)	6PS230 (230 VAC)	C2E4 (includes electric beam focus option)

How to Specify a System: Read across the table and select one Searchlight, one Power Supply and one Control Station. If manual beam-size focus is sufficient, select X4197 Searchlight and C1E1 Control Station. If optional electric beam-size focus is desired, select X4197-RF searchlight and C2E4 Control Station.

Example Order: Searchlight powered from <u>115VAC</u> with Manual Beam-Size Focus... Qty(1) X4197 Searchlight, Qty(1) 6PS115 Power Supply, Qty(1) C1E1 Outdoor Control Station.

Note: To add an Optional Thermal Camera and/or LED Hybrid Feature, Consult Factory.



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485mm DIAMETER XENON SEARCHLIGHT



Carlisle & Finch is the standard of the U.S. Navy, U.S. Coast Cuard and U.S. Federal Prisons.

Features

- **Beam Intensity:** <u>80</u> Million Beam Candlepower illuminates an object/person approximatley 9000 meters away on a clear night!
- **Electric Beam-Size Focus:** Beam can be widened and narrowed remote electrically, throughout a continuous spectrum.
- **Beam-size Focus Knob:** External Knob changes beam-size with no tools, and provides back-up should the focus motor fail.
- Proportional-Speed Joystick: Speed and Direction are controlled by Joystick... i.e. "Move Joystick to the first position and Beam moves slowly... move the Joystick further and it speeds up!".
- **"Multi-board Safety Back-up"...** electronic power supply design incorporates three boards in parallel, and if one fails, the beam will still operate in back-up mode!
- **Bullet-Resistant Reflector...** Virtually indestructible Nickel Material helps prevent breakage if fixture is hit by bullets or rocks.
- Anti-icing Heater: (optional): Thermostatically-controlled heaters are located in the Arm Pivots, Rack and Base.
- Azimuth Positioin Indicator (optional): Position Indicator panel displays where the Beam is aimed in degrees.
- **Thermal Camera (optional):** Optional thermal camera added to searchlight provides additional Night Vision capabililty.
- SmartVIEW[™] Control (optional): Micro-processor controls provide intelligent switching throughout a BUS Network, with multiple protocols offered: TCP/IP, RS232, RS422 and RS485.
- **High Powered Strobe (optional):** Powerful nonlethal deterrent disorients intruder and denies night vision.
- **LED Hybrid (optional):** Auxiliary LED Light Modules project a "Wall of Light", 150 Meters Wide and over 230 Meters away, for strategic short range and wide area lighting.

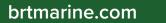
Searchlight Specifications

Electric Beam-Size Focus: 1 to 20° (throughout continuous spectrum) Temperature Range: -25 °C to +48 °C (approx) Environmental Protection: IP56 Power Consumption: 115VAC/18 Amps or 230 VAC/9Amps; 50/60HZ Vertical Span: +35 Deg to -35 Deg (Total 70 Deg approx) Horizontal Span: Beyond Full Circle (385 Degrees with sliding stop) Beam Speed: 25° per sec (Horizontal); 14° per sec (Vertical) Lamp: 1000 Watt, Xenon Short Arc, 6500 °Kelvin Beam Intensity: <u>80</u> Million Candela Distance Serviced measuring 1 LUX: 8959 Meters on a clear night. Reflector: Precision Electroformed, Nickel Material, Bullet-Resistant Materials: Marine Grade Aluminum and Stainless Steel









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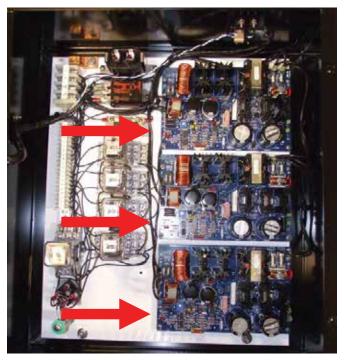
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ELECTRONIC POWER SUPPLY

<u>**GO GREEN</u>** with the C&F 1000 Watt Xenon Power Supply... "Less than 1/3 the weight, Less than 1/3 the size, and 15% more efficient than previous models."</u>

<u>Features</u>

- Light Weight
- ⊙ Small Footprint
- ⊙ Improved Efficiency
- ⊙ *Multi-Board Safety Back-up Design
- ⊙ 120 & 230 Volt Models Available
- ⊙ Integrated Hour Meter and Ammeter
- Optional Outdoor Models Available
- Backward compatible with previous generation power supplies



Qty(3) Electronic Boards in parallel provide immediate Safety Back-up!

***Multi-Board Safety Back-up Design:** The unique Carlisle & Finch design has multiple electronic boards connected in parallel which provide built-in redundancy. If a board fails, the searchlight will still operate in "back-up" mode. And when there is a board failure, an indicator light on the control panel warns the operator that the light is in "back-up mode", and that the board should be replaced. This feature insures greater searchlight reliability, and is offered by no other searchlight company in the world. Other searchlights, have a complete outage, if an electronic board fails!

"The world potential market for copying machines is 5,000 at most." —IBM, to the eventual founders of Xerox, saying the photocopier had no market large enough to justify production, 1959



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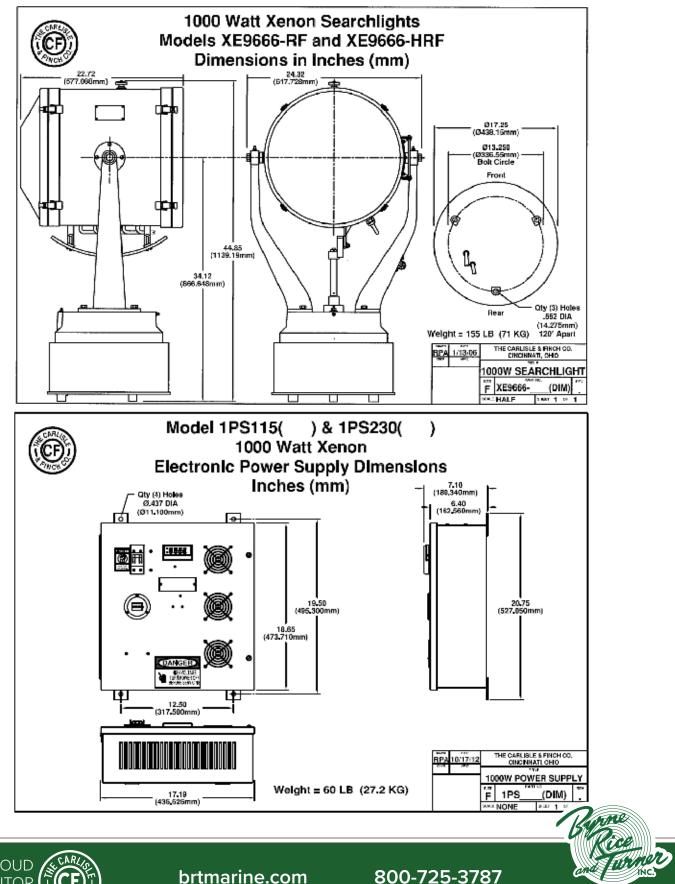
PROPORTIONAL-SPEED JOYSTICK



The Carlisle & Finch Company offers a "Proportional-Speed Joystick", which controls the Beam-Speed and Beam-Direction by moving the Joystick with a single hand... i.e. "move the Joystick to the first position, and the Beam moves slowly... move it further and the Beam speeds up!". Since the need for an additional Speed-Dial or Fast/Slow Switch has now been eliminated (which requires the user to use two hands of operation), the operator can now use his/her free hand to steer the vessel, hold binoculars, or hold a fire arm. Additional Joystick Functions are: Beam-ON, Beam-OFF, Electric Beam-size Focus, Proportional-Speed Joystick (described above), Beam-On Indicator light (offered on Indoor Stations-only), and OverTemp/Hazard Warning Light.



