

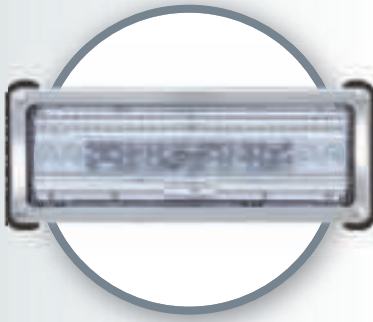
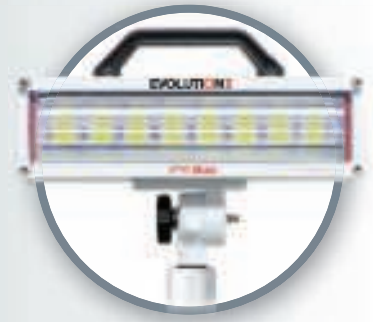
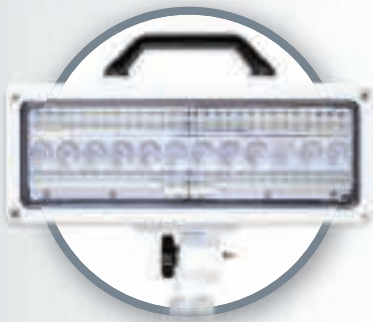
Lighting Solutions

HIGH INTENSITY SCENE LIGHTING



FRC

A Safe Fleet Brand



LED OVERVIEW 4 - 5

LED SCENE LIGHTING

Spectra 6
 Spectra Surface Mount 7
 Spectra MAX 8
 Spectra MAX Surface Mount 8
 Spectra MAX-S 9
 Spectra MS 10
 Spectra 900 11
 Evolution II 12 - 13

HALOGEN/HID SCENE LIGHTING

Optimum 14
 Optimum HID 15
 Focus 16 - 17
 Magnafire 18 - 19

LAMPHEAD GUIDE 20 - 21

TELESCOPIC POLES

TwistLock 22 - 23
 KwikRaze 24 - 25

RECESSED & SURFACE MOUNTS

Spectra / Spectra Max 26
 Spectra 900 26
 Evolution II 26
 Optimum 27
 Focus 27
 Magnafire 28
 KwikStrike 29

LIGHTING MOUNTS

TwistLock Tripods	30 - 31
KwikRaze Tripods	32
Portable	33
Non-Telescopic	34 - 35
Brow	36 - 37



LIGHTING OPTIONS	38 - 39
-------------------------	---------



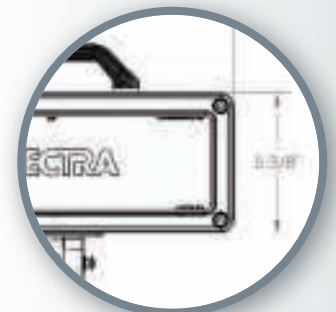
SPECIALIZED LIGHTING

SoBrite	40 - 41
Collins Dynamics FX	42
DuroLumen	43
Sunstrip	44
Firefly	45



TECHNICAL SPECIFICATIONS

Telescopic Poles	46 - 47
Tripods / Brackets / Mounts	48 - 49
Optimum Lampheads	50
Focus / Evolution II Lampheads	51
Spectra Series Lampheads	52
SoBrite	52
Sunstrip / Firefly	52
Magnafire / Collins / KwikStrike	53

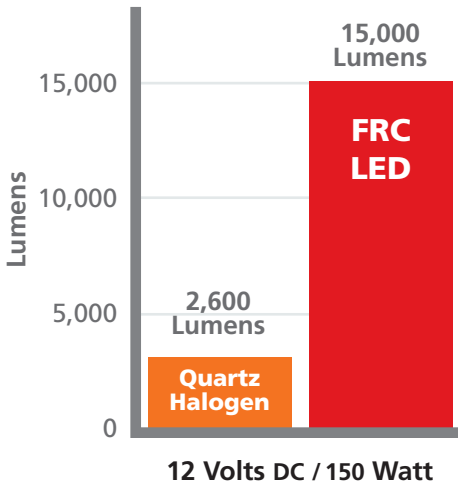


ORDERING INSTRUCTIONS	54 - 55
------------------------------	---------



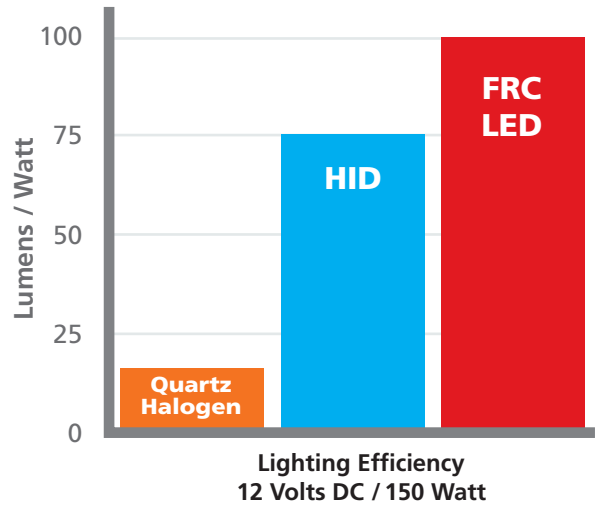
MORE Light LESS Power

LEDs Produce More Light



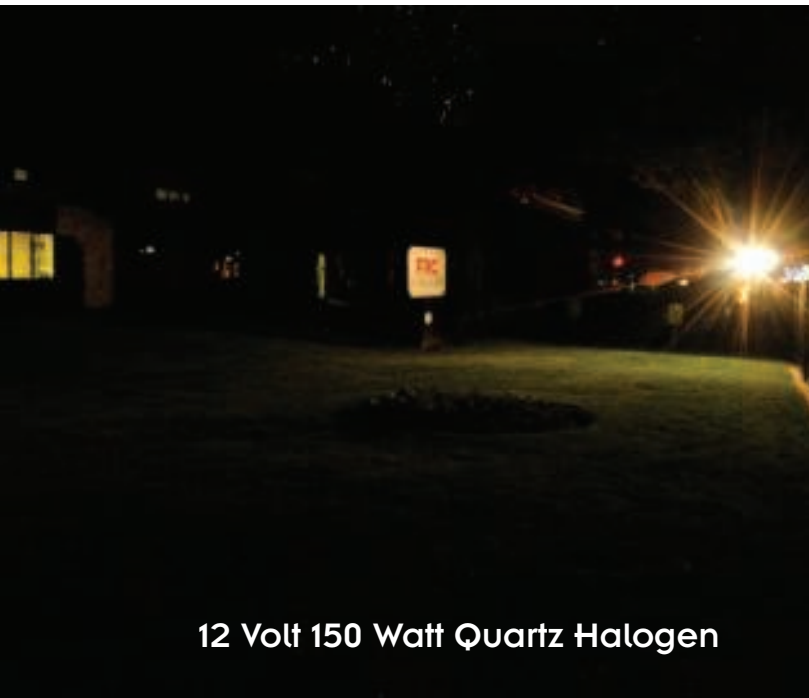
A quartz halogen bulb utilizes 8% of the energy supplied to produce light. By comparison, LEDs use 40% of the supplied energy to produce light.

LEDs Are More Efficient



LEDs produce more than 5 times the amount of light as an incandescent bulb while consuming the same amount of power.

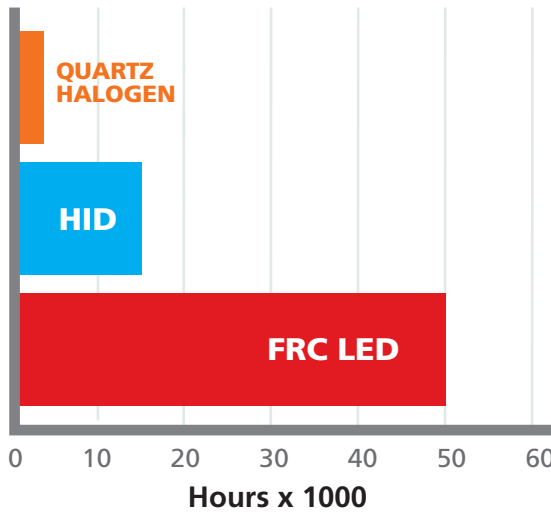
Actual side-by-side comparison of Halogen vs LED lighting



MORE Efficient LONGER Life

Different types of light sources that use the same amount of power (watts) can have very different luminous efficacy (lumens / watt) and therefore different lighting efficiency.

LEDs Outlast Traditional Bulbs



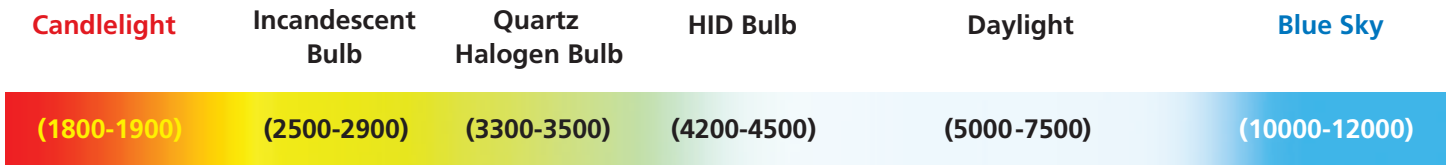
- The typical operational life of an LED is 50,000 hours compared to the average life of an incandescent bulb, which is approximately 2,000 hours.
- LEDs can operate well past the lifetime of the average apparatus.
- Because of their inherent solid state design without filaments, LEDs are much more rugged than incandescent bulbs and can better withstand shock and vibrations.

LED lighting is whiter, brighter, and will outlast traditional bulbs.



Fire Research LED lampheads are designed to operate in a range that is as close to natural daylight as possible.

Closer to Natural Daylight



Color Temperature (measured in Kelvins)



All FRC LED Lampheads are rated 5500 - 7000K. As close to natural daylight as a light can get.

Visible light has a color temperature scale from 1800 to 12,000 Kelvins (K). As you can see, a candle burns at around 1800K and a blue sky is at 10,000K. Daylight is between 5000K and 6500K. Different types of light sources emit a different color of light. The color of the light is measured in Kelvins and is not a measure of brightness.



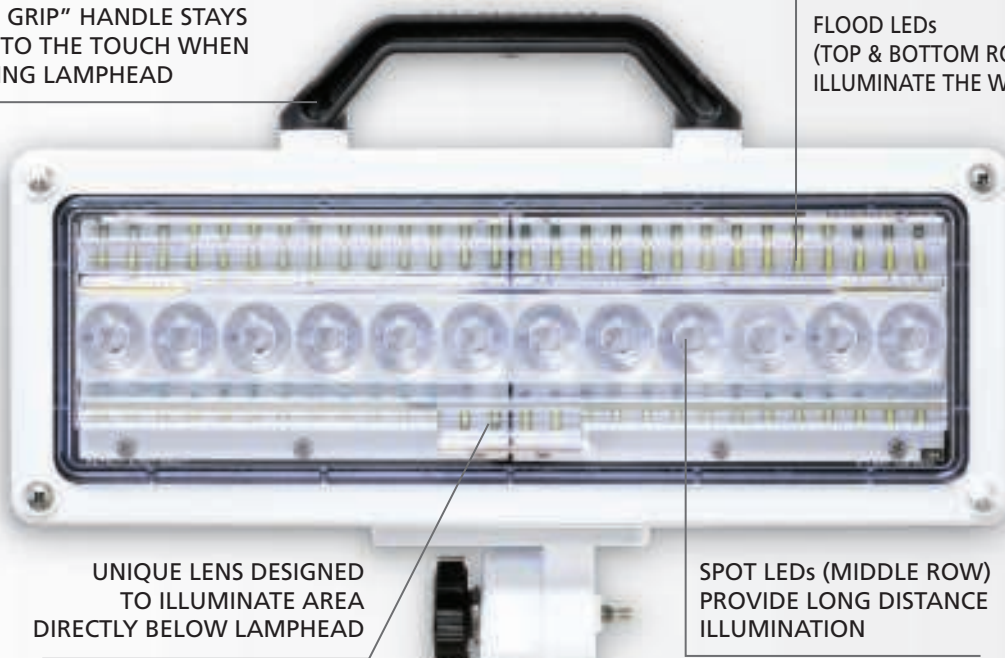
SPECTRA



20,000 Lumens of Bright Light

"SURE GRIP" HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMPHEAD

FLOOD LEDs (TOP & BOTTOM ROWS) ILLUMINATE THE WORK AREA



UNIQUE LENS DESIGNED TO ILLUMINATE AREA DIRECTLY BELOW LAMPHEAD

SPOT LEDs (MIDDLE ROW) PROVIDE LONG DISTANCE ILLUMINATION

Shown with standard white bezel-

black & chrome also available

- Slimmest LED Profile in the Industry
- Instant-On at Full Intensity
- Available in 15,000 or 20,000 Lumens
- Innovative Cooling Fins Provide Higher Efficiency
- Available on FRC Pole, Brow, Fixed or Surface Mounts
- Unique Combination of Flood / Spot LEDs
- Longer LED Life Rated at 50,000 Hours
- Five Year LED Lighting Warranty



FRC solutions. Puts All Light Directly on the Work Area & Scene Beyond

Exclusively from FRC

Three rows of LEDs - Top and bottom rows are flood LEDs designed to light up the work area. The middle row of focused spot LEDs provide long distance illumination.

SPECTRA's unique lens design provides a smooth and uniform flood and spot combination bringing firefighters the widest light pattern for improved work area visibility as well as illuminating objects at a farther distance.



SPECTRA's advanced lens design and arrangement of powerful LEDs deliver bright LED light where its needed



SPECTRA Surface Mount



15,000 Lumens of Bright Light

RUBBER GASKET
PROTECTS VEHICLE
SURFACE

SPOT LEDS PROVIDE
LONG DISTANCE ILLUMINATION

ROW OF FLOOD LEDs (TOP & BOTTOM)
ILLUMINATE THE WORK AREA

SLIMMEST PROFILE SURFACE MOUNT - ONLY 1 3/4"

UNIQUE LENS DESIGNED
TO ILLUMINATE AREA
DIRECTLY BELOW LAMPHEAD

Shown with standard chrome bezel - white and black also available



SPECTRA surface mount has an extremely low profile extending less than 1-3/4" from the panel.

- **Surface Mount LED Lamphead Generates a Combined Flood & Spot Light Pattern**
- **Slim Body Design Depth of Only 1 3/4" Keeps Lamphead Closer to Vehicle**
- **Surface Mount is Easier and Faster to Install**
- **Available in 12/24 VDC or 120/240 VAC**

AC surface mount model SPA260 requires 6 3/8" w x 4 11/16" h cut-out

SPECTRA MAX

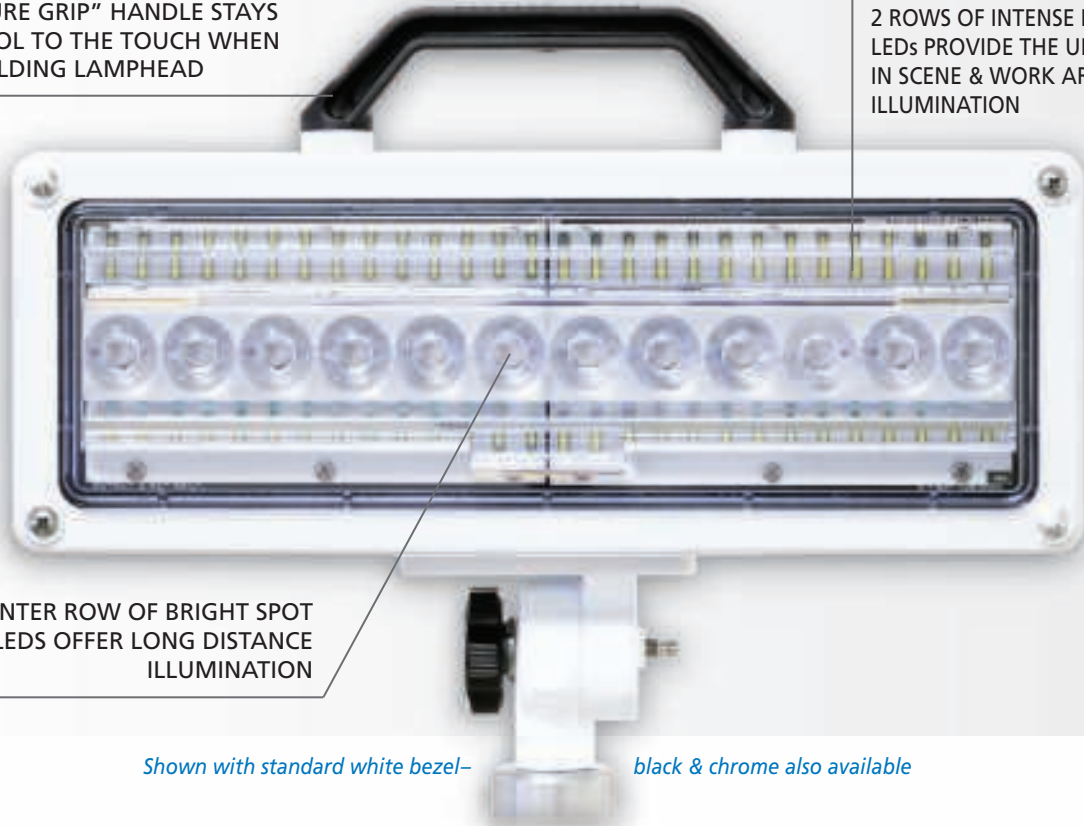


The Brightest LED Scene Light Available

"SURE GRIP" HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMP HEAD

2 ROWS OF INTENSE FLOOD LEDs PROVIDE THE ULTIMATE IN SCENE & WORK AREA ILLUMINATION

CENTER ROW OF BRIGHT SPOT LEDs OFFER LONG DISTANCE ILLUMINATION



Shown with standard white bezel-

black & chrome also available

28,000 Lumens of Ultrabright Light

- Available in 12/24 VDC or 120/240 VAC
- Choose Pole, Brow, Fixed or Surface Mounts

