Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364

HL-85-RED

5 Million Candlepower Handheld Spotlight- Red Hunting Lens - 100 Watt Halogen - Spot/Flood Combo

Product ID: 46717



Larson Electronics LLC manufactures a wide variety of products, including custom built to spec designs. The pictures displayed for this unit are a general representation of form factor for the product line and may not accurately represent this exact configuration in every detail due to custom builds and changes between similar products in our standard catalog. The specifics for this configuration are listed in the specification table and supporting documentation (CAD files, Dimensional Drawing, Name Plate Diagram, Wiring Diagram, etc.). This means that specific details (receptacles, plugs, wires, connections, mounting brackets, external finishes, etc.) may not be accurately represented in images vs specifications. Please review specifications and do not order based solely on images.

This lightweight, ultra rugged, ergonomic handheld Larson Electronics spotlight operates on 12 volts or 24 volts DC. Complete with red hunting lens in either 5" or 7" lens diameter that can quickly change from Spotlight to Floodlight. This Larson Electronics spotlight ships with a 16 foot coil cord with cigarette plug and long life 100 Watt bulb. The unique reflector and lens configuration produces a 900 foot beam in spotlight mode, making it approximately 5 million retail candlepower rating. Backed by a 3 year warranty, our new Larson Electronics handheld spotlight is ideal for work, security and hunting and spotting.
Need more power? Take a look at our High Intensity Discharge (HID) Spotlight with 3200 lumens and 15 million Candlepower
This handheld spotlight was designed for a specific purpose and the materials were chosen for the same purpose. There are many handheld lights with similar configuration, however we noticed that quality and durability does not meet the needs of most of our work oriented and industrial users.



Click Photo to Enlarge



Click Photo to Enlarge



Click Photo to Enlarge

Larson Electronics LLC
9419 E US HWY 175, Kemp, TX 75143
Phone: 800.369.6671

www.LarsonElectronics.com
Email: sales@LarsonElectronics.com
Fax: 903.498.3364



5 inch lens Click Photos to Enlarge 7 inch lens (Optional)

The handle and lamp housing support are made from high impact nylon. The polycarbonate lamp housing is thick and contoured for extra support. The 16 gauge internal wiring and connectors are simple and well constructed. The industrial grade, tungsten filament bulb is designed for 1200 hours of life while producing over 5 million candlepower in this configuration. The impact resistant polycarbonate lens is lightweight, shatter resistant and thermal resistant.
The reflector is uniquely shaped and shallow, capturing and focusing the light efficiently and effectively. Combined with a convex lens and inset lens positioning, this light optimally and efficiently captures and projects the right amount of light where the operator wants it. The position of the bulb and the shape of reflector are different than most handheld lighting products. The difference is in how much of the emitted light is captured and focused. In many ways, light shares the properties of the water. With many spotlights, a great deal of the light "spills" on the ground around the light source. While a beam continues to project, much of the light "spills" out around the source, robbing the desired, projected beam of its power. Often times, as much as 50 percent of the light is lost. In the Larson Electronics spotlight configuration, more than 90 percent of the emitted light is captured and focused. A side benefit of this is a reduction of "casting," a phenomenon that occurs when the light "spills" around the light source. Often times, when surrounded by water, snow or other reflective surfaces, the light spillage will cause "casting" which effectively prevents the human eye from adjusting and seeing the objects at distance the spotlight was used to see.
LUX Measurements:In SPOT
At The Lens: 36,600
At 10 Ft: 7,160
At 15 Ft: 2,940
Lens Temp: 160 Degrees F
Head Temp: 103 Degrees F
Lux Measurements: In FLOOD
At the Lens: 32,600
At 10 Ft: 878
At 15 Ft: 358
Lens Temp: 160 Degrees F
Head Temp: 103 Degrees F



The above picture shows the HL-85-R in floodlight mode.



The above picture shows the HL-85-R in spotlight mode.

The above picture shows the HL-85-R in spotlight mode.
The operator can lift the locking tab behind the lamp housing and rotate the lamp head. Rotating the housing enables the operator to adjust the beam from a wide, soft flood pattern to a tight, spot beam to goes out 900 feet. Continued rotation to the extreme disconnects the lamp head from the handle assembly, enabling the operator to replace the bulb when necessary.



Click Photo to Enlarge

Read the Wild Hog Hunters review of this light.

This ultra-durable handheld spotlight weighs only 13 ounces, which makes it easy to carry and operate. The unit is balanced for ergonomic comfort and handling. The ergonomic handle is 4.5 inches long, 1.5 inches deep and 5/8 inch thick, making it easy to hold, even in wet, slipper conditions. The nylon handle has a no-slip textured surface to improve grip as well.

The booted push button switch is conveniently placed so the user can easily access the switch with their fore finger for quick on/off action.

We have changed the wiring and the plug on the current model. Internally, we added 2 strain reliefs and a wire tie. Externally, we modified the coiled cord setup. The previous coiled cord had a multi-layer jacket. We have switched to a single SPT-2 jacket, bringing the cord all the way into the Deutsch plug terminals. This should prevent any failure issues that occur when the operator feels compelled to stretch the cord beyond its limit repeatedly. For those of you needing longer cords, we now offer the C-25CP as an optional accessory, which is a 25 foot straight cord, with heavy jacket and molded cigarette plug.

We have abandoned the multi-spring Asian made cigarette plugs and went back to a US made plug that we attach by hand to the coil cords. Optional accessory straight cords have a similar plug that is actually molded on the end of the wire. The cigarette plugs are a single spring design, which actually holds much tighter in the socket. We couldn`t find a multi-spring plug that didn`t wiggle easily out of the socket. The plugs we use now fit tightly into the socket and some work will be required to remove them. In this way, the operator won`t be struggling with the light blinking on and off every time they move the cord.