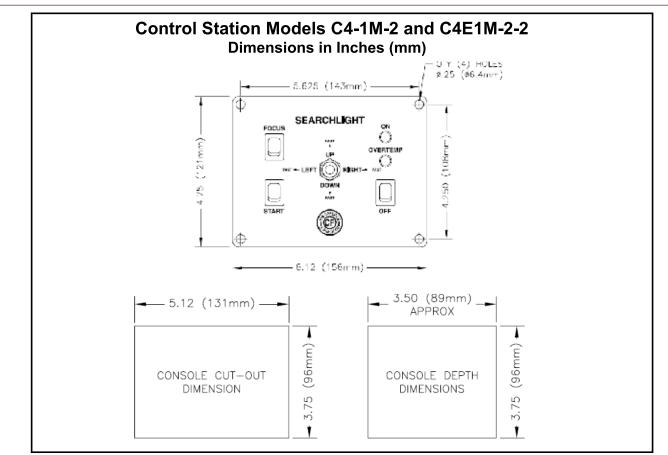
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How to Specify a Searchlight System

Searchlight Model	Power Supply Model	Joystick Controller Model
XE9666-RF	1PS115DE	C4-1M-2
(Standard)	(115 VAC)	(Indoor Station)
or	or	and/or
XE9666-HRF	1PS230DE	C4E1M-2-2
(Includes Anti-icing Heaters)	(230 VAC)	(Outdoor Weatherproof Station)

How to Specify a System: Read across the table and select one Searchlight, one Power Supply and one or more Joystick Controllers. For special options listed below, insert the letter into the searchlight model number, to the right of the hyphen, and in alphabetical order.

- To order Anti-icing Heaters add "-H" to the searchlight model number.
- To order Azimuth Position Indicator add "-A" to the searchlight model number.
- To order Full Manual Back add "-M" to the searchlight model number.
- To order a Thermal Camera, LED Hybrid Module, or SmartVIEW™ Controls, consult Factory.

Example Order: Searchlight with Anti-icing Heaters and Azimuth Indicator, 115VAC and (1) indoor and (2) outdoor stations... Qty(1) XE9666-AHRF, Qty(1) 1PS115DE, Qty(1) C4-1M-2 and Qty(2) C4E1M-2-2



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485mm DIAMETER XENON SEARCHLIGHT

Features

- **Beam Intensity:** <u>80</u> Million Beam Candlepower illuminates an object approximatley 9000 meters away on a clear night!
- **Electric Beam-Size Focus:** Beam can be widened and narrowed electrically, throughout a continuous spectrum.
- **Beam-size Focus Knob:** External Knob changes beam-size with no tools, and provides back-up should the focus motor fail.
- **Beyond Full Circle of Rotation...** Unique Sliding-Stop Design allows 385 Degrees horizontal motion.
- **"Multi-board Safety Back-up"...** electronic power supply design incorporates three boards in parallel, and if one fails, the beam will still operate in back-up mode!
- **Bullet-Resistant Reflector...** Precision-Optic Reflector with virtually indestructible Nickel Material helps prevent breakage if fixture is impacted by bullets or rocks.
- **Anti-icing Heater: (optional):** Thermostaticallycontrolled heaters located in the Arm Pivots, Rack and Base.
- **Thermal Camera (optional):** Optional thermal camera added to searchlight provides additional Night Vision capabilility.
- **High Powered Strobe (optional):** Powerful nonlethal deterrent dis-orients enemy and denies night vision.
- **LED Hybrid (optional):** Auxiliary LED Light Modules project a "Wall of Light", 150 Meters Wide, and over 230 Meters away, for strategic wide-area, short-range lighting.



Searchlight above shown with the NightFINDER™ Thermal Camera Option!

Searchlight Specifications

Electric Beam-Size Focus: 1 to 20° (throughout continuous spectrum) Temperature Range: -25 °C to +48 °C (approx) Environmental Protection: IP56 Power Consumption: 115VAC/18 Amps or 230 VAC/9Amps; 50/60HZ Vertical Span: +35 Deg to -35 Deg (Total 70 Deg approx) Horizontal Span: Beyond Full Circle (385 Degrees with sliding stop) Lamp: 1000 Watt, Xenon Short Arc, 6500 °Kelvin Beam Intensity: <u>80</u> Million Candela Distance Serviced measuring 1 LUX: 8959 Meters on a clear night Reflector: Precision Electroformed, Nickel Material, Bullet-Resistant Materials: Marine Grade Aluminum and Stainless Steel









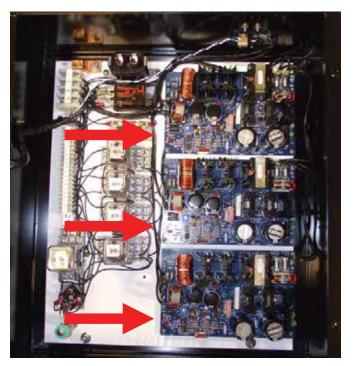
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ELECTRONIC POWER SUPPLY

<u>**GO GREEN</u>** with the C&F 1000 Watt Xenon Power Supply... "Less than 1/3 the weight, Less than 1/3 the size, and 15% more efficient than previous models."</u>

<u>Features</u>

- Light Weight
- ⊙ Small Footprint
- ⊙ Improved Efficiency
- ⊙ *Multi-Board Safety Back-up Design
- ⊙ 120 & 230 Volt Models Available
- ⊙ Integrated Hour Meter and Ammeter
- Optional Outdoor Models Available
- Backward compatible with previous generation power supplies



Qty(3) Electronic Boards in parallel provide immediate Safety Back-up!

***Multi-Board Safety Back-up Design:** The unique Carlisle & Finch design has multiple electronic boards connected in parallel which provide built-in redundancy. If a board fails, the searchlight will still operate in "back-up" mode. And when there is a board failure, an indicator light on the control panel warns the operator that the light is in "back-up mode", and that the board should be replaced. This feature insures greater searchlight reliability, and is offered by no other searchlight company in the world. Other searchlights, have a complete outage, if an electronic board fails!