The Brightest Surface Mounted LED Lamphead Available



SPECTRA-MAX Surface Mount

- 20,000 Lumens of ultrabright light to improve vehicle performance



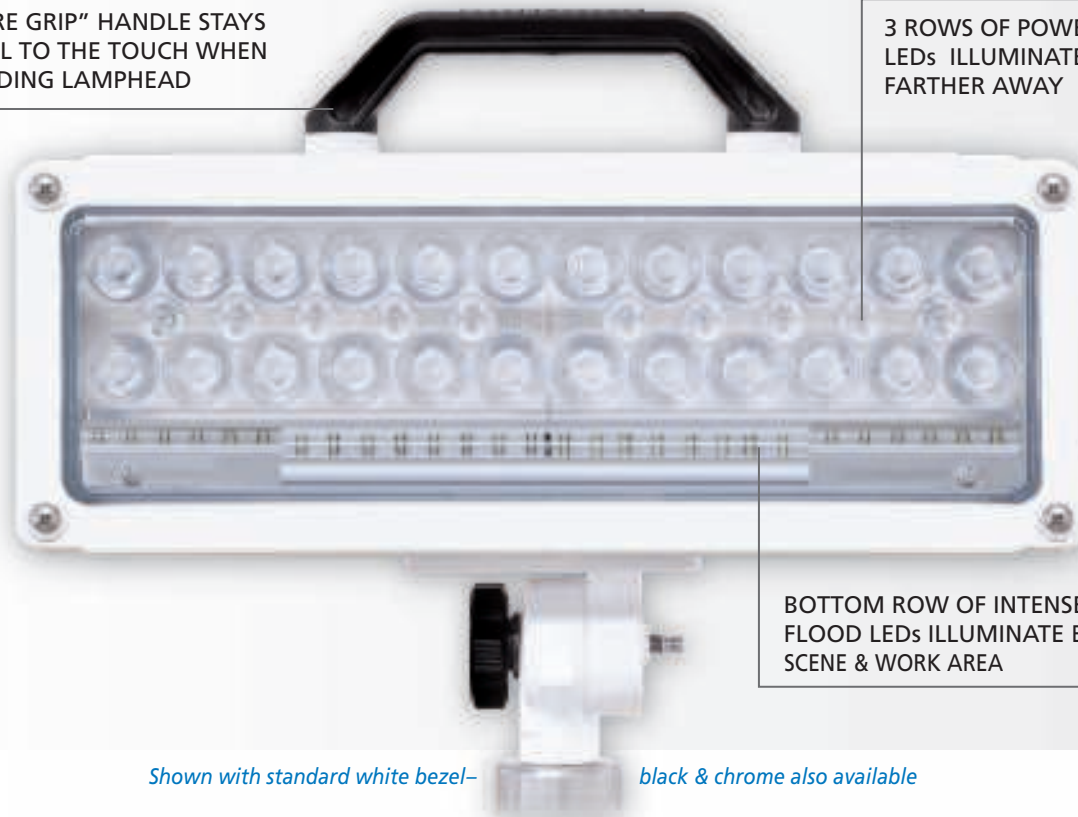
SPECTRA **MAX-S**



Maximum Spot & Flood Light Capability

"SURE GRIP" HANDLE STAYS COOL TO THE TOUCH WHEN HOLDING LAMPHEAD

3 ROWS OF POWERFUL SPOT LEDs ILLUMINATE OBJECTS FARTHER AWAY



BOTTOM ROW OF INTENSE FLOOD LEDs ILLUMINATE ENTIRE SCENE & WORK AREA

Shown with standard white bezel—

black & chrome also available

28,000 Lumens of Bright Spot / Flood Light

- SPECTRA MAX-S combines a flood light with an intense long-distance spotlight to let you see objects farther away
- Select Spot (14,000 Lumens) or Flood (14,000 Lumens) Light Patterns or 28,000 Lumens Spot/Flood Combination
- Available in 12/24 VDC or 120/240 VAC
- Choose Pole, Brow, or Fixed Mounts



SPECTRA MAX Series Lampheads deliver maximum scene & work area visibility

SPECTRA **MS**



Slim, Compact & Powerful



14,000 Lumens of Bright Light

- SPECTRA MS combines spot & flood LEDs for a uniform light pattern
- Compact & Powerful - Measures just 8 3/4" wide by 3 1/4" deep
- Efficient - More LED Light Using Less Power
- Economical LED solution for Upgrading Your Vehicle
- Available in 12/24 VDC or 120/240 VAC
- Choose Pole, Brow, or Fixed Mounts

SPECTRA 900



UltraBright Scene Lighting for **Emergency Response Vehicles**



SLIM PROFILE SURFACE MOUNT - ONLY 1 3/4"

RUBBER GASKET PROTECTS VEHICLE SURFACE

Shown with standard chrome bezel - black also available

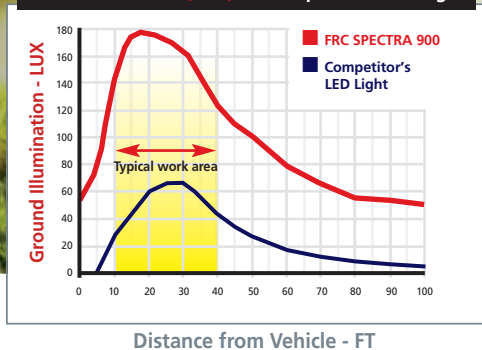
- UltraBright 7,000 Lumens Light Output Using 24 White LEDs
- Completely Waterproof Even if Light is Fully Submerged
- Easy to Install, No Panel Cut-Out
- Innovative Lens Focuses 100% of the Light Directly Where it is Needed

Significantly Outperforms Competitor's Lights

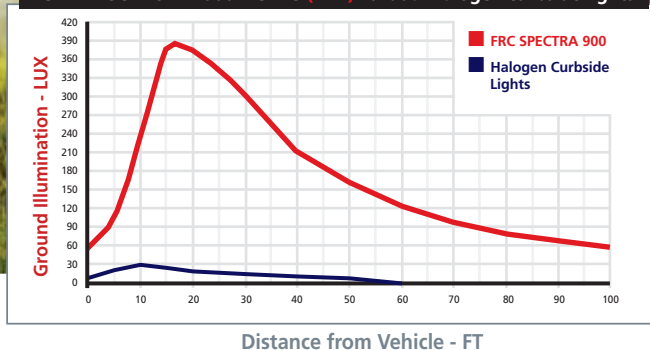
FRC SPECTRA 900 LED Illumination

Quartz Halogen Illumination

FRC SPECTRA 900 (RED) vs. competitor's LED light

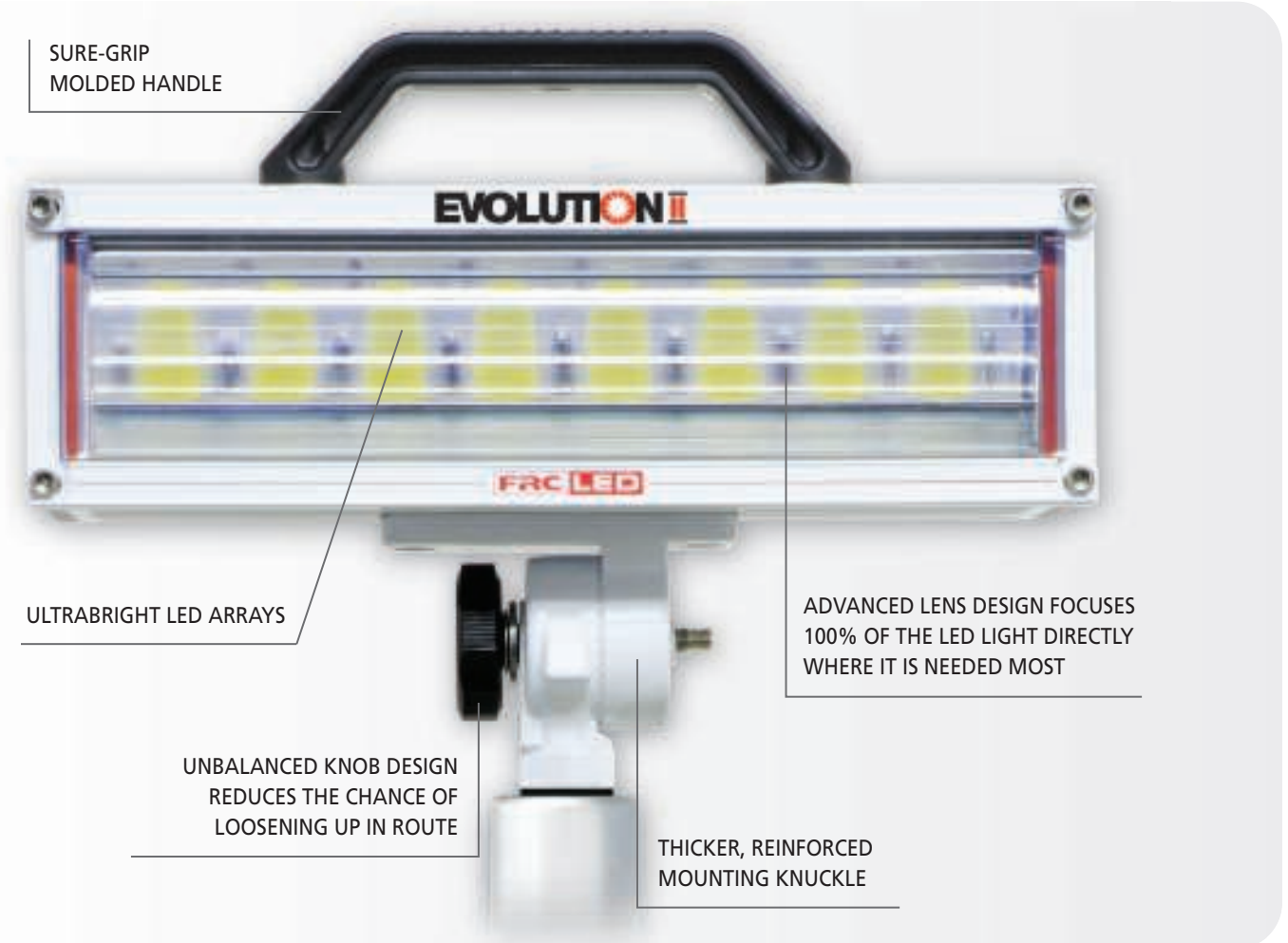


DUAL FRC SPECTRA 900 LIGHTS (RED) vs. dual halogen curbside lights.



EVOLUTION II

The Cost Effective, Affordable LED Solution.
Ideal for Upgrading Your Existing Fleet



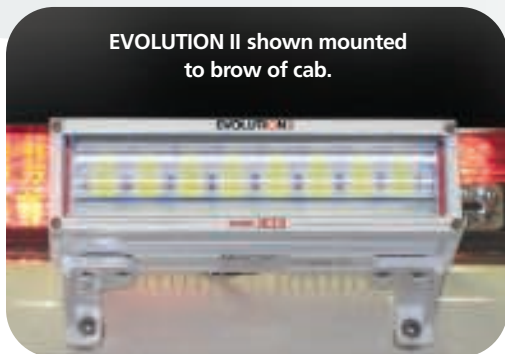
EVOLUTION II lampheads easily mount to emergency warning lightbars.

20,000 Lumens of Bright Light



- Brighter Light - More than 20,000 Lumens of UltraBright LED Light
- Whiter Light – Closest Thing to Natural Sunlight
- Uniform High Quality White Light with the Widest Light Pattern
- Long Operating Hours – Rated at 50,000 Hours
- Parabolic Reflector & Lens Designed to Direct All the Light Onto the Scene
- Lamphead Can Be Used With 12 or 24 Volt DC systems (13/6.5 amps)
- Full Brightness at Power On - Instant Restarts

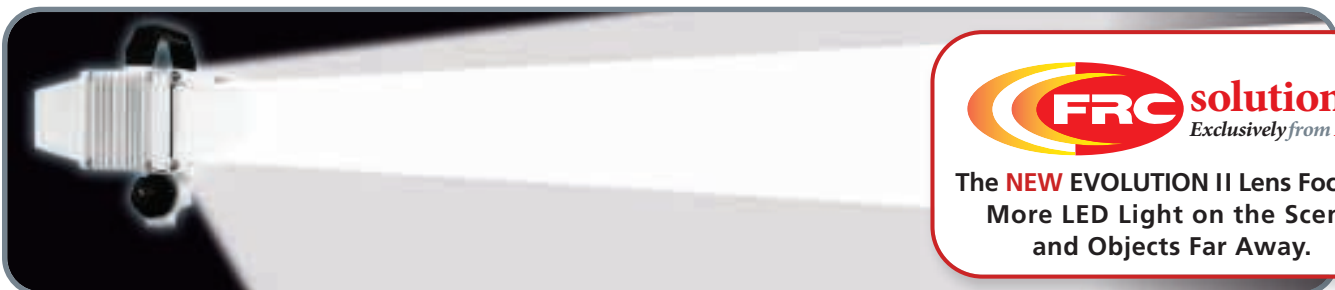
EVOLUTION II MS is compact with an ultrabright light output of 11,000 lumens.



Evolution II fits all mounts.
Easily upgrades your existing vehicles.



Advanced Lens Design **See All the Action Further Away!**



FRC solutions.
Exclusively from FRC

The **NEW** EVOLUTION II Lens Focuses More LED Light on the Scene and Objects Far Away.



SURE-GRIP
MOLDED HANDLE

TOUGH
ALUMINUM
HOUSING

SOCKET HEAD
SCREWS FOR
GREATER
SERVICEABILITY
DURING THE LIFE OF
THE PRODUCT

LARGE, ROUND KNOB MAKES
OPERATION WITH A GLOVED
HAND EASIER

LARGE CURVED LENS FOR
MAXIMUM LIGHT
TRANSMISSION AND GREATER
HEAT DISSIPATION

PRODUCES A WIDE UNIFORM 150° HORIZONTAL
BEAM TO LIGHT THE AREA

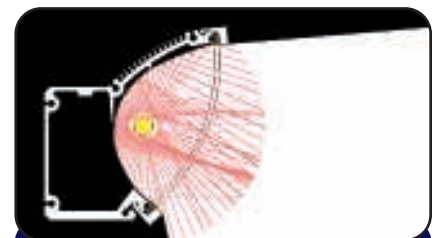
A Revolutionary Design

The **OPTIMUM** is a revolutionary lamphead that puts more light on the scene without the need for an increase in power. The **OPTIMUM** lamphead provides the maximum transfer of light from the bulb to the scene.

Setting the Trend

The **OPTIMUM** uses a uniquely designed, vacuum deposit, polished reflector to maximize light emission. **OPTIMUM's** large curved front lens and exclusive "head down" shape produce a uniform beam that lights up an area 100° vertically by 150° horizontally. The **OPTIMUM** lamphead has been designed to take advantage of the HID (High Intensity Discharge) bulb. The HID is offered with both 70 and 150 watt bulbs that operate at 12 or 24 VDC and produce light up to 11,250 lumens without the need of a generator.

ADVANCED TECHNOLOGY



*A cross section of an **OPTIMUM** lamphead showing its unique reflector that directs 100% of the light onto the work and action areas.*



INSTANT RESTRIKE WHEN THE BULB IS STILL HOT

BLACK HEATSINK IMPROVES HEAT DISSIPATION FOR LONGER LIFE



No Generator, No Problem

Operates from the vehicle DC battery system – no generator needed.

Fire Research uses high output, metal halide bulbs for all of our HID lights.

High Energy Efficiency

More Lumens

Metal Halide bulbs generate 75 lumens per watt. A 150 watt Metal Halide bulb provides 4 to 5 times the lumen output when compared to a 150 watt quartz halogen bulb.

Longer Life

Metal Halide bulbs last 7 times longer than quartz halogen bulbs and even though the initial cost is higher, Metal Halides have a lower total operating cost over the life of the bulb.

Excellent Light Color

The output light from a Metal Halide bulb is closer to natural sunlight than most other light sources. This white light is preferred because it provides better visual acuity and 4 to 5 times more light than quartz halogen bulbs.