A quick note about coil cords. They are measured by their fully stretched length. In this case, we ship this light with a 16 foot coil cord. Coil cords are handy, because their coiled length is shorter and more manageable than a straight cord. However, if you do stretch them to their limit repeatedly, over time the coils will stretch out. At that point, they become more difficult to manage than straight cords. We offer heavy jacketed straight cords as optional accessories that are terminated with spring battery clamps, cigarette plugs, battery ring terminals, NATO connectors and Hubbell plugs.

A 3/8-16" brass nut fixture is imbedded in the base of the handle enabling the operator to mount a magnetic base, like our MM-2 or MM-5 to the light. Alternatively, the operator can tripod mount this spotlight as well.

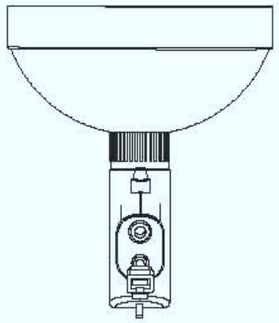
The Larson Electronics spotlight is designed for easy field maintenance. Simple internal connectors are accessed through the snap in base at the bottom of the handle. The lamp housing is easily removed to access the bulb and wiring.

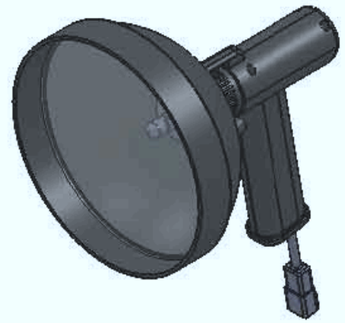
This Larson Electronics spotlight has a lanyard attachment at the top of the handle for users that want to secure the light in the event they lose their grip.

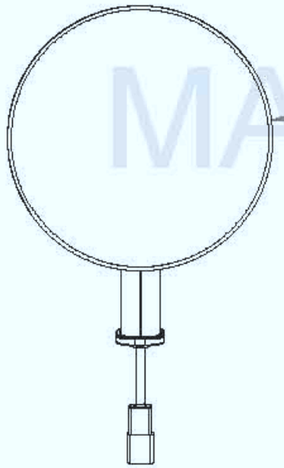
Each Larson Electronics comes with a detachable 16 foot coil cord with cigarette plug. The cord is detached via a weatherproof, 2 pin Deutsch connector which easily and securely attaches and detaches the coil cord from the spotlight. We made some recent changes to the cigarette plug, reverting back to an American made plug that we attach by hand. The plug fits tightly into cigarette plug sockets, so wiggling isn`t an issue. A lot of the Asian made plug simply don`t stay in the socket well when the operator pulls and tugs on the light. The plug contains a 15 amp fuse.

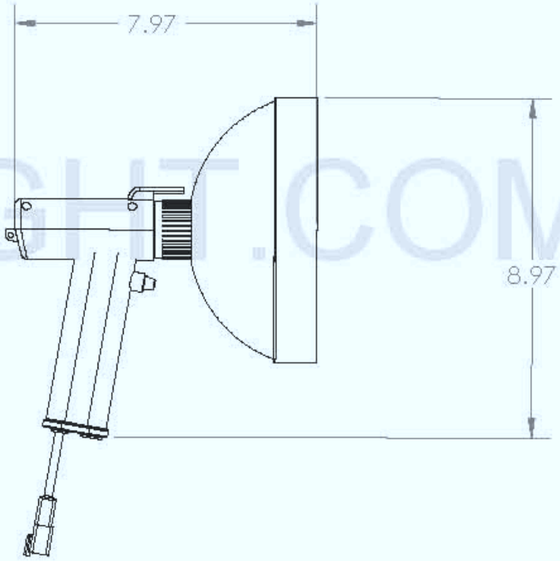
Other cords, including 21 foot cords with ring terminals, 16 foot cord with spring

battery clamps (alligator clips) and a 16 foot straight cord with cigarette plug are available.
The materials used in the construction of the light are UV, water, impact and chemical resistant.
This handheld spotlight draws 8.5 amps on a 12 volt system. The 24 volt version draws 4.25 amps.
This light can be configured to operate on 12 volts or 24 volts DC. This is done by using a 12 volt, H3 bulb or 24 Volt, H3 bulb. H3 replacement bulbs are readily available at any automotive store in the US. All consumer vehicles use 12 volts DC. Most military vehicles use 24 volts DC. There is no difference in light output, instead it is a matter of selecting the right voltage light for your vehicle. If you drive a normal vehicle on normal roadways, you need 12 volts. Most boats have 12 volts systems as well. Military vehicles, some heavy equipment and some boats require 24 volts. Please select the appropriate voltage below.
Note on Voltage: Most vehicles are 12 Volt DC. 24 Volts ***DOES NOT*** mean more power. Running a 24V light from a 12V power source will result in a very dim or non-functioning light, and may cause internal damage to the light as well. For common vehicle use, please order 12V.
CE CERTIFIED









MAGNALIGHT.COM

		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN		
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL	COMMENTS:		
NEXT ASSY	USED ON	FINISH			
APPLICATION		DO NOT SCALE DRAWING			

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF Magnalight.com. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION IS PROHIBITED.

Magnalight.com

TITLE:

HL-85

SIZE	DWG. NO.	REV
B	HL-85	A

SCALE: 1:4	WEIGHT:	SHEET 1 OF 1


HL-85-7







Frequently Asked Questions (FAQ)