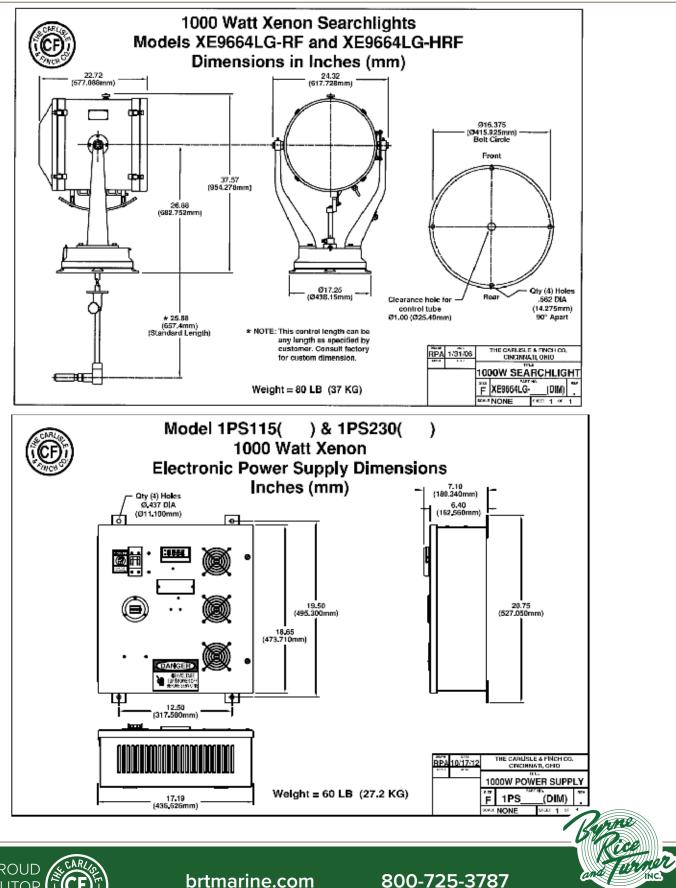
"The Americans have need of the telephone, but we do not. We have plenty of messenger boys."

-Sir William Preece, Chief Engineer, British Post Office, 1878



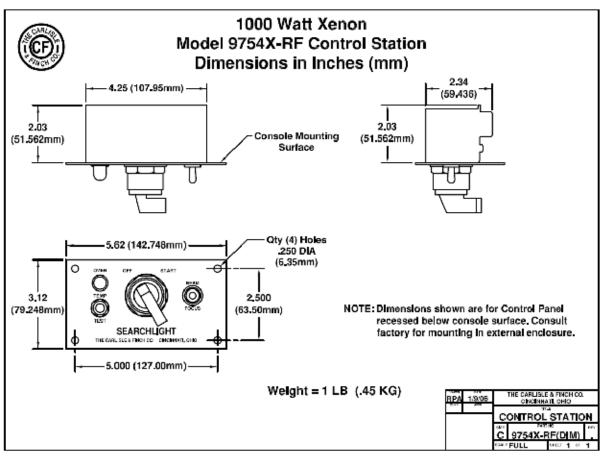
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BRT



How to Specify a Searchlight System

Searchlight Model	Power Supply Model	Control Station Model
XE9664LG-RF (Standard) or	1PS115 (115 VAC) or	9754X-RF
XE9664LG-HRF (Includes Anti-icing Heaters)	1PS230 (230 VAC)	

How to Specify a System: Read across the table and select one Searchlight, one Power Supply and one 9754X-RF Control Station. NOTE: Then specify Lever Control Length (reference previous page 3, and see the dimension *25.88 inches marked by the asterisk. This is the standard length, but this dimension can be specified to the customer's exact requirement. Please consult Factory for any custom control length you desire.

Example Order: Searchlight with Anti-icing Heaters and 115VAC Input... Qty(1) XE9664LG-HRF, Qty(1) 1PS115, and Qty(1) 9754X-RF.



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HALOGEN SEARCHLIGHTS

<u>Features</u>

- Powerful Beams... 1KM to 2KM Range!
 <u>1.0</u> Million Candela (10-inch/254mm Diameter)
 <u>1.6</u> Million Candela (12-inch/305mm Diameter)
 <u>3.0</u> Million Candela (15-inch/483mm Diameter)
- Materials... High Quality Brass and Stainless Materials.
- **Finish...** Salt-resistant Powder Coat (White, Black and Grey) or custom colors. Chrome can be special-ordered.
- Anti-shock Lamp Holder... helps prevent lamp filament damage due to vessel vibration, or impact from bullets and rocks.
- Wide Range of Voltages... 12VDC, 24VDC, 115VAC or 230VAC.
- Aiming Control-types: Local Handle Control or Remote Lever-Gear Control from inside Marine Pilothouse or Guardhouse (remote lever-gear control pictured at right).
- LED Hybrid (optional): Auxiliary LED Modules illuminate wide areas closer to the Guardhouse or Ship, where the narrower halogen beam cannot effectively service.
- **NightFINDER™** (optional): Embedded Thermal Camera integrated onto the Searchlight Pan/Tilt Base.

"Over 122 Years of Quality".... The Carlisle & Finch Co. is the standard supplier of searchlights to the U.S. State and Federal Prison System, the U.S. Army, the U.S. Navy, the U.S. Coast Guard, and the North American Commercial Marine Market. The company world's Carbon the first invented Arc Searchlight in 1894, and pioneered xenon arc searchlight technology, in the 1900's!



"Rugged and Powerful"



Carlisle & Finch is the standard of the U.S. Coast Guard!

"Don't interfere with somethin' that ain't botherin' you none."

-Old Hillbilly Wisdom.





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HALOGEN SEARCHLIGHTS

for life.

extra charge.

A. Available in Three Beautiful External Finishes: white enamel, polished brass, or polished chrome. Interior finished with heat resistant flat black paint.

R

- B. Vented Drum Available for 12" and 15" searchlights allowing use of 1000 watt lamps.
- C. Many Lamp Types accommodated. See listing on page 3.
- D. Metal Louvers eliminate front spill light.
- E. High Quality Silvered Glass Reflector efficiently concentrates light into a powerful beam.
- E. Choice of Lampholders

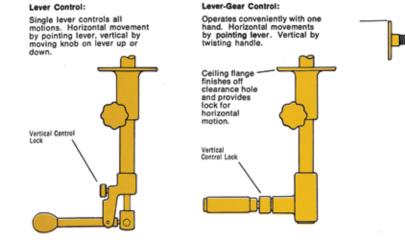
		10"	12"	15"
1	Medium Screw	Yes	Yes	Yes
2	Medium Prefocus	 Yes 	*Yes	*Yes
3	Mogul Screw	No	Yes	Yes
4	Mogul Bipost	No	No	Yes
5	2-Pin Prefocus	Yes	Yes	Yes