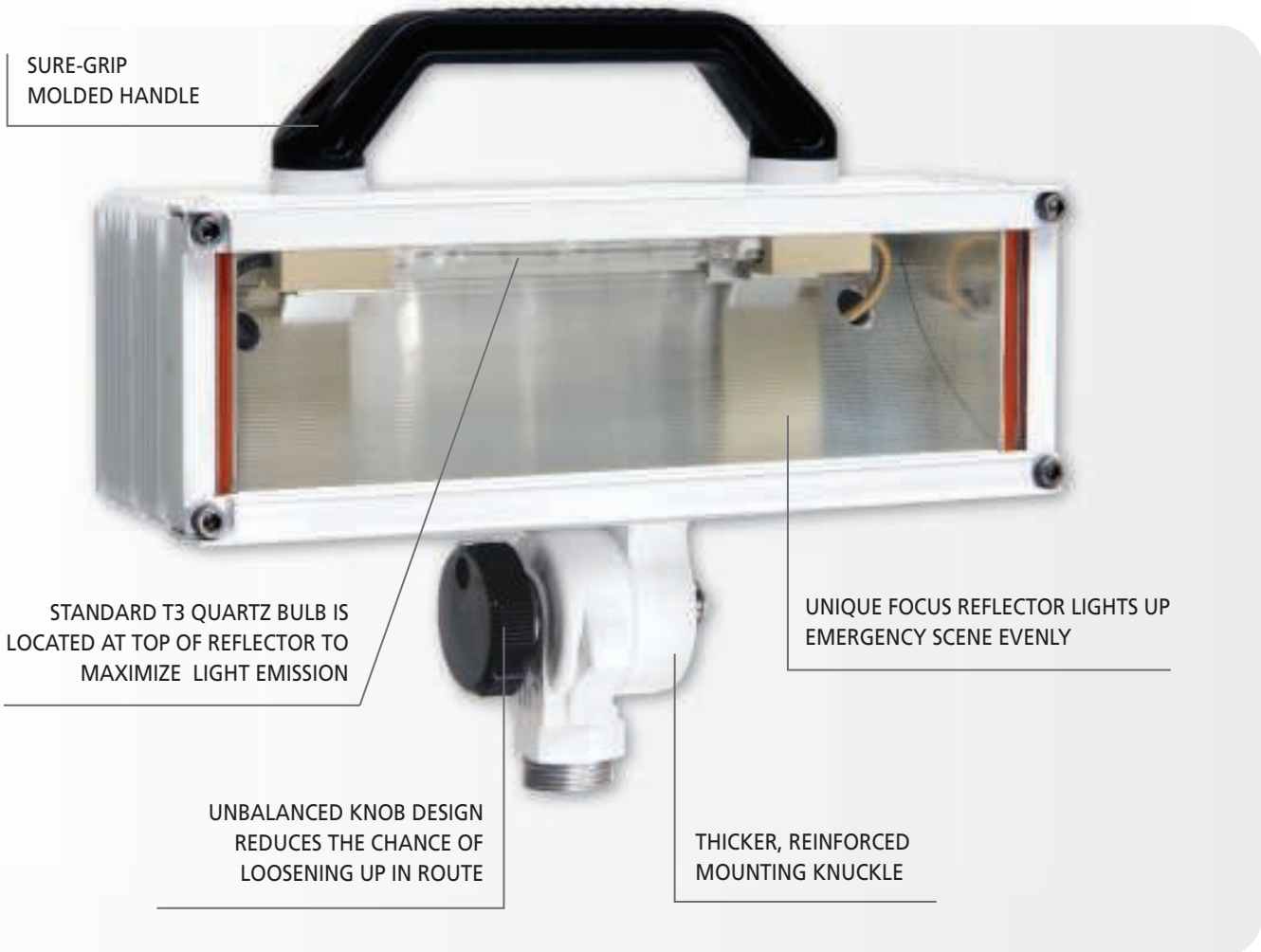


**120 VAC / 500W
Quartz Halogen**
10,500 Lumens



12 VDC / 150W HID
Resembles Daylight
11,250 Lumens

FOCUS®



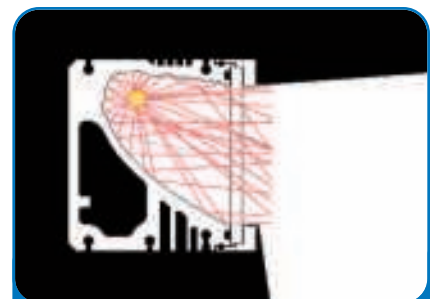
Don't Waste Precious Light

The high intensity FOCUS lamphead does not waste precious light. It is designed to focus 100% of the light produced into the area where it is needed. The FOCUS is built tough and has a compact design that allows it to be mounted in places that traditional lighting fixtures do not fit.

A Breakthrough In Scene Lighting

The FOCUS lamphead was designed to light up the emergency scene evenly, putting 100% of the light on the scene. A high percentage of the light produced by a conventional light fixture is wasted away from the emergency scene and gets dim at a distance. The FOCUS lamphead uses a uniquely designed patented reflector to eliminate wasted light. The curved reflector has over 50 parabolic surfaces that redirect all of the light produced and focus it evenly into the action areas. This allows the FOCUS to put all of the light onto the scene, providing more light close to the vehicle as well as being brighter at a distance.

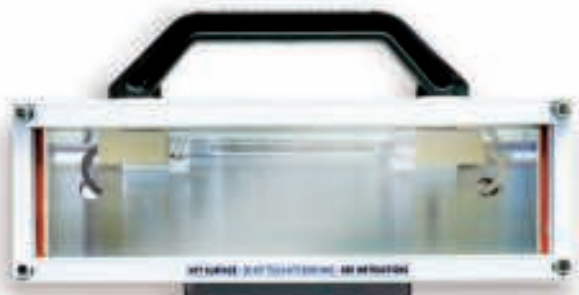
ADVANCED TECHNOLOGY



A cross section of the FOCUS lamphead showing its unique reflector surfaces that redirect light waves for even, bright scene lighting where it's most needed.

Versatile Low Profile Lamphood

Compact. Durable.



Many mounting options.

- Telescopic Pole
- Brow
- Portable
- Fixed
- Recessed
- Under Aerial



The Low Profile FOCUS lamphood provides the most mounting choices.



FOCUS
contour
brow mount
on cab



The FOCUS compact design can be mounted in places that traditional lighting fixtures do not fit.

MAGNAFiRE



ROUNDED PARABOLIC CORNERS INCREASE EFFICIENCY OF LAMP

ONE-PIECE LENS ASSEMBLY FOR QUICK BULB OR REFLECTOR REPLACEMENT

MIRROR-POLISHED REFLECTOR HAS INCREASED VERTICAL SURFACE AREA FOR MAXIMUM LIGHT



The **Magnafire** floodlight incorporates all of the features necessary for today's public safety professionals: High-intensity light output, compact design, and durability. Its mirror-polished reflector has increased vertical surface area and rounded parabolic corners for optimum efficiency. The result is a BRIGHT, SMOOTH floodlight beam pattern that lets you put light where you need it.

Economical and Reliable

Magnafire 5000



Magnafire 3000



Strength and Simplicity










Magnafire lamphead housing, switch box, swivel knuckle, and lens frame are made from die-cast aluminum rather than extruded parts. This rugged die-cast construction ensures years of reliable service.



Service Made Easy

The one-piece lens assembly allows for easy field replacement of the bulb, lens, and reflector.

SPECTRA SERIES

12V•24V  IP68	 Q15 12/24V 13.9/6.9A 15,000 Lumens
	 Q20 12/24V 18.3/9.2A 20,000 Lumens
120V  IP68	 K15* 120 V 1.4A 15,000 Lumens
	 K20 120 V 1.8A 20,000 Lumens
240V  IP68	 J15* 240 V 0.7A 15,000 Lumens
	 J20 240 V 0.9A 20,000 Lumens










* Surface mount SPECTRA models only



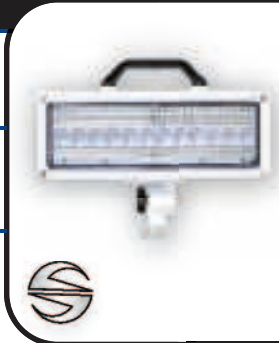
SPECTRA

SPECTRA LED Lampheads output an impressive 20,000 lumens of super bright LED light. The advanced lens and arrangement of LEDs generate a unique combination flood and spot light pattern.

SPECTRA MAX SERIES

12V•24V IP68 	 Q20* 12/24V 13.8/6.9A 20,000 Lumens
	 Q28 12/24V 19.2/9.6A 28,000 Lumens
120V  IP68	 K20* 120 V 1.4A 20,000 Lumens
	 K28 120 V 2.8A 28,000 Lumens
240V  IP68	 J20* 240 V 0.7A 20,000 Lumens
	 J28 240 V 1.4A 28,000 Lumens







* Surface mount SPECTRA MAX models only



SPECTRA MAX

SPECTRA MAX Lampheads deliver 28,000 lumens of ultrabright LED light in a uniform light pattern providing maximum scene & work area visibility.

SPECTRA MAX-S SERIES







12V•24V IP68 	 A28 12/24V 20.8/10.4A 28,000 Lumens
120V  IP68	 B28 120 V 2.8A 28,000 Lumens
240V  IP68	 C28 240 V 1.4A 28,000 Lumens



SPECTRA MAX-S

SPECTRA MAX-S Lampheads output 28,000 lumens of ultrabright LED light. The lamphead combines a flood light with an intense long distance spotlight to let you see objects farther away.

SPECTRA MS SERIES



12V•24V IP68 	 R14 12/24V 10.8/5.4A 14,000 Lumens
120V  IP68	 T14 120 V 1.4A 14,000 Lumens
240V  IP68	 U14 240 V 0.7A 14,000 Lumens



SPECTRA MS

SPECTRA MS LED Lampheads are slim, compact, and provide an efficient 14,000 lumens of bright LED light.

SPECTRA 900 SERIES

12V•24V 	 Q70 12/24 V 6.0/3.0A 7,000 Lumens
---	---



SPECTRA 900

SPECTRA 900 LED flood and loading light was designed specifically for Ambulance and Emergency Response Vehicles. This surface mount light is easy to install with NO PANEL CUT OUT required.

BULB DESCRIPTIONS

- Quartz Halogen
- ◆ High Intensity Discharge (HID)
- Light Emitting Diode (LED)

EVOLUTION II

EVOLUTION II low profile LED lampheads generate up to 20,000 lumens of ultra bright white light. The unique LED arrays and lens produce more usable light in a compact lamphead. **EVOLUTION II** lampheads are available with all FRC telescopic poles, fixed, and brow mounts.



EVOLUTION II SERIES

12V•24V e8 030116 IP68	■	V11	12/24 V	7.5A/3.75A	11,000 Lumens
	■	V15*	12/24 V	11.0A/5.5A	15,000 Lumens
	■	V20	12/24 V	13.0A/6.5A	20,000 Lumens

* Recessed EVOLUTION II model only

OPTIMUM

OPTIMUM Lampheads utilize a super-efficient design to offer a maximum transfer of light from bulb to scene. Includes HID bulb option not available on classic FOCUS lights.



OPTIMUM SERIES

12V•24V e11 023547	◆	H70	70W	12V	6.0A	5,000 Lumens
	◆	H15	150W	12V	12.5A	11,250 Lumens
	◆	E70	70W	24V	3.0A	5,000 Lumens
	◆	E15	150W	24V	6.25A	11,250 Lumens
120V ETL CE	●	S30	300W	120V	2.5A	5,900 Lumens
	●	S50	500W	120V	4.2A	10,500 Lumens
	●	S75	750W	120V	6.3A	19,600 Lumens
	●	M10	1000W	120V	8.3A	22,000 Lumens
240V ETL CE	●	S72	750W	240V	3.1A	16,100 Lumens
	●	M12	1000W	240V	4.2A	22,000 Lumens
	●	M15	1500W	240V	6.25A	35,000 Lumens

FOCUS®

FOCUS Low Profile Lampheads were the first lampheads to introduce the concept of re-directing light with fifty parabolic curved and aimed surfaces. The innovative design directs light where it is needed.



The low profile of the classic FOCUS offers mounting options that many other lights cannot.

FOCUS SERIES

12V•24V CE	◆	H70*	70W	12V	6.0A	5,000 Lumens
	◆	H15*	150W	12V	12.5A	11,250 Lumens
	●	D15	150W	12V	12.5A	2,600 Lumens
	●	D30	300W	12V	25.0A	5,200 Lumens
	●	H30	300W	24V	12.5A	5,000 Lumens
	* Models FCA800, FCA830, and FCA850 only					
120V UL CE	●	S30	300W	120V	2.5A	5,900 Lumens
	●	S50	500W	120V	4.2A	10,500 Lumens
	●	S75	750W	120V	6.3A	19,600 Lumens
	●	M10	1000W	120V	8.3A	22,000 Lumens
240V UL CE	●	S72	750W	240V	3.1A	16,100 Lumens
	●	M12	1000W	240V	4.2A	22,000 Lumens
	●	M15	1500W	240V	6.25A	35,000 Lumens

MAGNAFIRE

The **MagnaFire lampheads** incorporate all of the features necessary for today's public safety professionals: High-intensity light output, compact design, and durability. Its mirror-polished reflector has increased vertical surface area and rounded parabolic corners for maximum efficiency.



MagnaFire 3000 SERIES

120V ETL CE	●	KR-33	350W	120V	2.7A	9,600 Lumens
	●	KR-35	500W	120V	4.2A	10,500 Lumens
	●	KR-36	750W	120V	6.3A	20,600 Lumens
240V ETL CE	●	KR-37	750W	240V	3.2A	16,100 Lumens
	●	KR-3B	1000W	240V	4.2A	21,500 Lumens
	●	KR-3D	1500W	240V	6.3A	35,800 Lumens

MagnaFire 5000 SERIES

120V ETL CE	●	KR-53	350W	120V	2.7A	9,600 Lumens
	●	KR-55	500W	120V	4.2A	10,500 Lumens
	●	KR-56	750W	120V	6.3A	20,600 Lumens
240V ETL CE	●	KR-57	750W	240V	3.2A	16,100 Lumens

TWISTLOCK Telescopic Poles



- All FRC telescopic poles are made of anodized aluminum for maintenance free performance and longer service life.
- All extension poles rotate 360°.
- All extension poles have the exclusive twist lock mechanism to secure the pole in position.
- All standard extension poles have a four foot retractable cord extending from the bottom for direct wiring.
- All outer tubes have a grooved surface.
- All pole mounted lampheads have a pivot in the mounting arm with a knurled knob to adjust the angle of elevation.



Model 510

Top Mount, Pull Up Telescopic Pole

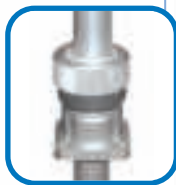
- 3.25" round mounting flange is standard
- 2.5" square flange is available on the 510C and 510E (see insets)

OPTIONS:

- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)



Model 510C
Model 510 pole with a Square Flange Option



Model 510E
Model 510 pole with a Square Flange Option for mounting in a 3" extrusion



Model 512

Thru The Roof, Push Up Telescopic Pole

- Extension pole has a knurled aluminum push-up handle
- A round, "no drip" mounting flange is provided



OPTIONS:

- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)
- SR (steady rest bottom bracket)



Model 530

Side Mount, Push Up Telescopic Pole

- Extension pole has a knurled aluminum push-up handle
- Outer tube is grooved aluminum extrusion and qualifies as an NFPA compliant handrail
- Standard outer tube (shown) is 20". Choosing an optional 10" outer tube allows for a 40" extension

OPTIONS:

- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)
- SR (steady rest bottom bracket)
- ST (10" outer tube)



Patented Safety Twist Lock

- Easy to use and can be operated in either direction.
- It can not jam or be over tightened.
- There is no protruding handle to snag gear or straps on.
- Knurled surface for a firm grip.
- The locking mechanism has no metal to metal contact. This spares the anodized aluminum poles from unnecessary wear and tear.





Model 540
Side Mount, Pull Up Telescopic Pole

- An internal brake slows the extension pole during lowering
- Outer tube is grooved aluminum extrusion and qualifies as an NFPA compliant handrail

OPTIONS:

- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)



Model 542
Side Mount, Pull Up Telescopic Pole

- Outer tube is grooved aluminum extrusion and qualifies as an NFPA compliant handrail
- Standard outer tube (shown) is 20". Choosing an optional 10" outer tube allows for a 43" extension

OPTIONS:

- CL (custom length pole)
- SW (raised pole switch and indicator)
- TW (wire out of the top of the pole)
- ST (10" outer tube)

All FRC pole brackets are adjustable along the pole.

Side Mount Brackets

Supplied as Pair



-A

The 2.75" side mount brackets are standard on poles with SPECTRA, and OPTIMUM lampheads (excluding HID).



-H

The 3.5" brackets are standard on poles with EVOLUTION II and FOCUS lampheads.



-B

Side mount brackets with a 5" offset. Standard on poles used with OPTIMUM HID lampheads.

-C

Side mount brackets with a 7" offset.

Optional Mounts



-SR

Optional Steady Rest

Steady Rest bracket provides added bottom support for "inside pole" when it is in the retracted (down) position. Bracket can be used with 512 and 530 push-up poles.



-F

Optional Flush Mount

Flush mount brackets allow poles to securely mount flush to a surface. Total width is 3.875". Supplied as pair.



Grooved Grab Handle

- FRC's exclusive GRAB-HANDLE is a standard feature on all 530, 540 and 542 telescopic poles.
- It provides a secure grip when wearing heavy gloves.
- The grab handle qualifies as an NFPA compliant handrail.

KWIKRAZE Telescopic Poles



Single Bolt Mounting

- Machined from solid billet aluminum for strength and durability
- Enhanced appearance with bright dip anodize finish
- Compact design reduces mounting surface area by 80% to allow for more versatile applications
- Each set of brackets can hold over 1200 lbs.

Model 200	Model 300	Model 400
<p>Side Mount, Pull Up Telescopic Pole</p> <ul style="list-style-type: none"> • 48" inner telescoping pole, 58" outer pole • Concealed coil cord 	<p>Thru Body, Pull Up Telescopic Pole</p> <ul style="list-style-type: none"> • 48" inner telescoping pole, 58" outer pole • Concealed coil cord 	<p>Thru Body, Push Up Telescopic Pole</p> <ul style="list-style-type: none"> • 48" inner telescoping pole, 12" outer pole • Concealed coil cord
<p>OPTIONS:</p> <ul style="list-style-type: none"> -I (raised pole switch and indicator) -NCW (non-concealed wire) 	<p>OPTIONS:</p> <ul style="list-style-type: none"> -I (raised pole switch and indicator) -NCW (non-concealed wire) 	<p>OPTIONS:</p> <ul style="list-style-type: none"> -I (raised pole switch and indicator) -NCW (non-concealed wire) -R (lower receiver bracket)



Optional Mounts

-R
Lower Receiver Bracket
 Provides additional support when mounting push-up poles.