*Supplied as standard if lampholder not specified

- G. External Focus Control permits changing beam from spot to flood with lamp operating, without the use of tools.
- H. Heat-Tempered Cover Glass and tight sealing door gasket provide maximum protection for drum interior.
 - These searchlights are ruggedly constructed entirely of brass and are designed for heavy duty marine service.
- Double seals around control shaft prevent в leakage to pilot house. Lubricated for life. J. Seal between base and yoke. Lubricated K. Standard, High, or Pedestal Bases available with any control type except DMC which is available only with standard base. Special heights (measured from bottom of base to centerline of beam) for pedestal base searchlights may be specified at D L. Heavy Duty Three-Conductor Flexible Ε. Cable extends approximately two feet F below water-tight stuffing tube in base. Third conductor grounded. Longer cable can be supplied at extra charge. M. Sliding Stop allows horizontal rotation in excess of 360°. Supplied on all models except Local Control and DMC. N. Base Gasket optional at extra charge. Skirt effect & bearing surface discourages water entry. Should water pass this point it must go "uphill" before reaching the M

Six Basic Control Types

Lever Control:



Local Control

(see Figs. 1, 2, 3, on page 5): Searchlight has training handle on back dome and hand clamps for clamping in any position.

Distant Electric Control (DEC):

See latest revision of bulletin D116 for these same size searchlights controlled from one or more electric remote control stations.

Bronze Bevel Gears Distant Mechanical Control (DMC):

Similar to wheel control except that control shafts are at right angle to searchlight base.

Wheel Control:

Upper wheel controls horizontal motion, lower wheel the vertical motion. Friction brake holds searchlight in any vertical position.



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SEARCHLIGHTS LAMP DATA

Searchlight Lamp Data

Lamp I	Data								Peak	Beam Candle	power
Ref.	Code	Watts	Volts	Bulb Size	Base	Description	Filament	*Average Hrs. Life	10″ Scht.	12" Scht.	15″ Scht.
21.5	FDT	100	12	Τ4	2-Pin Prefocus	Tungsten Halogen	C6	50	765,000	1,170,000	1,750,000
22	CPR	108	6	T10	Medium Prefocus	Projection	C8	50	350,000	563,000	
23.01	FDS	150	24	T4	2-Pin Prefocus	Tungsten Halogen	C6	100	935,000	1,380,000	2,030,000
46.5	BTM	500	120	Т6	Medium Prefocus	Tungsten Halogen	C13D	100	950,000	1,160,000	2,080,000
47	CZX	500	120	T10	Medium Prefocus	Projection	C13D	25	900,000	1,170,000	
51	DMX	500	120	T20	Meduim Prefocus	Projection	C13	50	475,000	780,000	
53.8	DYS	600	120	G7	2-Pin Prefocus	Tungsten Halogen	CC6	75	**781,000	1,130,000	1,840,000
54.5	BTP	750	120	Т6	Medium Prefocus	Tungsten Halogen	C13D	200	not used	1,520,000	2,820,000
				L	AMPS BELOW TO B	BE USED IN VENTED	DRUMS	ONLY			
68.05	BTR	1000	120	T7	Medium Prefocus	Tungsten Halogen	C13D	200	not used	1,520,000	2,820,000
70	DRS	1000	120	T20	Medium Prefocus	Projection	C13D	25	not used	1,650,000	3,280,000
71	DRC	1000	120	T20	Medium Prefocus	Projection	C13	50	not used	800,000	1,760,000

* These lamp manufacturer's figures are relative only. Individual lamps may vary considerably.

**Intermittent duty only (one hour or less).



Medium Prefocus Lampholders on 12 and 15-inch searchlights have unique Shock Absorbing Base Design, which helps prevent lamp filament damage due to excess vibration and shock impact.

Accessories & Parts

Part No. For Size Scht.				
10"	12"	15″		
SL3322A	SL3322A	SL3322B		
SL62	SL102	SL1085		
SL3318B	SL3318B	SL3318B		
SL3318B	SL3318B	SL3318B		
SL3318C	SL3318C	SL3318C		
SL3318A	SL3318B	SL3318B		
SL1250C	SL1250C	SL1250C		
SL1087-1	SL1087-1	SL1087-1		
	-	FE132X		
-	SL96	SL96		
8704	8704	8704		
SL1083A	SL107	SL1084		
	10" SL3322A SL62 SL3318B SL3318B SL3318C SL3318A SL1250C SL1087-1 8704	10" 12" SL3322A SL3322A SL62 SL102 SL3318B SL3318B SL3318B SL3318B SL3318C SL3318C SL3318A SL3318B SL1250C SL1250C SL1087-1 SL1087-1 SL96 8704 8704		

How to Order Searchlights

Specify size searchlight, type control, type base, type drum, type finish, type lampholder, and give code word or catalog number. Give ordering code and volts of lamp. Specify length of control (measured from bottom of base to centerline of lever or upper wheel) if other than the standard dimensions shown on the dimension drawings. Specify pedestal height (measured from bottom of base to centerline of drum) if different from the standard 48 inches.

Example: 12" searchlight, lever control, standard base, vented drum, enamel finish, medium prefocus lampholder, code RECITE-E2. Special length control 22" base to centerline lever. Two lamps code BTR 120 volts.

To designate the specific lampholder desired add one of the following suffixes to the code word or catalog number:

Medium Screw Lampholder —1 Medium Prefocus Lampholder —2 



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SEARCHLIGHT SELECTION TABLE

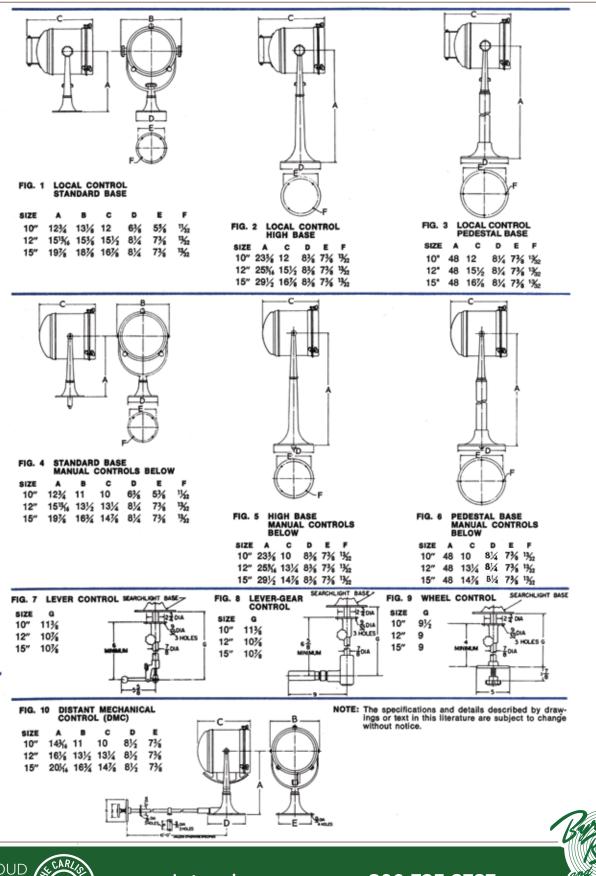
	Туре	Type	Base	Type Drum	Searchlig	aht Code Word or Cat	alog No.	Net	Shipping
	Control	Type	Dase	Type Drum	Enamel Finish	Polished Finish	Chromium Finish	Wt. Lbs.	Wt. Lbs.
		Standard	(Fig. 1)	Non Vented	RAIN-E	RAIN	CRAIN	15	21
	Local	High	(Fig. 2)	Non Vented	ROSE-E	ROSE	CROSE	22	28
		Pedestal	(Fig. 3)	Non Vented	RAJAH-E	RAJAH	CRAJAH	29	59
		Standard	(Figs. 4 & 7)	Non Vented	REDAN-E	REDAN	CREDAN	19	25
	Lever	High	(Figs. 5 & 7)	Non Vented	REFORM-E	REFORM	CREFORM	27	33
		Pedestal	(Figs. 6 & 7)	Non Vented	10SL1624XE	10SL1624X	10SL1624XC	34	55
	Lever-	Standard	(Figs. 4 & 8)	Non Vented	10SL8425E	10SL8425P	10SL8425C	22	28
	Gear	High	(Figs. 5 & 8)	Non Vented	10SL8426E	10SL8426P	10SL8426C -	30	36
-		Pedestal	(Figs. 6 & 8)	Non Vented	10SL8427E	10SL8427P	10SL8427C	37	58
inch		Standard	(Figs. 4 & 9)	Non Vented	RANK-E	RANK	CRANK	19	25
르.	Wheel	High Pedestal	(Figs. 5 & 9) (Figs. 6 & 9)	Non Vented Non Vented	ROPE-E 10SL1620XE	ROPE 10SL1620X	CROPE 10SL1620XC	27 37	33 55
0									
Ξ.	DMC	Standard	(Fig. 10)	Non Vented	10SL200E	10SL200P	10SL200C	32	53
		Standard	(Fig. 1)	Non Vented	RAKE-E	RAKE	CRAKE	22	31
	Lagel	1.0 - b	151- 01	Vented	RATE-E	RATE	CRATE	22	31
	Local	High	(Fig. 2)	Non Vented Vented	ROME-E RUN-E	ROME	CROME	27 27	36 36
		Pedestal	(Fig. 3)	Non Vented	RETARD-E	RETARD	CRETARD	34	64
			(· · ·) · · · ·	Vented	12SL1648XE	12SL1648X	12S1648XC	34	64
		Standard	(Figs. 4 & 7)	Non Vented	REDEEM-E	REDEEM	CREDEEM	26	35
		oranoaro	(rigo: + a /)	Vented	RECITE-E	RECITE	CRECITE	26	35
	Lever	High	(Figs. 5 & 7)	Non Vented	REFUGE-E	REFUGE	CREFUGE	32	41
				Vented	RESIN-E	RESIN	CRESIN	32	41
		Pedestal	(Figs. 6 & 7)	Non Vented Vented	12SL1625XE 12SL1650XE	12SL1625X 12SL1650X	12SL1625XC 12SL1650XC	39 39	60 60
		Standard	(Figs. 4 & 8)	Non Vented	12SL8186E	12SL8186P	12SL8186C	29	38
	Lever-	High	(Figs. 5 & 8)	Vented Non Vented	12SL8186VE 12SL8410E	12SL8186VP 12SL8410P	12SL8186VC 12SL8410C	29 35	38 44
	Gear	nign	(198.500)	Vented	12SL8410VE	12SL8410VP	12SL8410VC	35	44
		Pedestal	(Figs. 6 & 8)	Non Vented	12SL8428E	12SL8428P	12SL8428C	42	63
				Vented	12SL8428VE	12SL8428VP	12SL8428VC	42	63
		Standard	(Figs. 4 & 9)	Non Vented	RASP-E	RASP	CRASP	26	35
				Vented	REAR-E	REAR	CREAR	26	35
	Wheel	High	(Figs. 5 & 9)	Non Vented	RUSE-E	RUSE	CRUSE	32	41
L.		Pedestal	(Figs. 6 & 9)	Vented Non Vented	RIPE-E 12SL1621XE	RIPE 12SL1621X	CRIPE 12SL1621XC	32 39	41 60
inch		reveatar	(193.00.3)	Vented	12SL1649XE	12SL1649X	12SL1649XC	39	60
-				Non Vented	12SL201E	12SL201P	12SL201C	37	58
12	DMC	Standard	(Fig. 10)	Vented	12SL203E	12SL203P	12SL203C	37	58
		Standard	(Fig. 1)	Non Vented	REDGUM-E	REDGUM	CREDGUM	39	51
		otanuaru	(97	Vented	REDGUM-VE	REDGUM-V	CREDGUM-V	39	51
	Local	High	(Fig. 2)	Non Vented	REEL-E	REEL	CREEL	44	56
				Vented	REEL-VE	REEL-V	CREEL-V	44	56
		Pedestal	(Fig. 3)	Non Vented Vented	RONTY-E RONTY-VE	RONTY RONTY-V	CRONTY CRONTY-V	50 50	80 80
		Standard	(Figs. 4 & 7)	Non Vented	RADIAL-E	RADIAL RADIAL-V	CRADIAL	43	55
	Lever	High	(Figs. 5 & 7)	Vented Non Vented	RADIAL-VE RAINBOW-E	RAINBOW	CRADIAL-V CRAINBOW	43 49	55 61
	Lever	nigii	(193.5 0 1)	Vented	RAINBOW-VE	RAINBOW-V	CRAINBOW-V	49	61
		Pedestal	(Figs. 6 & 7)	Non Vented	15SL1626XE	15SL1626X	15SL1626XC	56	77 .
				Vented	15SL1626XVE	15SL1626XV	15SL1626XVC	56	77
		Standard	(Figs. 4 & 8)	Non Vented	15SL8184E	15SL8184P	15SL8184C	46	58
	Lever-			Vented	15SL8184VE	15SL8184VP	15SL8184VC	46	58
	Gear	High	(Figs. 5 & 8)	Non Vented Vented	15SL8408E 15SL8408VE	15SL8408P 15SL8408VP	15SL8408C 15SL8408VC	52 52	64 64
		Pedestal	(Figs. 6 & 8)	Non Vented	15SL8429E	15SL8429P	15SL8429C	59	80
				Vented	15SL8429VE	15SL8429VP	15SL8429VC	59	80
		Standard	(Figs. 4 & 9)	Non Vented	RACKET-E	RACKET	CRACKET	43	55
		01011010	(Vented	RACKET-VE	RACKET-V	CRACKET-V	43	55
	Wheel	High	(Figs. 5 & 9)	Non Vented	RABBIT-E	RABBIT	CRABBIT	49	61
-		Dedeelal	(Fige 6 8 C)	Vented	RABBIT-VE	RABBIT-V	CRABBIT-V	49	61
5		Pedestal	(Figs. 6 & 9)	Non Vented Vented	15SL1622XE 15SL1622XVE	15SL1622X 15SL1622XV	15SL1622XC 15SL1622XVC	56 56	77
15 inch	1								
2	DMC	Standard	(Fig. 10)	Non Vented	15SL202E	15SL202	15SL202C	54	75
1				Vented	15SL202VE	15SL202V	15SL202VC	54	75
1									



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SEARCHLIGHT SELECTION TABLE



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MARINE & SECURITY HALOGEN SEARCHLIGHTS



Powerful and Robust!