-WxP
Bracket Mounting Plate

- Makes bolting equipment to light-gauge body walls stronger
- Hardware and gasket included
- Adds 1/2" to any offset bracket



x = length in inches

Model 500
Side Mount, Push Up Telescopic Pole

- 67.5" inner telescoping pole, 24" outer pole
- Concealed coil cord

OPTIONS:

- I (raised pole switch and indicator)
- NCW (non-concealed wire)
- R (lower receiver bracket)





Model 900
Economy Thru Body, Pull Up Telescopic Pole

- 48" inner telescoping pole
- Concealed coil cord

OPTIONS:

- I (raised pole switch and indicator)
- NCW (non-concealed wire)




Model 1100
Remote Side Mount, Push Up Telescopic Pole


- 67.5" inner telescoping pole, 24" outer pole
- Not available with concealed wire or switch

OPTIONS:

- I (raised pole switch and indicator)



Side Mount Brackets
 Supplied as Pair

- Water-Tight Locking Collar
 - W1** Flush Mount 1.5" Offset
 - W2** 2" Offset Bracket
 - W4** 4" Offset Bracket
 - W7P** 7" Offset Bracket with plate
- 



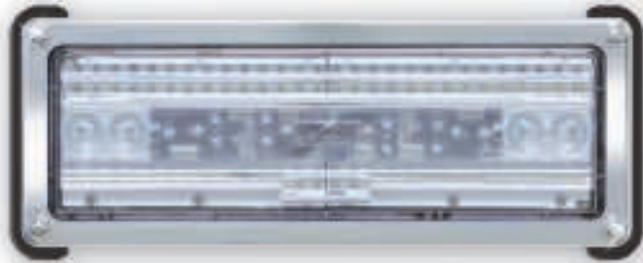

Two-Piece Side Mount Brackets
 Allows poles to be easily installed & removed from the truck for service without removing the brackets from the truck.



SPECTRA SERIES

Model **SPA260**

Lowest Profile LED Surface Mount



AC surface mount model SPA260 requires a 6 3/8" w x 4 11/16" h cut-out

- Unique Arrangement of LEDs Generate a Combined Flood & Spot Light Pattern
- Available in 15,000 Lumens Spectra and 20,000 Lumens Spectra Max
- Available in 12/24 VDC or 120/240 VAC

SURFACE MOUNTS AVAILABLE FOR
SPECTRA Q15, K15, J15 & **SPECTRA MAX** Q20, K20, & J20

SPECTRA 900

Model **SPA900**



- Ideal for Ambulances & Emergency Response Vehicles
- UltraBright 7,000 Lumens of Light

SURFACE MOUNTS AVAILABLE FOR
SPECTRA 900 Q70

EVOLUTION II RECESSED

Model **FCA210**



Generates 15,000 Lumens of Light

Recess requires only 2" of depth



Models **OPA200 OPA230 OPA250**



Vehicle recessed lights are required to provide work light for firefighters or EMT personnel at an emergency scene. The unique light pattern from the OPTIMUM or FOCUS lamphead is ideal for focusing light on the work area and scene evenly without having to adjust or tilt the lamphead. Recessed lights can be mounted into the exterior vehicle wall for applications where side mounted poles or fixed mounts are not practical. The bezel and glass are removable from the front of the fixture (by removing 4 cap head screws) for easy access to the bulb as needed. The OPA200 and OPA250 are available with bulb sizes from 300W



to 1500W. The OPA230 is available with HID bulbs from 70W to 150W. The FCA200 is available with bulb sizes from 150W to 1000W.

RECESSED LIGHTS AVAILABLE FOR
OPTIMUM S30, S50, S75, S72, M10, M12, M15
 (H70, H15, E15, E70, available with OPA230 only)

to 1500W. The OPA230 is available with HID bulbs from 70W to 150W. The FCA200 is available with bulb sizes from 150W to 1000W.

FOCUS®

Model **FCA200**

RECESSED LIGHTS AVAILABLE FOR
FOCUS D15, D30, H30, S30, S50, S75, S72, M10, M12



MAGNAFIRE

Model KR-1800 2.5" Recessed Mount

- Polished aluminum housing with Magnafire light fixture positioned at 0° horizontal angle
- Magnafire 3000 requires 14.25" x 5" cutout for in-body mounting (Recessed depth is 2.5")

Model KR-1900 2.5" Recessed Mount

- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Magnafire 3000 requires 14.25" x 5" cutout for in-body mounting (Recessed depth is 2.5")

Models KR-2100/2800 2" Recessed Mount

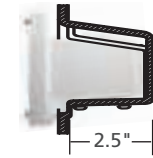
- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Housing designed to protect the light fixture
- Magnafire 3000 requires 13.5" x 4.5" cutout for in-body mounting (Recessed depth is 2")
- Magnafire 5000 requires 10" x 5" cutout for in-body mounting (Recessed depth is only 2")

Models KR-2200/2900 5.5" Flush Recessed Mount

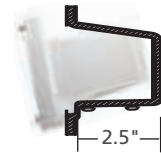
- Polished aluminum housing with Magnafire light fixture positioned at 0° horizontal angle
- Magnafire 3000 requires 14.375" x 7.125" cutout for in-body mounting (Recessed depth is 5")
- Magnafire 5000 requires 10.5 x 7.5" cutout for in-body mounting (Recessed depth is 5")

Models KR-2300/3100 5.5" Flush Recessed Mount

- Polished aluminum housing with Magnafire light fixture positioned at 10° downward angle
- Magnafire 3000 requires 14.375" x 7.125" cutout for in-body mounting (Recessed depth is 5.5")
- Magnafire 5000 requires 10.5" x 7.5" cutout for in-body mounting (Recessed depth is 5.5")



KR-1800



KR-1900



KR-2100 & 2800



KR-2200 & 2900



KR-2300 & 3100



KR-1900 Series Mount



KR-2100 Series Mount



KR-2200 Series Mount

Magnafire 3000® Light Heads

Part #	Recessed Depth	Light Angle Position	KR-33 350w 120v	KR-36 750w 120v	KR-37 750w 240v
KR-1800	2.5"	0° horizontal	KR-1833	KR-1836	KR-1837
KR-1900	2.5"	10° downward	KR-1933	KR-1936	KR-1937
KR-2100	2"	10° downward	KR-2133	KR-2136	KR-2137
KR-2200	5.5"	0° horizontal	KR-2233	KR-2236	KR-2237
KR-2300	5.5"	10° downward	KR-2333	KR-2336	KR-2337

Magnafire 5000® Light Heads

Part #	Recessed Depth	Light Angle Position	KR-53 350w 120v	KR-55 500w 120v	KR-56 750w 120v	KR-57 750w 240v
KR-2800	2"	10° downward	KR-2853	KR-2855	KR-2856	KR-2857
KR-2900	5"	0° horizontal	KR-2953	KR-2955	KR-2956	KR-2957
KR-3100	5"	10° downward	KR-3153	KR-3155	KR-3156	KR-3157



KWIKSTRIKE

BODY & PERIMETER LIGHTS

Model **KR-4000**

This super bright flush mounted light draws only 3 amps. The 35 Watt 12V Xenon HID option features instant on & hot re-strike and is 4x brighter than halogen scene lights. Reflector options include a horizontal flood beam or a downward angle flood beam.

- 12v HID or 120v Halogen available
- 35 watt, 12v HID Model features instant "on" and hot restrike
- Flush Mount Fixture (1.875" deep) recesses cleanly in standard 2" truck wall
- Easy front access to ballast and lamp



Part as shown: KR-4035X-D-L

Available in chrome (standard) or white finish (optional)



Flush Mount Fixture



Perimeter Light with White Finish (Optional)

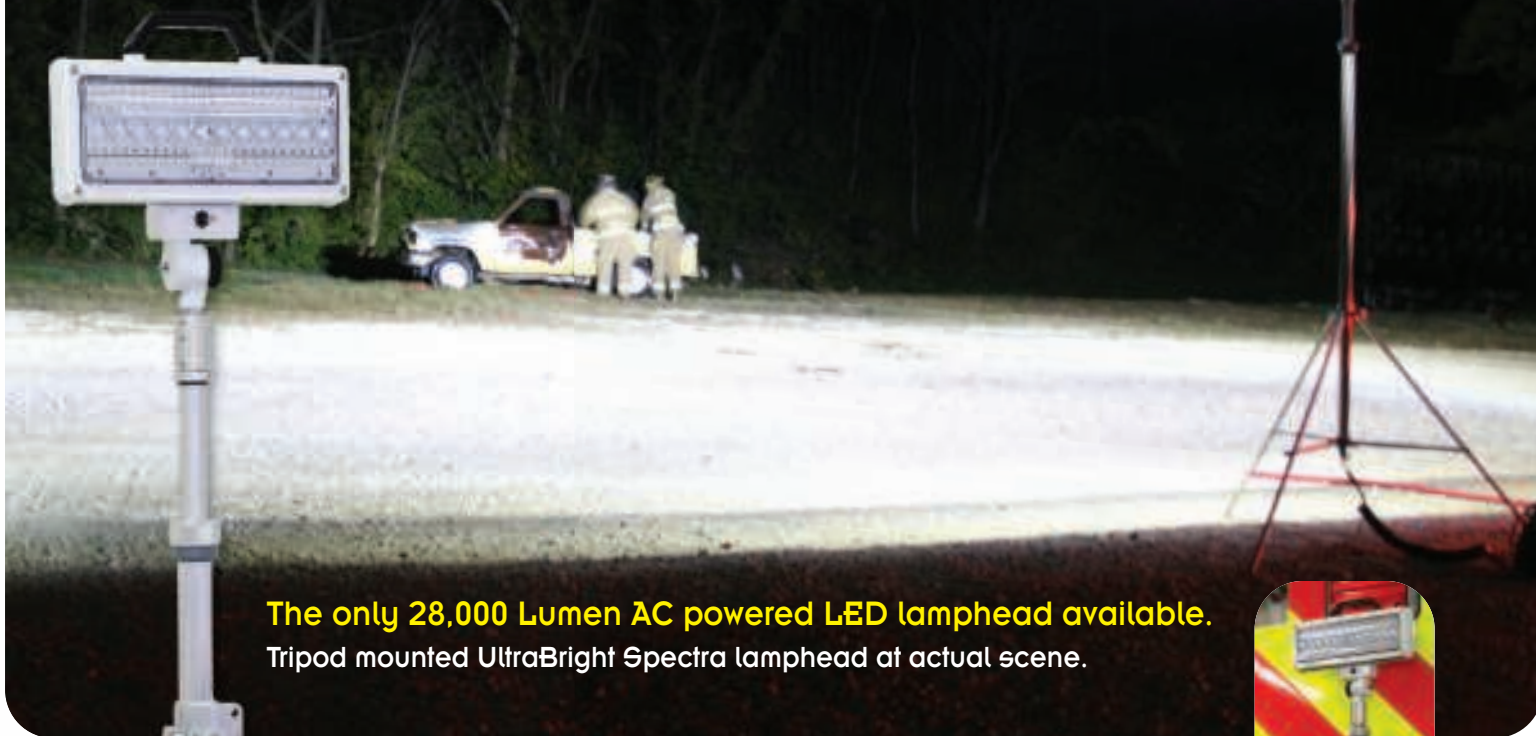


Perimeter Light Surface Mount Casting (Optional) (KR-4000-SMC)

Part #	Watts	Volts	Amps	Lamp	Lamp Lumen Rating	Lamp Life
KR-4035X - _ - _	35	12	3.5	Xenon HID	3200	3000 hrs
KR-4100H - _ - _	100	120	.9	Halogen	1900	1000 hrs
KR-4150H - _ - _	150	120	1.3	Halogen	2400	2000 hrs
KR-4250H - _ - _	250	120	2.1	Halogen	5000	2000 hrs

- Horizontal and Downward angle flood beam patterns available (suffix -H- for Horizontal 12-15° beam or -D- for Downward 20-65° beam)
- Reflector is available on left or right side (suffix -R- for Right Side Reflector or -L- for Left Side Reflector)
- Chrome finish is standard. Also available in white paint finish (add suffix -W to part number).

UltraBright Spectra Tripod



The only 28,000 Lumen AC powered LED lamphead available.
 Tripod mounted UltraBright Spectra lamphead at actual scene.

FRC Tripods are Available with the Following Lampheads:

SPECTRA: J20, K20

SPECTRA MAX: J28, K28

SPECTRA MAX-S: B28, C28

SPECTRA MS: T14, U14

OPTIMUM: S30, S50, S75, S72, M10, M12, M15

FOCUS: S30, S50, S75, S72, M10, M12, M15

*SPECTRA tripod shown mounted with
 FRC QUICK RELEASE brackets on emergency vehicle.*



Optional Quick Release Tripod Brackets



-603 for
 SPECTRA / OPTIMUM



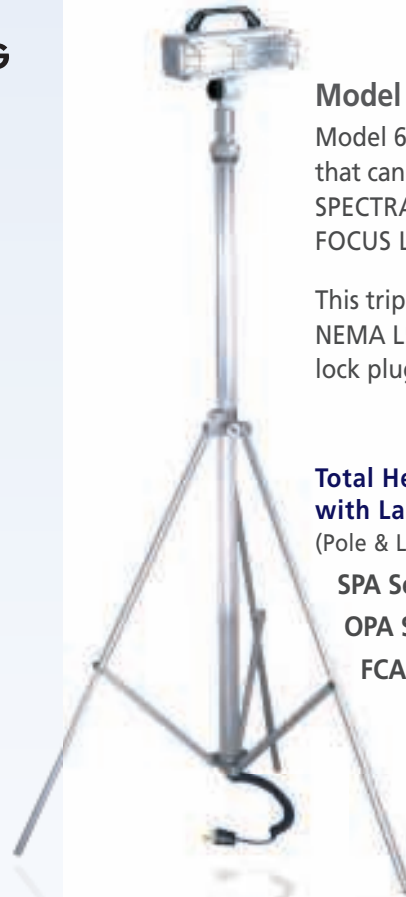
-6F3 for FOCUS

- The 603 bracket sets consist of a small triangular bracket for the feet and a QUICK RELEASE spring loaded dead-bolt lock to hold the tripod at its midpoint
- The brackets can be used on the exterior of a vehicle or in a compartment
- The 6F3 has spacers needed for FOCUS lampheads

Twist Lock Telescopic Tripods

The Industry's Finest Tripods with the Best Features :

- **Twist Lock** – FRC's unique locking ring operates from either direction. It is simply the best way to deploy a light with the gloved hand!
- **Air Cushioned pole release** – This innovation allows the pole to lower slowly, when released, on a cushion of air. This helps to prevent pinched fingers and damage to the bulb.
- **Ease of set-up** – FRC tripods are designed to deploy all three legs at the same time, allowing the unit to be set up quickly and easily at an incident.
- **Lightweight anodized aluminum poles** – The standard tripod weighs just 16 pounds!
- **Extends up to 12 feet!** – Fire Research tripods are designed to permit "overextension" of its legs so the tripod's lamphead can reach this incredible height.
- **Cammed knobs** – The pole tightening knob will not unscrew or come off due to vibration.
- **Anti-chatter legs** – Rubber covers at the bottom of the legs ensure a quiet ride.
- **Small footprint** – When closed the unit sets into an incredibly small lower bracket allowing ease of mounting just about anywhere!
- **Truck mountable** – All tripods are truck mountable, allowing them to be used as telescoping lights on the vehicle and off!
- **Wire Guard** – As shown is standard.



Model 600

Model 600 is a standard tripod that can be used with either SPECTRA, OPTIMUM, or FOCUS Lampheads.

This tripod is supplied with a NEMA L5-15 three prong twist lock plug.

Total Height of Model 600 with Lamphead

(Pole & Legs Retracted)

SPA Series = 72" high

OPA Series = 69" high

FCA Series = 69" high



Model 656

Smaller tripod, overall length (with lamphead) is 14" smaller than Model 600.

Model 642

Smallest tripod, overall length (with lamphead) is 27" smaller than Model 600.



- Similar to the 603, the dual bracket consists of a small triangular bracket for the feet and a DUAL QUICK RELEASE spring loaded dead-bolt lock to hold the tripod at its midpoint. The lock can be released from either side.

-603D for SPECTRA / OPTIMUM

-6F3D for FOCUS

Kwik-Raze Telescoping Tripod

- The extruded, 1/3 round legs neatly fold closed for a professional appearance.
- Standard with machined aluminum™ series watertight locking collar with easy-to-grip knurled aluminum.
- Available for all light fixtures.
- Wire guard comes standard on Optimum, Focus, and Magnafire lampheads.
- Short Tripod fits in the trunk to provide a quick solution to unpredictable night time situations. (-SL models)
- Large Grab Handle makes pole easy to carry.

Large Grab Handle is standard on KR-800 tripods for easy carrying.