<u>Features</u>

- Powerful Beams... 1KM to 2KM Range!
 - **1.0** Million Candlepower (254mm/10-inch Diameter)
 - **<u>1.6</u>** Million Candlepower (305mm/12-inch Diameter) **3.0** Million Candlepower (381mm/15-inch Diameter)
 - **<u>3.0</u>** Million Candlepower (36 milli/13-inch Diameter)
- **Materials/Finish...** Brass and Stainless Steel, with Salt-Resistant Powder Coat or Chrome Finish.
- Anti-shock Lamp Holder Design... helps prevent lamp filament damage due to vessel vibration, or impact from bullets and rocks.
- Anti-condensation Heater... located in base which helps prolong life of electrical components.
- Wide Range of Voltages... 12VDC, 24VDC, 115VAC and 230VAC.
- **Multiple Weatherproof Controls...** unlimited Joystick Controllers can control the same searchlight.
- Anti-icing Heater Ciruitry (optional)... heaters in base prevent ice-build-up in cold weather climates.
- LED Hybrid (optional): Auxiliary LED Modules illuminate wide areas closer to the Guardhouse or Marine Vessel, where the narrower halogen beam cannot effectively service.
- NightFINDER™ (optional): Embedded Thermal Camera integrated onto Searchlight Pan/Tilt Base.

Marine and Security Applications

This searchlight family is used widely throughout the U.S. Army, U.S. Navy and U.S. Coast Guard for Marine and Security Use. It is a rugged and high quality Brass and Stainless Fixture, with a powerful Beam which services distances from 1 to 2KM, depending on the fixture-size selected. The beam will immediately stop on the target, with built-in electric braking. The rotation is beyond a full circle (385°) with a unique sliding stop design!



U.S. Coast Guard Vessel using Carlisle & Finch Searchlight!

"Timing has a lot to do with the outcome of a rain dance."

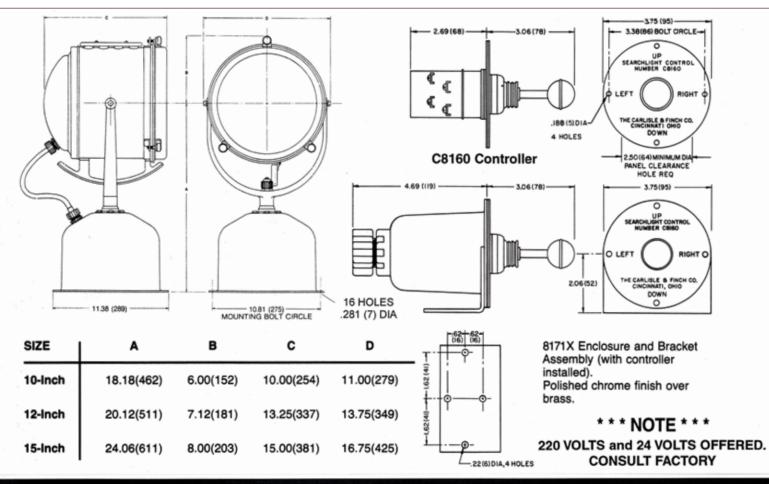
-Old Hillbilly Wisdom



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SEARCHLIGHTS DIMENSIONS



SEARCHLIGHT SELECTION TABLE

The complete catalog number must include a suffix for the lampholder desired. Add one of the following suffixes to the basic catalog number: medium screw lampholder, -1; medium prefocus, -2; mogul screw, -3; mogul bipost, -4; 2-pin prefocus, -5.

				CHLIGHT CATALOG NU		Weight	lb (kg)
Size	Drum	Base	Enamel Finish	Polished Finish	Chrome Finish	Net	Ship
10-Inch	Non-Vented	Aluminum Brass	105AE 105BE	105AP 105BP	105AC 105BC	30(14) 35(16)	40(18) 45(20)
12-Inch	Non-Vented	Aluminum Brass	125AE 125BE	125AP 125BP	125AC 125BC	35(16) 40(18)	46(21) 51(23)
	Vented	Aluminum Brass	125AEV 125BEV	125APV 125BPV	125ACV 125BCV	35(16) 40(18)	46(21) 51(23)
15-Inch	Non-Vented	Aluminum Brass	155AE 155BE	155AP 155BP	155AC 155BC	51(23) 56(25)	65(29) 70(32)
	Vented	Aluminum Brass	155AEV 155BEV	155APV 155BPV	155ACV 155BCV	51 (23) 56(25)	65(29) 70(32)

HOW TO ORDER SEARCHLIGHT SYSTEMS

Specify quantity Distant Electric Control (DEC) Searchlight, size, drum, base material, finish, and lampholder desired. Give searchlight catalog number from table above and add suffix for lampholder type. Specify quantity controller C8160, with or without Enclosure and Bracket Assembly 8171X. Specify quantity lamps and give volts, watts, and ordering code from lamp list. Order Example:

- 2 DEC Searchlight, 12", vented, aluminum base, enamel finish, medium prefocus lampholder, catalog no. 125AE-2.
- 4 Controller C8160
- 4 Enclosure and Bracket Assembly 8171X
- 4 Lamp, 120V, 1000W, code BTR



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LED "HYBRID" MARINE SEARCHLIGHT



LED Features

- Eliminates Blind Spots: LED Beam illuminates wide areas nearer to Vessel which traditional Halogen and Xenon narrower beams have difficulty servicing.
- **Dual LED Module Design:** Two LED Light Modules powered by separate electronics, provides emergency backup, if one fails.
- Low LED Power Consumption: Only 43
 Watts per module (86 Watts Total!)
- Long LED Lamp-Life: 50,000 Hours!
- **Field Upgradeable:** Add "LED Hybrid Kit" to your <u>existing</u> C&F 19-inch (483mm) Halogen, 500 Watt and 1000 Watt Xenon Searchlights!
- **Battery Back-up:** Can be run directly off battery power because Voltage Input is 12VDC to 28VDC.
- Environmentally Robust: IP67-Rated
- LED Beam Pattern: See Exhibit A on page two.