Kwik-Release
Cam Latch

Model **KR-SB-800**

Telescoping Tripod
overall closed
height is 59 1/2"

Optional
**Truck
Brackets**
-TM and -TM7



Lower Receiver
Cup Holds Legs
Closed



Model
KR-SB-800-SL
Telescoping Compact Tripod
overall closed height is 42"



Portable Base Model **KR-700**

- Grab-and-run versatility
- Cast aluminum portable base
- Available with any AC light fixtures
- LED lampheads provide more light per watt than traditional quartz halogen fixtures



-HD Hold Down Assembly



Lamphead with portable base easily stores in most vehicle compartments or storage areas



Wire guard comes standard for Optimum, Focus and Magnafire lampheads

Shown with Magnafire 5000 lamphead



Portable Demountable - **DM Option**

- Combines the benefits of a telescoping pole and a 700 Series portable light
- Hold-down assembly fastens light to permanently-mounted baseplate (-HD)
- Mounted on any of the telescoping poles including the SB-800 Series shown on the previous page
- On/off switch standard
- Add suffix -DM to complete pole mount
- Also available without pole

Fixed Top Mount

Model 570

More than a simple top mounted base, the 570 allows for a full 450° of rotation. This means that light coverage can be a full circle, plus another quarter turn which ensures no blind spot. The 570 base has a built-in stop to prevent the internal wiring from binding.

A built-in friction mechanism ensures the light will not rotate when the vehicle is in motion.



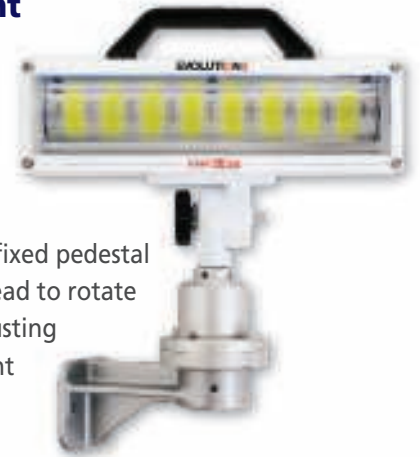
Fixed Side Mount

Model 580

The 580 side mounted, fixed pedestal light allows the lamphead to rotate 450° and has a self adjusting friction brake to prevent arbitrary rotation.

The pedestal has a round mounting base attached to a side mount bracket.

*SPECTRA & OPTIMUM lampheads use a 2.75" bracket.
EVOLUTION II & FOCUS lampheads use a 3.5" bracket.
OPTIMUM HID lampheads use a 5" bracket.*



EVOLUTION II with fixed top mount (above) and SPECTRA (right) shown



FOCUS with fixed side mount (above) and SPECTRA (right) shown

Under Aerial

Model 300

The 300 adjustable aerial mounting brackets allow the EVOLUTION II and FOCUS lamphead to be mounted under an aerial bucket or platform. Aim the light forward or directly downward. Commonly set at 30° downward as shown.



Required Clearance

- Aimed Directly Forward - 4"
- Aimed At 30° Downward - 6.5"
- Aimed At 45° Downward - 6.75"
- Aimed Straight Down - 7.5"

Fixed Top Mount



Model **KR-SB-600**

The KR-SB-600 fixed top mount includes a two-piece locking collar and is designed to allow for easy 360 degree rotation.

- Also available with clamping lever (*KR-SB-600-L*)

Low-Profile Permanent Mount



Model **KR-1300**

The KR-1300 low-profile permanent mount includes a 3 1/8" square base plate that allows for 358 degree horizontal rotation and 180 degree vertical adjustment of the lamphead.

- Magnafire lampheads only



Fixed Side Mount

Model **KR-SB-600-W4**

The KR-SB-600-W4 fixed side mount includes a two-piece locking collar and a 4" offset mounting bracket with four hole mount plate.

- 180° horizontal rotation and 90° vertical tilt *with Magnafire 5000 lamphead*
- 100° horizontal rotation and 90° vertical tilt *with Magnafire 3000 lamphead*

Platform / Aerial Mount

Model **KR-1400**

The KR-1400 is a permanently mounted bracket with a 90 degree range of light angle adjustment and is designed for vertical and horizontal installation.

- Magnafire lampheads only
- On/Off switch not available





Get More Light Using Less Power with SPECTRA & EVOLUTION II LED Brow Mounts

Highly Efficient LEDs Provide Five-Times More Light than Halogen Bulbs



Model **FCA 800**

Turn Night into Day

Arrive at a Nighttime Scene & Power-up Your New SPECTRA or EVOLUTION II Brow Mounted LED Lampheads for the Brightest Light.

Perfect for new and existing vehicles.



Model **SPA 800**
CONTOUR BROW MOUNT



Model **SPA 850**
FLAT MOUNT

Brow Lights are Available with the Following Lampheads:

SPECTRA: Q15, Q20, J20, K20

SPECTRA MAX: Q28, J28, K28

SPECTRA MAX-S: A28, B28, C28

SPECTRA MS: R14, T14, U14

EVOLUTION II: V11, V20

OPTIMUM: E70, E15, H70, H15, S30, S50, S75, S72, M10, M12, M15

FOCUS: H70, H15, D15, D30, H30, S30, S50, S75, S72, M10, M12, M15

Contour, Universal & Flat Mounting

Perfect for Mounting on Roof of Cab



Model **OPA 800**

Brow Lighting Features

- UltraBright Illumination
- Light Up the Scene Quickly Upon Arrival
- Very Low Profile
- Available for SPECTRA SERIES, EVOLUTION II, OPTIMUM, FOCUS & MAGNAFIRE

Custom Contoured Mount

DESIGNED TO MOUNT ON YOUR CAB

Contour Brow mounts are cast to match the roof radius of a specific vehicle - contact your OEM dealer for availability for your vehicle.



Model **KR-1500**
(Used with Magnafire 3000 only)



Model **OPA 830**

Universal Mount

DESIGNED TO MOUNT ON ANY CAB

Universal Mounting Bracket Easily Installs on All Apparatus

Flat Mount

DESIGNED TO MOUNT ON ANY FLAT SURFACE



Model **FCA 850**



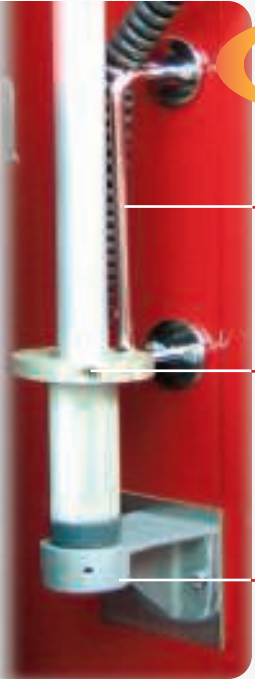
Model **OPA 850**

SPECTRA

EVOLUTION II

OPTIMUM

FOCUS®

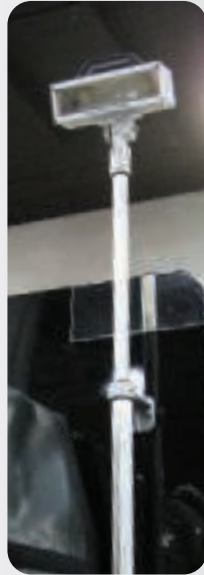


Guide Rail

Guide Collar

Steady Rest Bracket

Available with 3.5" or 5" brackets.



-NS

Patented No-Scratch Option

Ordered with the 530 pole by adding the suffix -NS to the part number. **-NS Option includes:**

- (2) Rubber Bumpers (FOCUS & EVOLUTION II only)
- (1) Guide Collar & Guide Rail
- (1) Steady Rest Bracket

FC-NS31K

The Rubber Bumpers can be ordered separately and installed on all standard FOCUS lampheads.

FC-NS31K Kit includes:

- (2) Rubber Bumpers
- (2) 1/8" Rivets with Backing Plates

FC-NSK

The No-Scratch option can be retrofitted on existing 530 poles.

FC-NSK Kit includes:

- (1) FC-NS31K Kit
- (1) Guide Collar & Guide Rail Assembly

Note: It is recommended that the Steady-Rest bracket be installed with the No-Scratch retrofit kit.

Order FC-NSK-SR

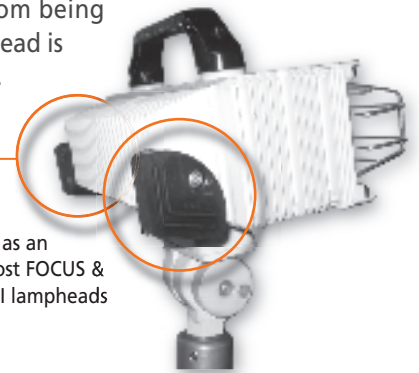
No Scratch Guide & Rubber Bumpers Prevents Scratching & Denting

The No-Scratch option combines a guide collar and guide rail assembly, a steady-rest bracket, and two rubber bumpers on the lamphead (FOCUS & EVOLUTION II only) to prevent scratching and denting of apparatus body surfaces. The complete No-Scratch option is available on 530 side mount, bottom raise, telescopic pole.

When the pole is raised the guide collar disengages from the guide rail and the lamphead is free to rotate 360°. As the pole is lowered the guide collar engages the guide rail. The guide collar and rail prevents the pole from being lowered if the lamphead is not correctly aligned.

Rubber Bumpers

are available as an option on most FOCUS & EVOLUTION II lampheads



Rubber Bumpers

Raised Pole Indicator & Switch

In order to alert the vehicle operator that an extendable pole is raised, FRC offers a switch and indicator option for all permanently mounted telescopic poles. The parts associated with this option will differ dependent upon the type of pole in question.

Note: To retrofit this option the type of pole being used needs to be specified when ordering.

If retrofitting this option on a 530 push-up pole the steady rest lower bracket is required.





Wire Guard

When retrofitting a wire guard on an OPTIMUM or FOCUS lamphead not originally fitted with one order the OP150-S/FC150-S or OP150-M/FC150-M kit.

Wire Guards are not available on Model 200, 230, and 250 recessed mounts.



WIRE
EXIT
TOP OF
POLE

**Wire Exits from Top of Pole
Non-concealed Wire**

For most permanently mounted lampheads the power cord exits through the bottom of a pole assembly. Specifying this option will bring the power cord out of the top of the pole or lamphead.



AC Plugs

- P1 Nema 5-15 Straight (household type) plug
- P2 Nema L5-20 3-Prong twist lock plug
- P3 Nema L5-15 3-Prong twist lock plug



ON

On/Off Lamphead Switch

On SPECTRA, EVOLUTION II, OPTIMUM, FOCUS and MAGNAFIRE lampheads a switchbox is provided underneath the lamphead.



ON/OFF LAMPHEAD SWITCH

D

Dual Lampheads

Two (2) lampheads. Bar accommodates all lampheads (unless they are wider than 12") and many poles and mounts.



CL

Custom Length Pole

FRC telescopic poles can be shipped pre-cut to a custom length. Total length will include pole and lamphead.

(Some restrictions apply)



SOBRITE *the new concept light*



Compact, Ultrabright LED Light

Rugged Lightweight & Powerful

- 7,000 lumens of intense LED light
- Built tough for long life in the harshest environments
- Versatile design offers multiple mounting options
- Ideal LED upgrade for your existing vehicles
- 12 / 24 VDC - 5/2.5 Amps



Shown with standard yoke mount (model SRA100)



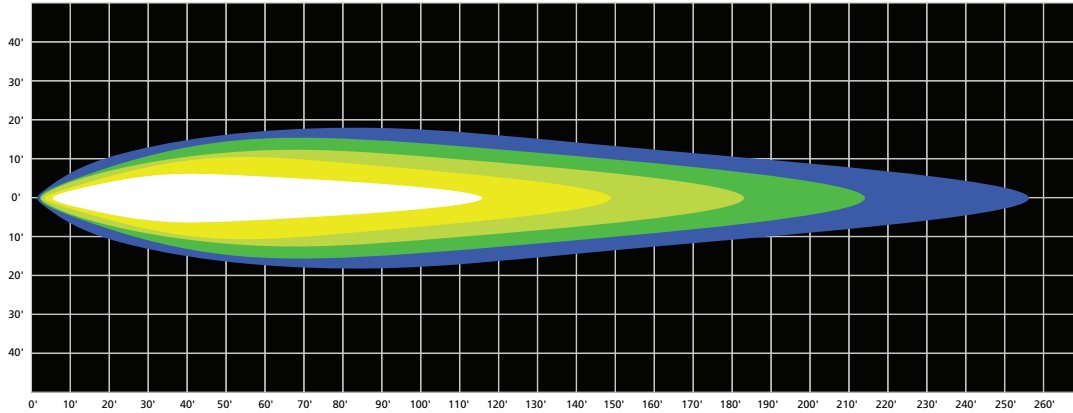
Shown with fixed mount (model SRA110) and optional black housing

Mounts almost anywhere



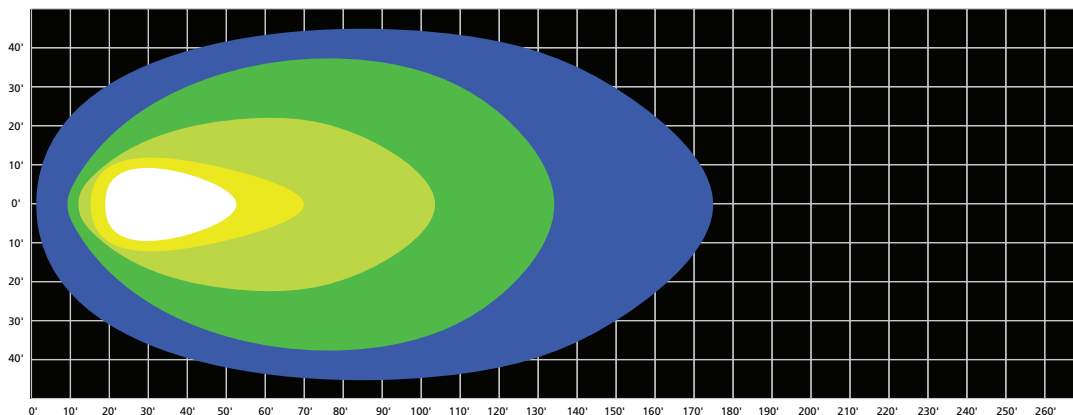
SoBrite LED easily retrofits to existing Collins Dynamics® FX and Unity AG-L mounting bases.

Three Models, Three Light Patterns



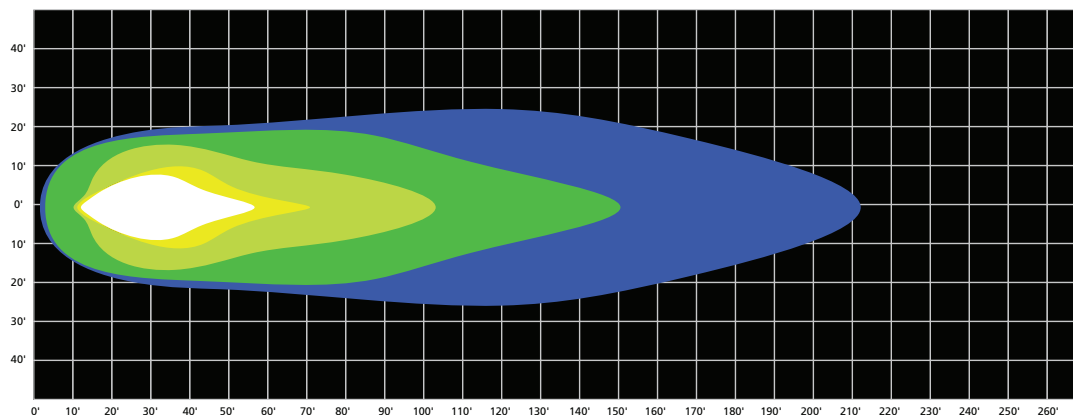
Model SRA100-07A

Spot Pattern:
A focused and concentrated long range light beam for illuminating objects in the distance.



Model SRA100-07B

Flood Pattern:
Widest pattern of light that is perfect for evenly illuminating the work area.



Model SRA100-07C

Trapezoid Pattern:
Wider than a spot and longer than a flood this light pattern is ideal as a general-purpose work light. Ideal for mounting on front of vehicle for increased visibility while driving.

COLLINS

DYNAMICS

Halogen FX Series

The Collins-Dynamics brand of spotlights have been a recognized leader for over 25 years.

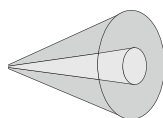


The **Collins Dynamics spotlight** incorporates a unique spun aluminum reflector that is polished and vacuum metalized. This process creates a high-quality mirror-like finish that emits a consistent beam focus that produces 30% more light output than sealed beam lamps.

Single and dual-stage reflectors provide high-intensity halogen spot, flood and enhanced flood beam patterns. The body is constructed of black anodized aluminum with a chrome plated reflector housing, and an aluminum switch box; switches are standard. All models are standard 12 volt and, if specified, offered with 24 volt lamps.

FX-6 Enhanced flood light

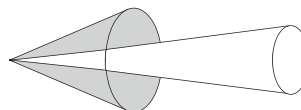
Enhanced flood pattern decklight with 7" single stage 40° reflector. Uses 100 watt H-1 lamp. Draws 7.8 amps.



FX-6 Beam pattern
300,000 cp spot
125,000 cp flood

FX-9 Selectable spot/flood light

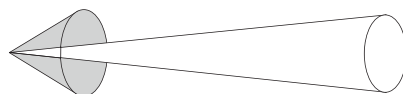
Select spot or flood pattern with 7" dual stage reflector. Uses two 100 watt H-2 lamps. Draws 7.8 amps on spot or flood.



FX-9 Beam pattern
500,000 cp spot
50,000 cp flood

FX-12 Selectable spot/flood light

Select spot or flood pattern with 7" dual stage reflector. Uses 100 watt H-2 spot and 55 watt H-2 flood lamps. Draws 7.8 amps on spot, 4.2 on flood.



FX-12 Beam pattern
750,000 cp spot
5,000 cp flood

Part No.	Watts	Volts	Amps	Lamp	Lamp Lumen Rating	Lamp Life
CD-FX-6	100	12	7.8	H-1	2,800	150 hrs
CD-FX-9	100/100	12	7.8	H-2	3,000	100 hrs
CD-FX-12	100/55	12	7.8	H-2	3,000	100 hrs
CD-FX-HID-1	35	12	3.5	Xenon HID	3,300	3,000 hrs

Handheld Spotlights

FRC offers a full-line of powerful portable and handheld spot and flood scene lights. All are constructed of rugged weatherproof materials to provide reliable high-intensity light output and performance.

Part No.	Description
CD-CL-HID-1	Spotlight, FX-HID, 35 Watts, 12 Volts, HID, 9' Power Cord
CD-CL-12	Spotlight, Handheld, CL-12, available with Momentary Switch (CD-CL-12-M)
CD-MAGNUM	Spotlight head, CD-12 Magnum



DuroLumen

High Performance LED Interior Lighting

The power you need, the savings you want.

- Reverse polarity and over/under voltage protected
- Easy retrofit – fits Grote and TruckLite hole patterns: 3.5" x 16" x 1"
- Recessed housing – Nearly flush mount pan fits tight along walls and ceilings



DuroLumen LED Interior Lighting

Part No.	Description	Voltage	Amps	Lumens
R03696	Surface mount. White/White offers high or low beam intensity switching (user supplied switch)	9–16 VDC	2.5 high 1.25 low	2,800 high 1,400 low
R03694	Surface mount. White only	9–16 VDC	1.25 low	1,400
R03695	Recessed mount. Red/White offers high or low beam intensity switching (user supplied switch)	9–16 VDC	1.25 low	1,400 white 500 red
R03850	Recessed mount. White/White offers high or low beam intensity switching (user supplied switch)	9–16 VDC	2.5 high 1.25 low	2,800 high 1,400 low
R03848	Surface mount. White only	9–16 VDC	1.25 low	1,400
R03849	Recessed mount. Red/White offers high or low beam intensity switching (user supplied switch)	9–16 VDC	1.25 low	1,400 white 500 red

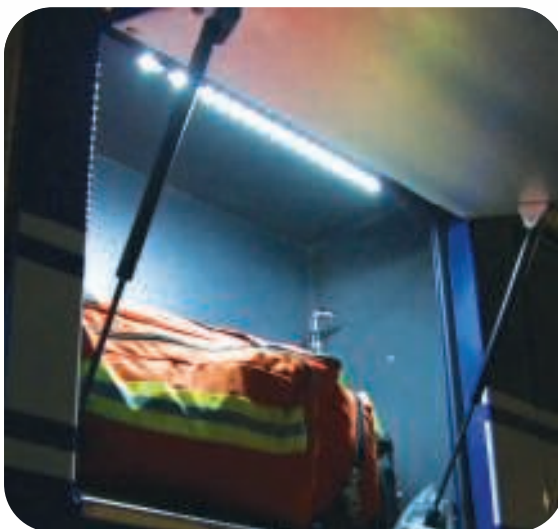
SUNSTRIP



UltraBright White LED Light for Compartments, Panels, Under Body Applications, Walkways & Stairwells



- UltraBright Strip Light - More than 300 Lumens of LED Light per 18" Length
- LEDs Housed in a Strong 5/8" Diameter Lexan Tube
- Designed Tough to Withstand Any Vehicle Vibration
- Waterproof & Submersible
- Great for All Applications
- Easy to install
- Long Operating Hours – Rated at 50,000 Hours

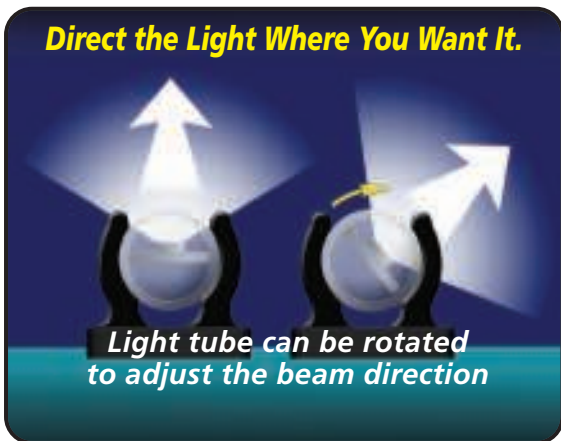


Available in 9" length increments from 9" to 63"

Ordering Info

Part No.	Tube Length*	Lumens	Current @ 12V
LED200 - A09	9"	150	0.17 amps
LED200 - A18	18"	300	0.35 amps
LED200 - A27	27"	450	0.52 amps
LED200 - A36	36"	600	0.70 amps
LED200 - A45	45"	750	0.87 amps
LED200 - A54	54"	900	1.05 amps
LED200 - A63	63"	1050	1.22 amps

*Add 2" for end caps & wire clearance
 Mounting clips supplied • 24V also available

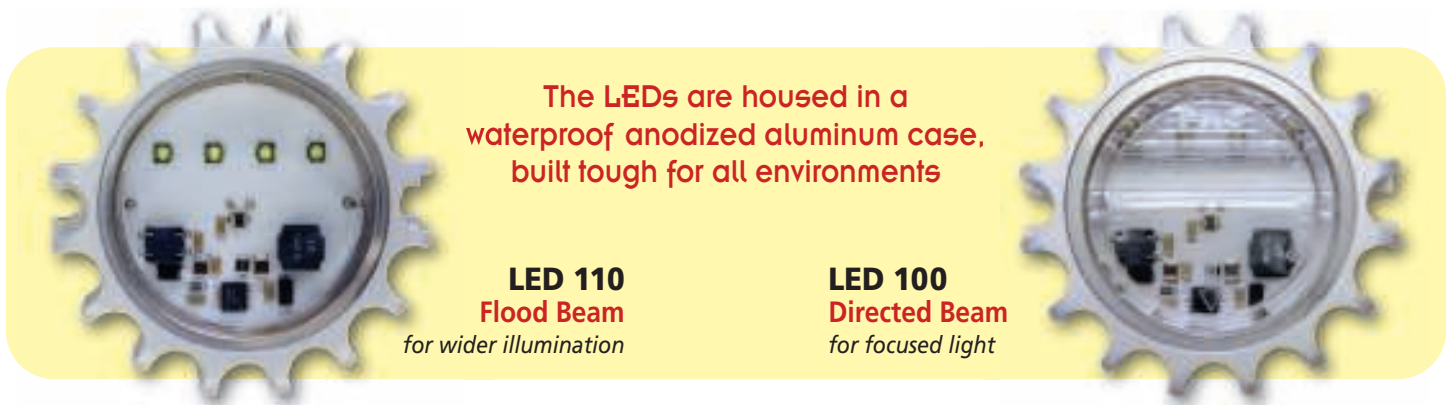


FIREFLY



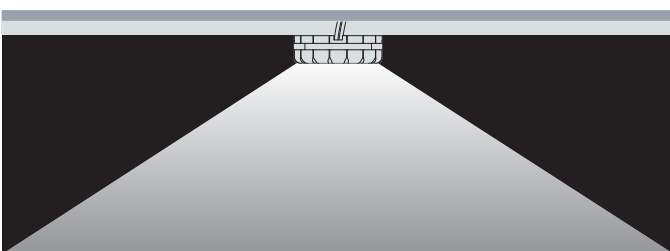
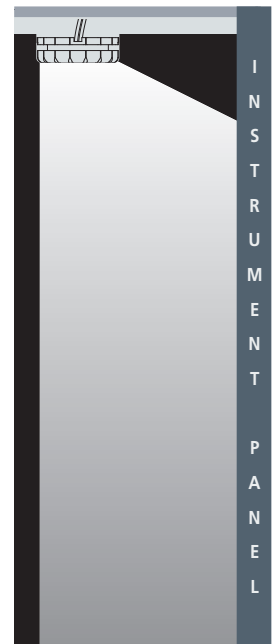
Most Compact UltraBright White LED Light for Compartments, Panels, & Under Body Applications

- Small and Compact - Four (4) White, Long Life LEDs
- UltraBright 650 Lumens Light Output
- Mounts in Any Orientation & On Any Flat Surface
- 12 VDC-0.8 Amps / 24 VDC-0.4 Amps
- Low Power Consumption Saves Energy
- Instant on at Full Intensity
- Can be Used in Compartments, on Panels, and for Ground or Surface Lighting

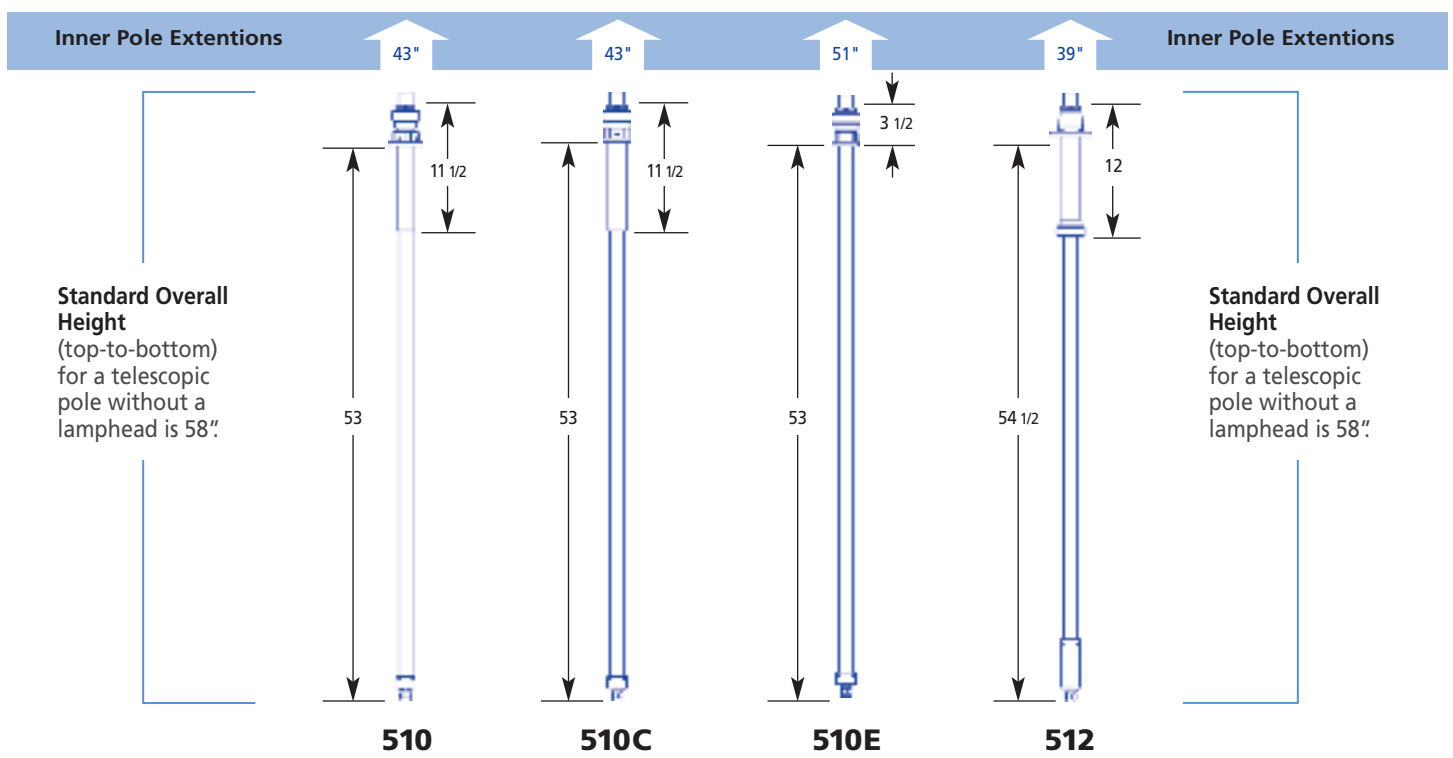


LED110 - Q01 Work Light perfect for under vehicle

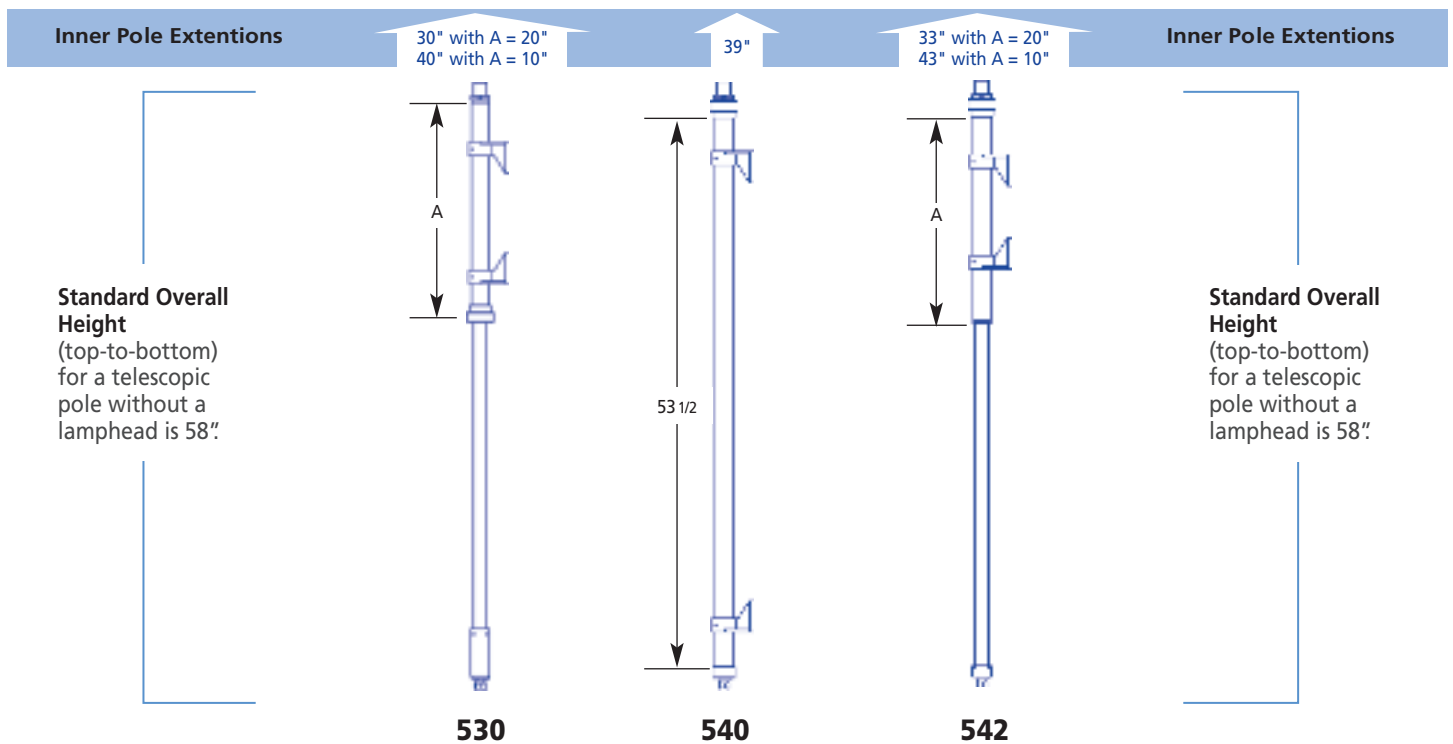
LED100 - Q01 Compartment Light with glare reducing lens



TWIST-LOCK Top Mount Poles



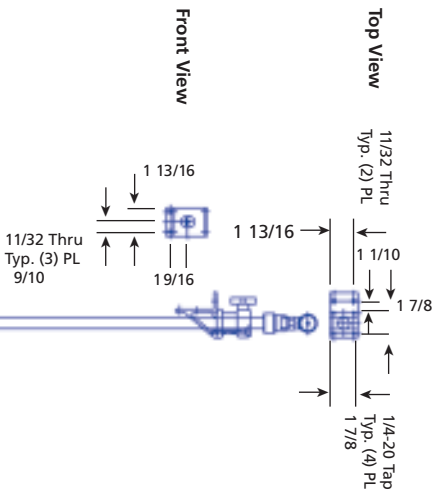
TWIST-LOCK Side Mount Poles



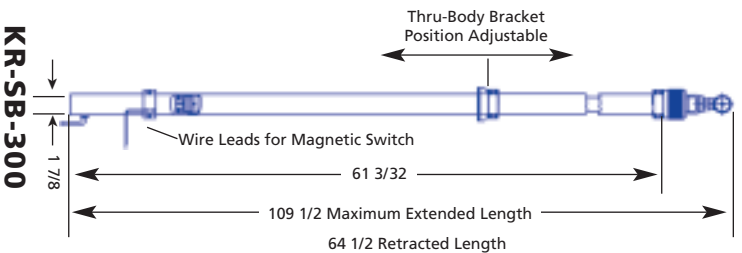
KWIK-RAZE Top Mount Poles

Inner Pole Extensions

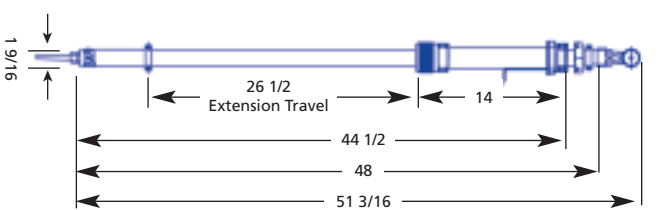
40"



45"