What is an LED Hybrid Searchlight? Although LED Technology illuminates shorter distances very effectively, it still cannot compete with the long range distances achieved by Xenon and Larger Halogen Searchlights. However, in order to service those greater distances, these traditional light sources produce narrower beams of light, which have great difficulty servicing areas nearer to the vessel. Therefore, Carlisle & Finch has created the "LED Hybrid" Searchlight. The "LED Hybrid" strategically combines LED Lighting, with traditional light sources such as Xenon and Halogen, to efficiently utilize the strengths of multiple technologies combined into one versatile product!

Imagine being able to instantly direct a **"Wall of light"**, wider than a football field, approximately 230 meters away, anywhere around the vessel! The beam has evenly spread illumination, and a "pure white" color rendering, pleasing to the human eye. And of course, the operator can also use the Xenon or Halogen Beam to reach out long distances instantly on demand. The "LED Hybrid" Searchlight performs all marine lighting applications using the same flexible product!





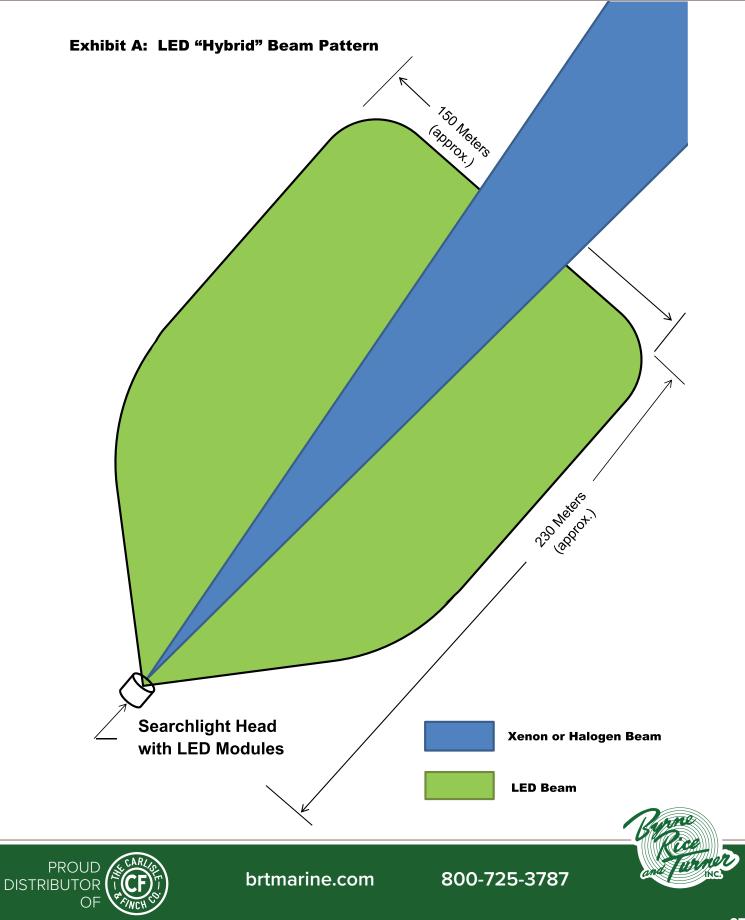
Standard of U.S. Navy, U.S. Coast Guard and Commercial Marine Vessels worldwide!



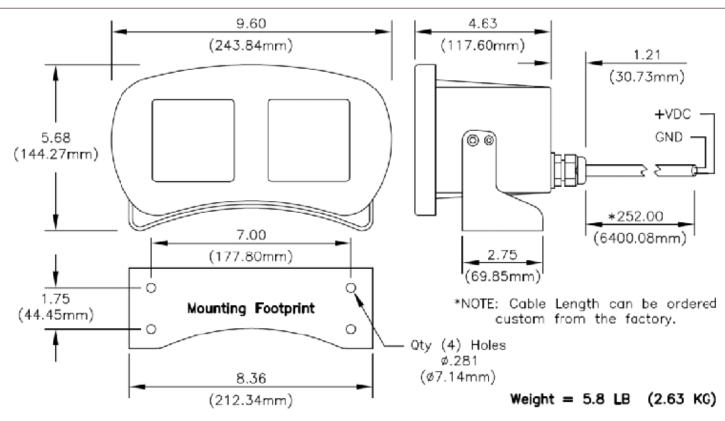
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LED "HYBRID" BEAM PATTERN



BR



LED Hybrid Kit Ordering Information

Model		Searchlight
Number	Description	Used On
K15215X-500	Complete LED Hybrid Kit: Includes LED Fixture, Mounting	500 Watt Xenon
	Bracket, Fasteners, Template, 21 Ft Cable, AND Counter-Balance	
K15215X-1000	Complete LED Hybrid Kit: Includes LED Fixture, Mounting	1.0KW Xenon and
	Bracket, Fasteners, Template, 21 Ft Cable, AND Counter-Balance	
K15215X-19	Complete LED Hybrid Kit: Includes LED Fixture, Mounting	19-in Halogen
	Bracket, Fasteners, Template, 21 Ft Cable, AND Counter-Balance	-

Model Number	Description	Searchlight Used On
K15215X	LED Fixture Assembly: Includes LED Fixture, Mounting Bracket,	All
	Fasteners, Template and 21 Ft. Cable (No Counter-Balance)	
K15242-500	Counter-Balance, 500 Watt Xenon	500 Watt Xenon
K15242-1000	Counter-Balance, 1.0KW Xenon	1.0KW Xenon
K15242-19	Counter-Balance, 19-inch Halogen	19-in Halogen

NOTE: Above Model Numbers pertain to the LED Fixture-only. To order a complete Hybrid Searchlight, you must provide the traditional Searchlight Model, as well the complete LED Hybrid Kit Numbers above.



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800-725-3787



B_R

CLASSIC-STYLE NightFINDER[™]

Features

- NightFINDER[™] Option offered on all C&F Classic Searchlight Products (Halogen and Xenon!)
- Camera Upgrades offered for Searchlights in the Field
- Two Thermal Cameras offered: MediumppRange: services 800 Meters (approx.) Long Range: services 1500 Meters (approx.)
- Reduces Cabling and Saves Mounting Space
- Camera is used as a "**Covert Targeting Device**" to strategically light up object or person!
- "Built-in-Tracking" between Searchlight and Camera

By integrating a searchlight <u>and</u> thermal camera within the same design, you will realize the following benefits: *Save Money... Reduce Mounting Space...* have *"Built-in-Tracking"* between Searchlight and Camera, and provide "Synergism with other

The camera and searchlight are precisely aligned, so they track together on the same target as the Pan/Tilt Base moves. Therefore, the camera can be used as a "**Covert Targeting Device**" to instantly and accurately illuminate the object (i.e.

operator scans horizon covertly with camera, and when further recognition is required, the searchlight instantly and accurately illuminates the target!). This not only enhances ship navigation, but will also deny an intruder's night vision, with an intense blinding beam of light. And the optional strobe feature provides a disorienting and dizzying effect, thereby transforming the NightFINDER[™] into a powerful nonlethal weapon! Scroll down to see the Camera Specifications (ref. page 2), and application

diagrams with descriptions (ref. Exhibits A, B, C and D).