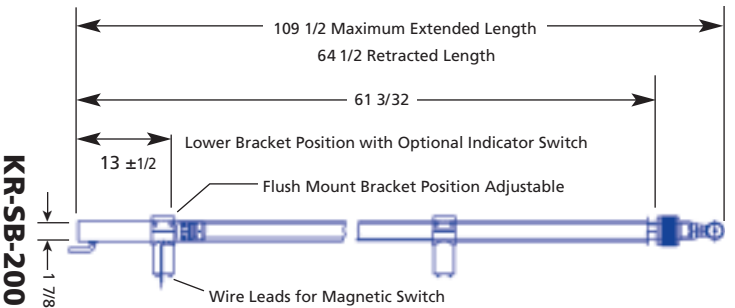
26 1/2"



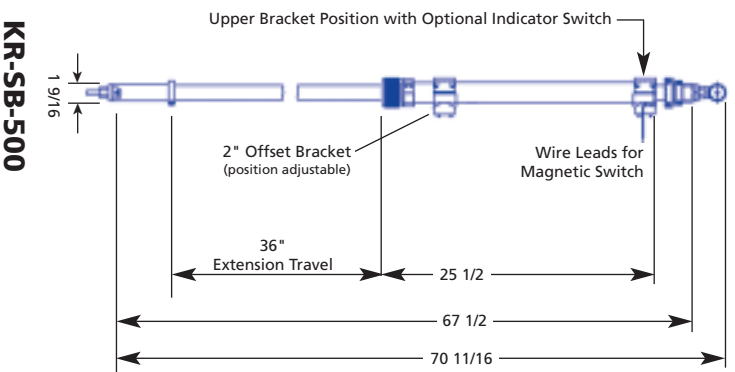
KWIK-RAZE Side Mount Poles

Inner Pole Extensions

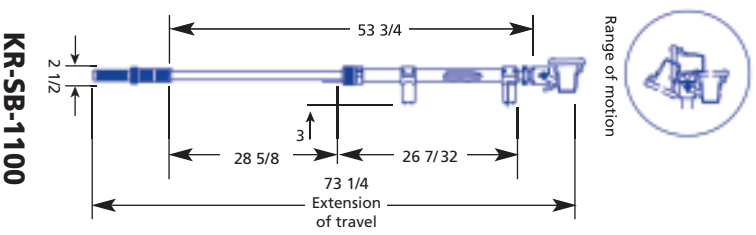
45"



36"



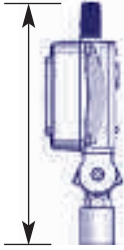
28 5/8"



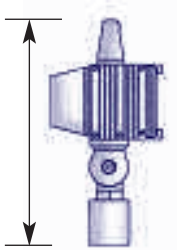
Lamphead Height Dimensions

	All SPECTRA	All FOCUS & EVOLUTION II	All OPTIMUM
Lamphead	12 7/16	10 3/8	10 3/8
With ON/OFF Switch	13 7/16	11 3/8	11 3/8
With Wire Guard	N/A	10 3/8	10 3/8
With Top Wire	13 7/16	11 3/8	11 3/8

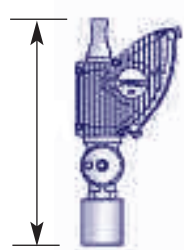
SPECTRA SERIES



FOCUS & EVOLUTION II



OPTIMUM

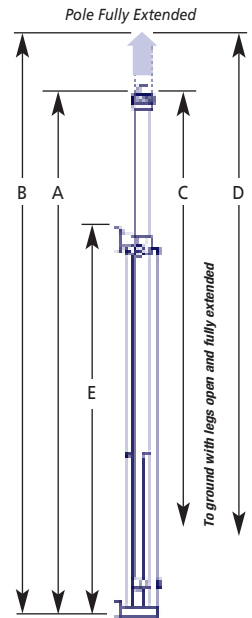


NOTE: Lamphead to pole adapter (LT100) is included in lamphead dimensions. When adding the lamphead height to a standard pole height (58") subtract 1 1/4" to obtain overall dimension.

TWIST-LOCK Tripod Pole Dimensions

	600	656	642
A	59	45 1/4	31 3/4
B	99	73 1/2	48 3/8
C	75 1/8	61 1/2	44 3/4
D	115 1/8	89 3/4	61 3/8
E	43 1/2	43 1/2	30 1/2

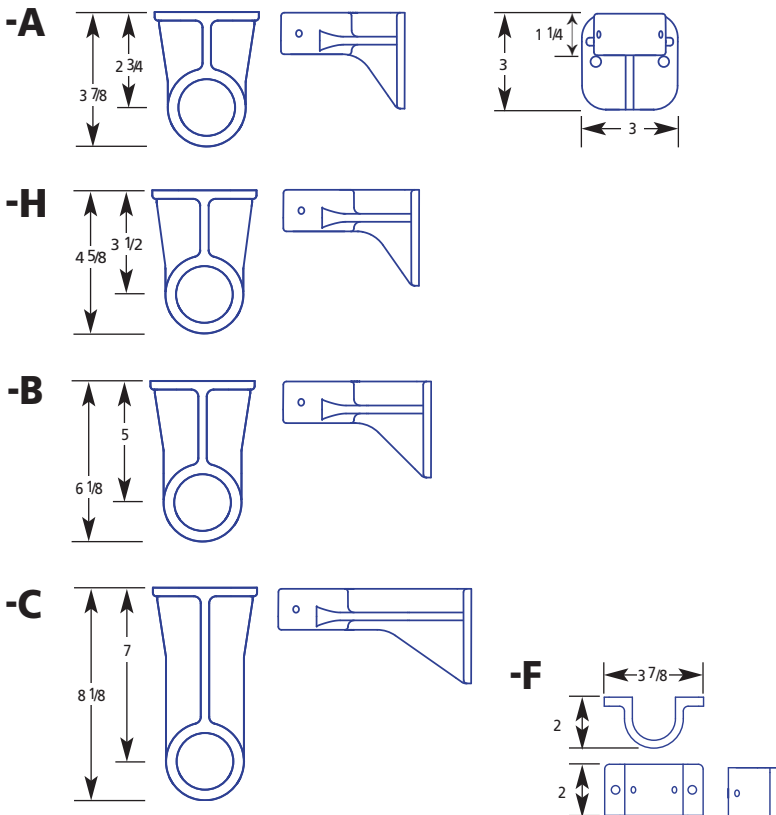
NOTE: The tripod comes with the power cord exiting from the bottom of the pole. For the power cord to exit from the top of the pole add the -TW option. When the -TW option is installed add 1" to the lamphead dimension and on a standard pole add 8" to dimensions B and D.



Tripod shown from side view with quick release truck mount bracket set

Side Mount Bracket Dimensions

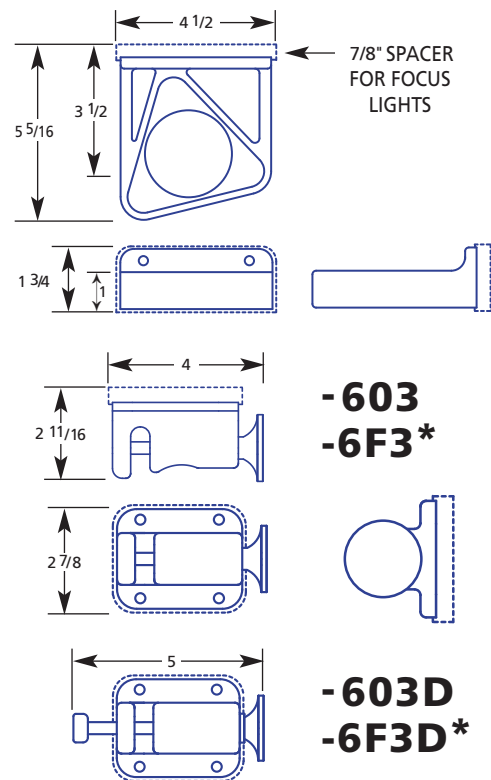
All Dimensions In Inches



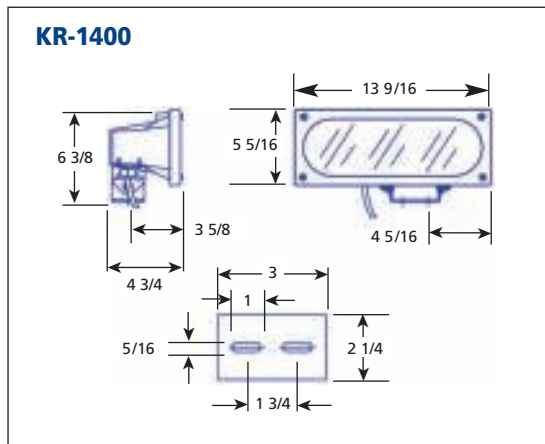
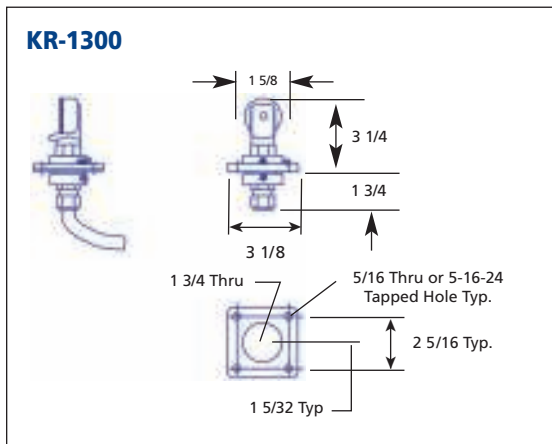
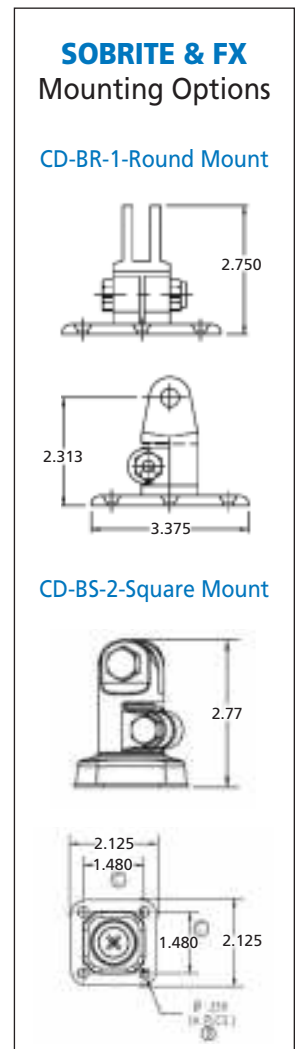
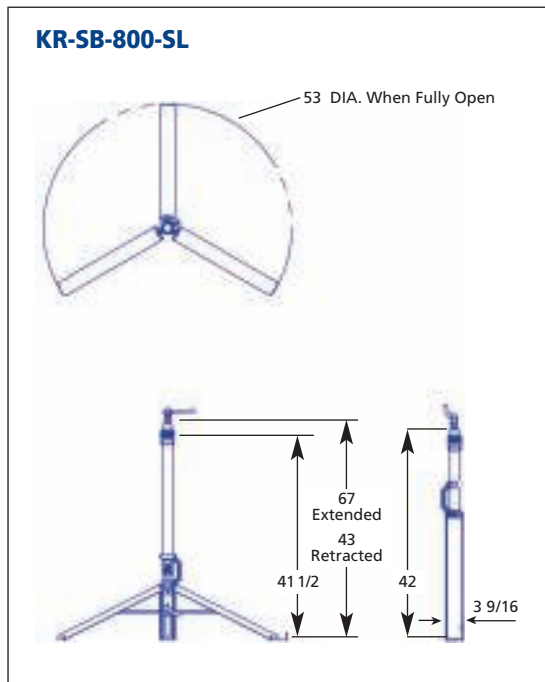
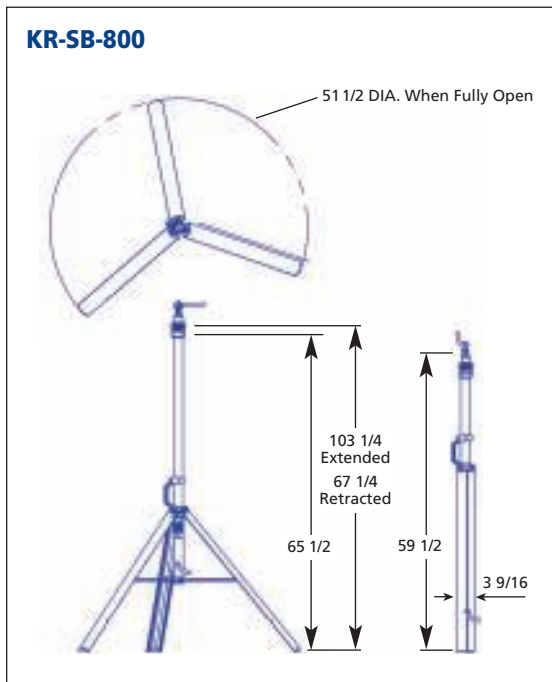
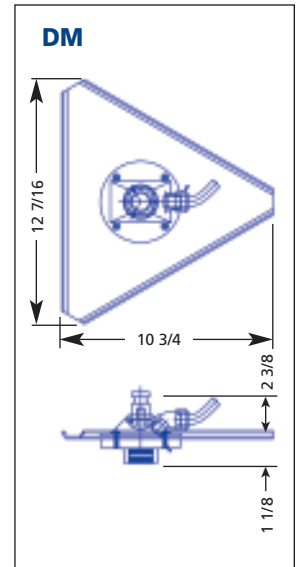
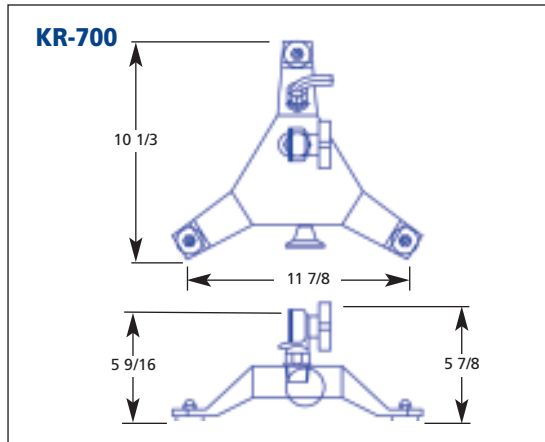
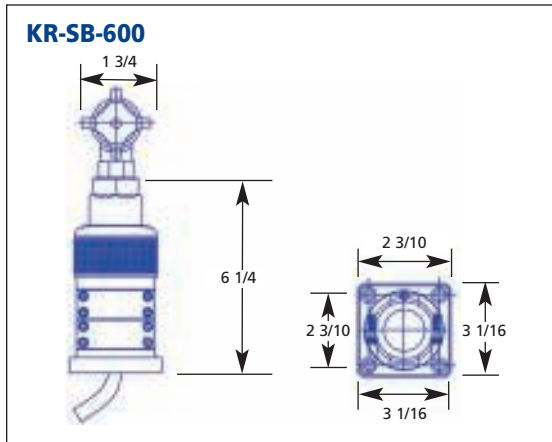
Tripod Bracket Dimensions

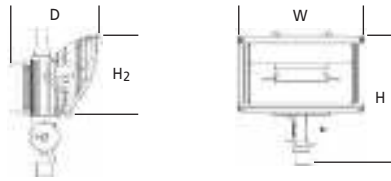
All Dimensions In Inches

* FOCUS Lampheads Require the included 7/8" spacer.



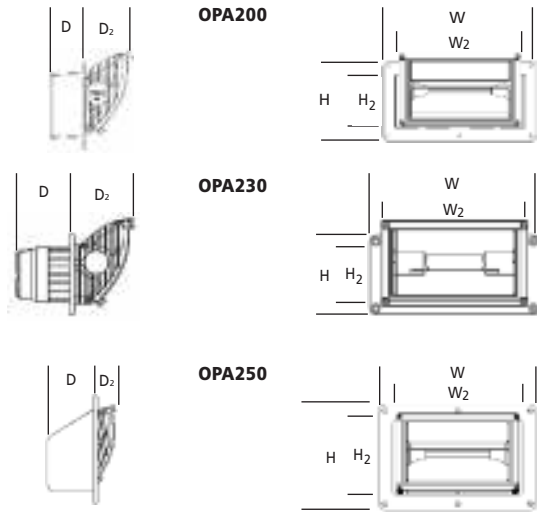
KWIK-RAZE Dimensions





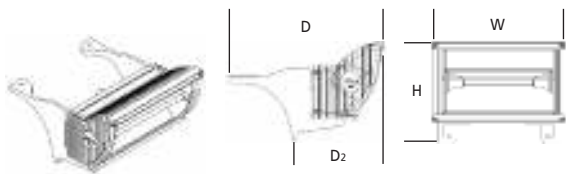
OPA100, OPA500, OPA600, OPA700

Model	W	D	H	H ₂
S30, S50, S75, S72	8 11/16	4 3/4	9 1/16	5 3/8
H70, H15, E70, E15	8 11/16	7 1/16	9 1/16	5 3/8
M10, M12, M15	14 1/16	4 3/4	9 1/16	5 3/8



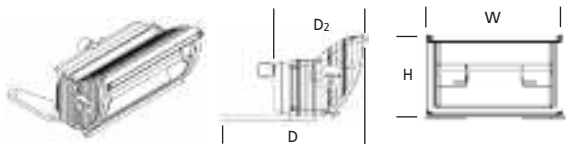
OPA200, OPA230, OPA250

Model	W	D	H	W ₂	D ₂	H ₂
OPA200						
S30, S50, S75, S72	11	2	5 5/8	9 3/4	3 1/8	4 1/4
OPA230						
M10, M12, M15	17 1/2	2	5 5/8	16 1/8	3 1/8	4 1/4
OPA250						
S30, S50, S75, S72	11 3/16	4 1/8	7 1/2	9 9/16	1 3/4	5 3/4
M10, M12, M15	16 9/16	3 1/4	7 1/2	15	1 3/4	5 3/4



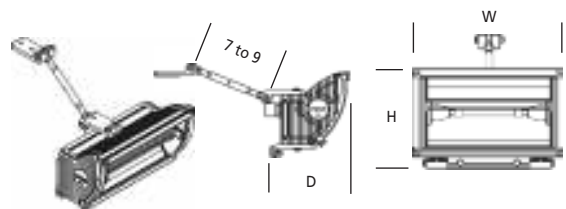
OPA800

Model	W	D	H	D ₂ Max
S30, S50, S75, S72,	8 11/16	10 7/16	6 7/16	7 1/2
H70, H15, E70, E15	8 11/16	12 1/8	6 7/16	8 3/16
M10, M12, M15	14 1/16	10 7/16	6 7/16	6 7/16



OPA850

Model	W	D	H	D ₂
S30, S50, S75, S72,	9	8 5/8	5 5/16	4 3/4
H70, H15, E70, E15	9 5/16	9 3/8	5 5/16	7 1/16
M10, M12, M15	14 3/8	8 5/8	5 5/16	4 3/4

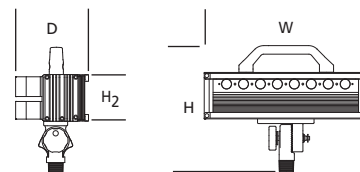


OPA830

Model	W	D	H
S30, S50, S75, S72,	8 11/16	5 7/16	5 7/8
H70, H15, E70, E15	8 11/16	6 15/16	5 7/8
M10, M12, M15	14 1/16	5 7/16	5 7/8

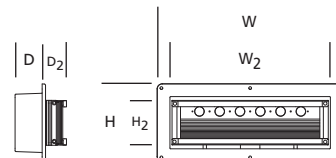
FCA100, FCA500, FCA600, FCA700

Model	W	D	H	H ₂
D15, H30, S30, S50, S75, S72	10	5	9	3 5/16
D30	11 1/2	5 3/16	9	3 5/16
M10, M12, M15	15	5	9	3 5/16
V11	7 5/8	5 3/16	9	3 5/16
V20	11 1/2	5 3/16	9	3 5/16



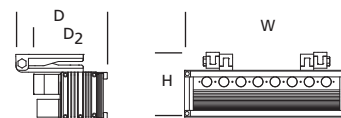
FCA200, FCA210

Model	W	D	H	W ₂	D ₂	H ₂
FCA200						
D15, H30, S30, S50	11	2	5 5/8	9 3/4	1 15/16	4 1/4
D30, M10, M12	17 1/2	2	5 5/8	15 7/8	1 15/16	4 1/4
FCA210						
S75, S72	13 7/8	2	5 7/8	12 1/2	1 15/16	4 1/2
V15	13 7/8	2	5 7/8	12 1/2	1 15/16	4 1/2



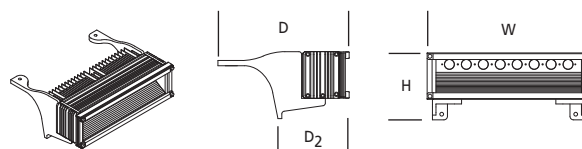
FCA300

Model	W	D	H	D ₂
D15, D30, H30, S30, S50, S75, S72	11 1/2	6 1/2	3 7/8	5
M10, M12, M15	15	6 1/2	3 7/8	5
V20	11 1/2	6 1/2	3 7/8	5



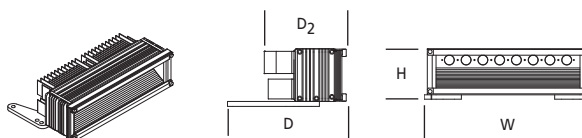
FCA800

Model	W	D	H	D ₂ Max
D15, D30, H30, S30, S50, S75, S72	11 1/2	9 5/16	4 3/4	5 5/16
H70, H15	10	12 1/8	4 7/8	8 3/16
M10, M12, M15	15	9 5/16	4 3/4	5 5/16
V11	7 5/8	9 5/16	4 3/4	5 5/16
V20	11 1/2	9 5/16	4 3/4	5 5/16



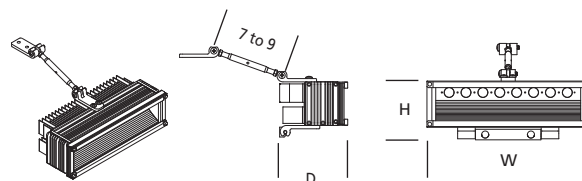
FCA850

Model	W	D	H	D ₂
D15, H30, S30, S50, S75, S72	12	7 1/2	3 5/8	5
H70, H15	10	9 3/8	3 3/4	7 1/16
D30	12	7 1/2	3 5/8	5 3/16
M10, M12, M15	15 1/2	7 1/2	3 5/8	5 3/16
V11	8 1/8	7 1/2	3 5/8	5 3/16
V20	12	7 1/2	3 5/8	5 3/16

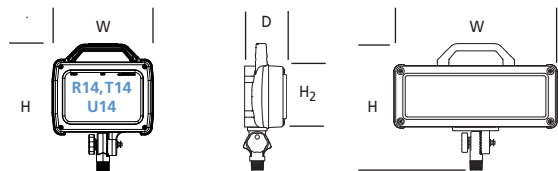


FCA830

Model	W	D	H
D15, D30, H30, S50, S72	11 1/2	5 3/16	4 5/8
H70, H15	10	7	4 3/4
M10, M12, M15	15	5 3/16	4 5/8
V20	11 1/2	5 3/16	4 5/8

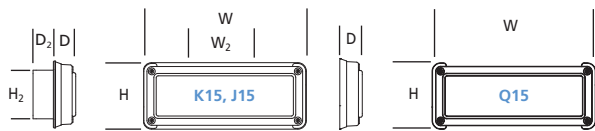


INDICATES EVOLUTION II LED MODEL



SPA100, SPA500, SPA600, SPA700

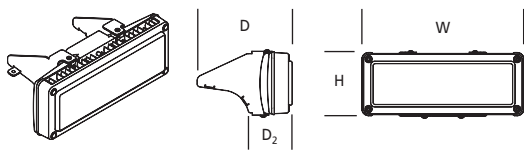
Model	W	D	H	H ₂
Q15, Q20, Q28, K20, K28, J20, J28, A28, B28, C28	14	3 3/4	11	5 3/8
R14, T14, U14	8 3/4	3 1/4	11	6 1/2



SPA260

Model	W	D	H	W ₂	D ₂	H ₂
Q15, Q20	14 1/2	1 3/4	5 7/8	-	-	-
K15, K20, J15, J20	14 1/2	1 3/4	6	6 3/8	1 13/16	4 11/16

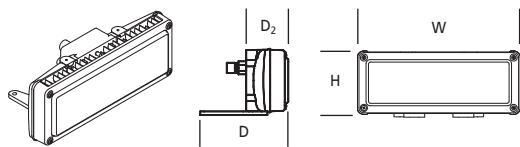
AC surface mount requires a cut-out



SPA800

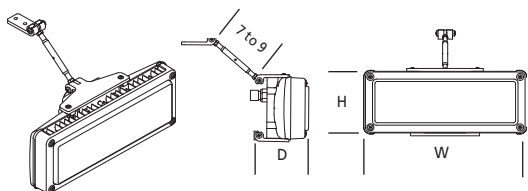
* Measurement varies dependent upon cab model

Model	W	D	H	D ₂ Max
Q15, Q20, Q28, K20, K28, J20, J28, A28, B28, C28	14	*	5 7/8	*
R14, T14, U14	8 3/4	*	6 1/2	*



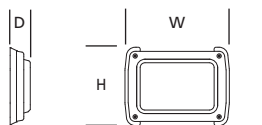
SPA850

Model	W	D	H	D ₂
Q15, Q20, Q28, K20, K28, J20, J28, A28, B28, C28	14	7 5/8	5 3/4	3 5/8
R14, T14, U14	8 3/4	7 1/2	6 3/4	3 1/4



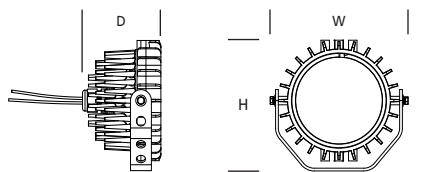
SPA830

Model	W	D	H
Q15, Q20, Q28, K20, K28, J20, J28, A28, B28, C28	14	4 3/4	6
R14, T14, U14	8 3/4	4 3/16	6 1/2



SPA900, SPA902

Model	W	D	H
Q70	9	1 3/4	6 3/4

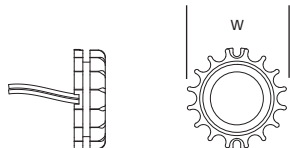


SRA100

Model	W	D	H
07A	6 1/4	3 3/4	5 15/16

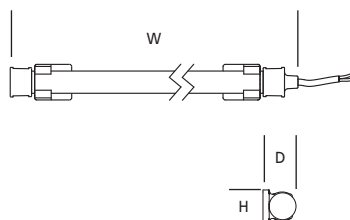
LED100, LED110

Model	W	D
Q01	2 5/8	3/4

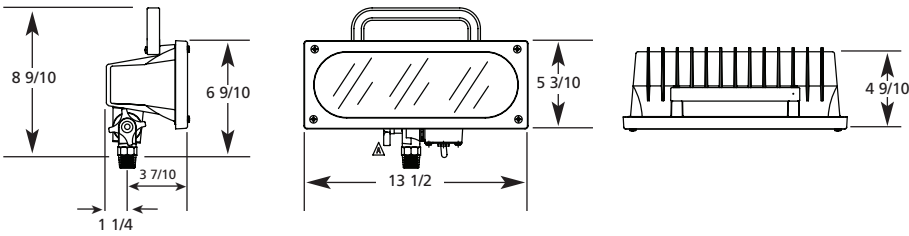


LED200, LED201

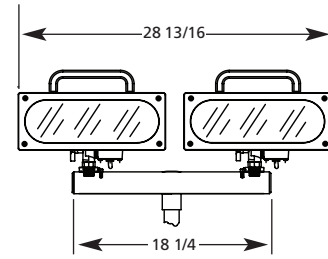
Model	W	D	H
A09	10 1/8	1 1/16	1
A18	19 1/8	1 1/16	1
A27	28 1/8	1 1/16	1
A36	37 1/8	1 1/16	1
A45	46 1/8	1 1/16	1
A54	55 1/8	1 1/16	1
A63	64 1/8	1 1/16	1



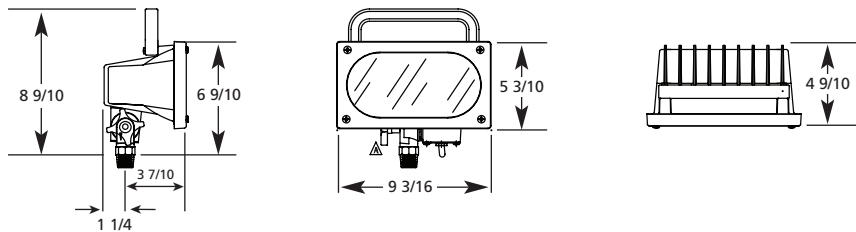
MAGNAFIRE 3000 Lighthouseheads - KR-3x



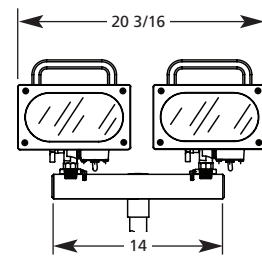
KR-3x-2



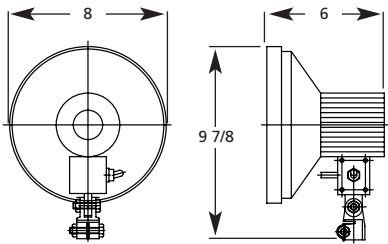
MAGNAFIRE 5000 Lighthouseheads - KR-5x



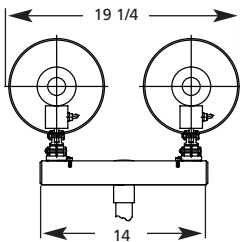
KR-5x-2



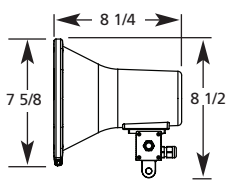
FX Lighthouseheads - CD-FX-6,-9,-12



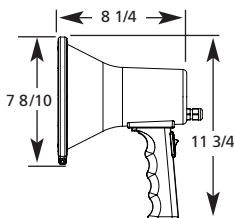
KR-06-2, KR-09-2, KR-12-2



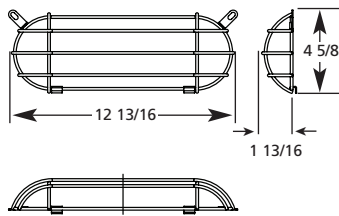
CD-FX-HID-1



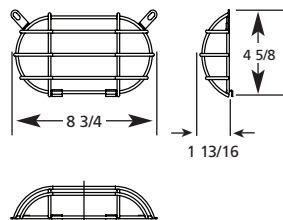
CD-CL-HID-1



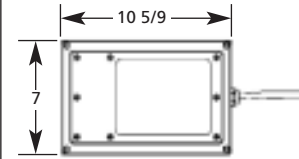
KR-GG-3000



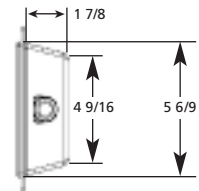
KR-GG-5000



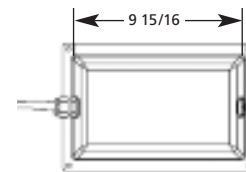
KR-4000



Front View



Side View



Rear View

Required cutout: 9 1/2 w x 5 3/4 h

KWIKRAZE

MAGNAFIRE

COLLINS DYNAMICS

3 Simple Steps

Follow the three steps shown below to get your final product number. Need help? Call us.

1

Choose a
**Pole Style
or Mount**

Poles

KR-SB-200
KR-SB-300
KR-SB-400
KR-SB-500
KR-900
KB-SB-1100

Tripods

KR-SB-800

Fixed Mounts

KR-SB-600
KR-SB-600-W
KR-700
KR-1300
KR-1400
KR-1800
KR-1900
KR-2100
KR-2200
KR-2300
KR-2800
KR-2900
KR-3100

Brow Mount

KR-1500



2

Choose a
Lamphead

Magnafire 3000

33
35
36
37
3B
3D

Magnafire 5000

53
55
56
57

Collins Dynamics FX

HID-1
06
09
12



3

Choose a
Options

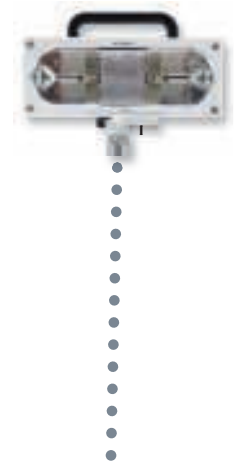
-GG wire guard
-DM portable demountable
-GR12 grab rail 12"
-GR18 grab rail 18"
-GR24 grab rail 24"
-R lower receiver support
-HD hold down assembly

Electrical

-S on/off switch
-I raised pole indicator & switch
-NCW non-concealed wire

Brackets

-W1
-W2
-W4
-W7
-W1P
-W2P
-W4P
-W7P
-TM
-TM-7



KR-SB-436-S =

KR-SB-4

+

-36

+

-S



4 Simple Steps

Follow the four steps shown below to get your final product number. Need help? Call us.

1

Indicate the
Light Prefix

SPA

for SPECTRA

FCA

for EVOLUTION II

OPA

for OPTIMUM

FCA

for FOCUS

SRA

for SoBRITE



SPA

2

Choose a
**Pole Style
or Mount**

Poles

- 510
- 510C
- 510E
- 512
- 530
- 540
- 542

Tripods

- 600
- 642
- 656

**Fixed
Mounts**

- 100
- 110
- 200
- 210
- 230
- 250
- 260
- 300
- 300U
- 570
- 580
- KR700
- 900

**Brow
Mounts**

- 800
- 830
- 850
- ...
- ...



3

Choose a
Lamphead

- Q15
- Q20
- Q28
- Q70
- K15
- K20
- K28
- J15
- J20
- J28
- A28
- B28
- C28
- R14
- T14
- U14
- 07A
- 07B
- 07C
- V11
- V15
- V20
- H15
- H70
- E15
- E70
- S30
- S50
- S72
- S75
- M10
- M12
- M15
- D15
- D30



-K20

4

Choose
Options

- F flush mount bracket
- SR steady rest bracket
- CL custom length pole
- G wire guard
- NS no-scratch guide kit
- RB rubber bumpers
- ST 10" outer tube

Electrical

- ON on/off switch
- SW raised pole indicator & switch
- TW wire exits top of pole

Brackets

- A
- B
- C
- H
- 603
- 6F3



-ON



= SPA530-K20-ON



Learn more on-line or request our FoamPro and FRC full line catalogs of foam proportioning, instruments, controls, displays and accessories.

FRC

A Safe Fleet Brand

26 Southern Blvd. Nesconset, NY 11767 • Tel : 631.724.8888 • Fax : 631.360.9727

1.800.645.0074

fireresearch.com • foampro.com



Active Member and Supporter



facebook.com
/ fire.research.corp

SAFE  FLEET



cover photo Keith Muratori