- 2X/4X Digital Zoom (Long Camera Range-only)
- White Hot/Black Hot (Long-range Camera only)
- Optional Strobe provides Nonlethal Deterrence



350 Watt Xenon Searchight seen above with NightFINDER™ Option

T.

Search and Rescue!



See Intruders Covertly!

"Borrowing trouble from the future doesn't deplete the supply."

-Old Hillbilly Wisdom





Night Vision Systems".

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SPECIFICATIONS

Long Range Camera



Camera Specifications

- Sensor: 336 x 256 uncooled
- Field of View: 6.5° H x 5° V
- Digital Zoom: 2X, 4X
- White Hot/Black Hot offered
- Temp Range: -40°C to +80°C
- Video Signal: NTSC or PAL
- Voltage/Power: 12VDC/15W
- Environmental Protection IP67
- Distance Serviced: *1500 Meters

*Note: Distances approx. and based on size and heat signature of object.

Specify a Model

Model Description

- 15151X-12 Camera Kit for 305mm Diameter Halogen, and 350 Watt Xenon Searchlights.
- 15151X-19 Camera Kit for 381mm and 483mm Diameter Halogen, and 500 Watt, 1000 Watt and 2500 Watt Xenon Searchlights.

Medium Range Camera



Camera Specifications

- Sensor: 384 x 288 uncooled
- Field of View: 28° H x 21° V
- Temp Range: -40°C to +80°C
- Video Signal: NTSC or PAL
- Voltage/Power: 12VDC/15W
- Environmental Protection IP67
- Distance Serviced: *800 Meters

*Note: Distances approx. and based on size and heat signature of object.

Specify a Model

Model

Description

NF14400X-12Camera Kit for 305mm HalogenNF14400X-15Camera Kit for 381mm HalogenNF14400X-19Camera Kit for 483mm HalogenNF14400X-350Camera Kit for 350W XenonNF14400X-500Camera Kit for 500W XenonNF14400X-1000Camera Kit for 1000W XenonNF14400X-2500Camera Kit for 2500W Xenon

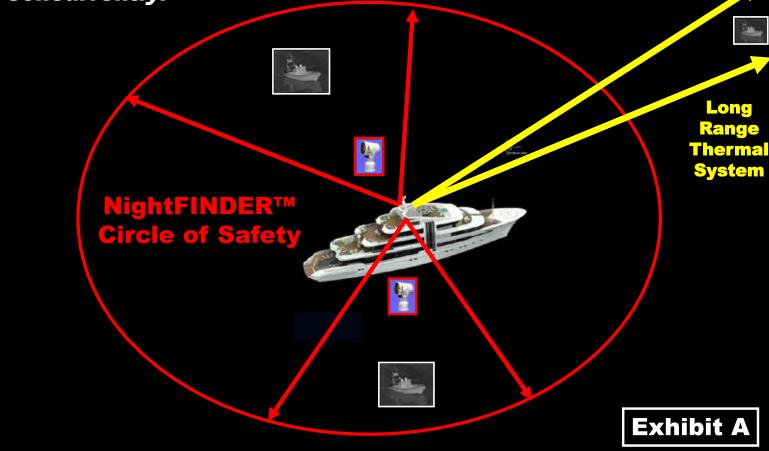




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COMPLETE SECURITY SOLUTION

<u>"A Complete Security Solution"</u>... Even the highest end long range Night Vision Systems can only see in one direction at one time. NightFINDERTM Systems help form a "Circle of Safety" around the vessel, seeing covertly on all sides concurrently!



"When the Paris Exhibition [of 1878] closes, electric light will close with it and no more will be heard of it."

-Oxford professor Erasmus Wilson





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Precise alignment of the Searchlight and Camera on the same target, allows them to track on that same target as the Pan/Tilt base moves. As a result, the Camera can be used as a "Covert Targeting Device" to strategically light up a person or object!



"Silence is sometimes the best answer."



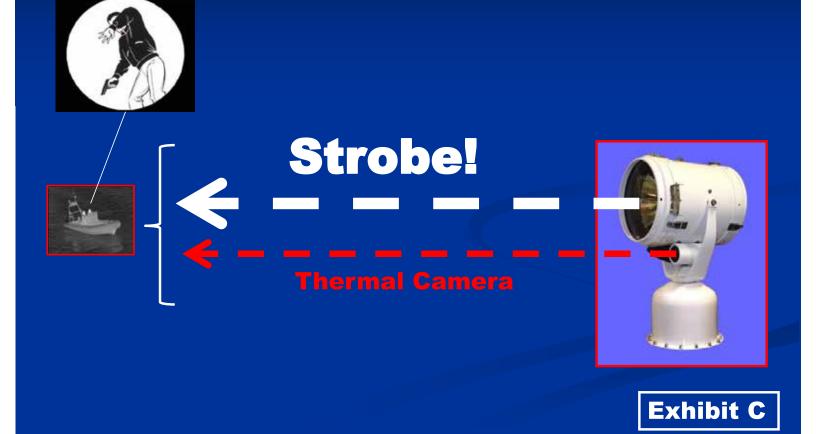
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-Old Hillbilly Wisdom

POWERFUL NONLETHAL WEAPON

"High Powered Strobe"... blinds and disorients the intruder, transforming the NightFINDER™ into a <u>Powerful Nonlethal Weapon</u>!



"When you wallow with pigs, expect to get dirty."

-Old Hillbilly Wisdom.

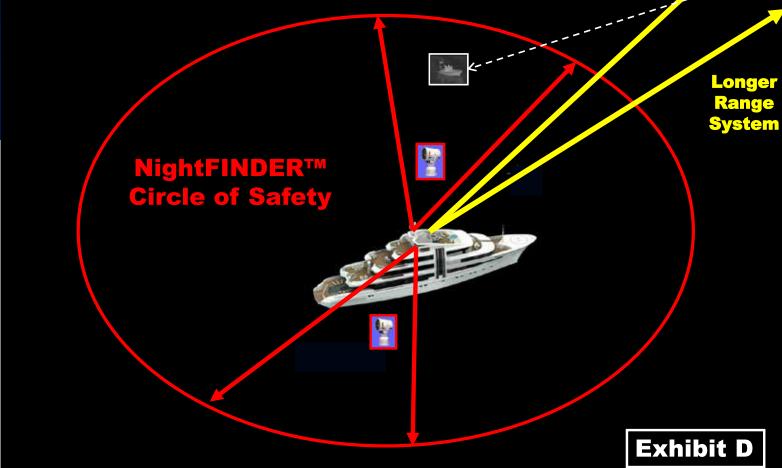




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CIRCLE OF SAFETY

<u>Works Strategically with other Systems</u>... Intruder is picked up by long range system first, then when comes closer, and enters "Circle of Safety", the NightFINDERTM Camera and Searchlight track on the same target together!



"Don't judge folks by their relatives."



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-Old Hillbilly Wisdom

