

RL-10-IR

Rechargeable HID Handheld Light - 35 Watts - IR850 Covert Lens - 4000' Spot Beam - Spot/Flood Combo

Product ID: 48379

Please see last page for supporting documentation for this product(certificates, CAD files & drawings, IES files, wiring diagrams, etc).



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.

RL-10-IR HID Handheld Flashlight

Lamp Type: 35 Watt Xenon HID (High Intensity Discharge) Bulb

Dimensions: 5" Lens Diameter x 15.5" L

Weight: 6 Lbs - Light w/ battery 13 Lbs - Complete Kit

Total Watts: 35 watts

Voltage: 12V DC

Lighting Configuration: Flood and Spot Light Combo

Amps: 12.2 Starting Amps; 3.3 Run Amps

Mounting: Hand Held

Total Lumens: 3,200

Runtime: 70 minutes

Lamp Color Temperature: 4300 Kelvin

Rating

Special Orders - Special Requirements

Contact us for special requirements

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The RL-10-IR HID Rechargeable Handheld Light from Larson Electronics has a 35 Watt HID bulb that produces 3200 lumens of light output capable of reaching distances to 4,000 feet. The RL-10-IR features several benefits, including a 4,000 foot beam, articulating head, focusable beam and interchangeable batteries. This HID flashlight can also operate directly off of a 12 volt or 24 volt vehicle system via optional vehicle adapter.

The RL-10-IR comes complete with the flashlight, two rechargeable NiMH 12V batteries, an AC charger, a carrying strap and a case. This is a professional grade

unit for industrial, agricultural, law enforcement, emergency services, fire search and rescue and marine use.

This particular model comes standard with the IR 850Nm covert lens, The IR850 cover is a high quality, covert 850Nm infrared blackout lens cover for the RL-10 HID Flashlight. Infrared lens is made from hardened borosilicate and is coated on both sides. Cut off is 850 Nm with 90% + energy transmission rate to 2300 Nm. The infrared lens prevents visible light from passing through the lens. Night vision goggles, binoculars or cameras are required to view objects at distance one the lens is attached. Built to military specifications, this covert infrared lens is applicable to military use and hunting. The infrared lens holder is machined from aircraft grade aluminum and powder coated black. A simple bracket locking system with two thumb screws attaches the cover to the light. Once in place, the cover is secure in any high vibration scenario. To remove the cover, the operator simply gives each thumb screw a full turn and pulls the cover away from the light.

The application of the infrared lens black out cover does not interfere with the lens focusing ability of the HID light. In fact, the cover enables the operator to more easily manipulate the adjustable focusing ring.



This image shows a dark street, illuminated by distance street lights.

SPOT Mode



FLOOD Mode

LUX Measurements:

SPOT

FLOOD

At the lens:	N/A	N/A
At 10 Feet:	40,800	4,680
At 15 Feet:	8,200	2,010
Lens Temp:	121 Degrees F	121 Degrees F
Head Temp:	91 Degrees F	91 Degrees F

The head on the RL-10-IR is made up of heavy duty aluminum and is five inches in diameter. The head on this unit pivots from 90 degrees to 180 degrees with the push of a button. The beam adjusts from flood to spot by rotating the lens. A compact ballast incorporated into the lamp housing provides portability and light weight use.

Power: These flashlights are powered by rechargeable Ni-MH 12 volts batteries. The average recharge time of these batteries is four hours. An LED charging indicator light will illuminate RED when charging and GREEN when fully charged. The charge cord plugs directly into the battery. Each battery has a 70 minute runtime on a full charge.

Note about this HID Flashlight: To date, this is the brightest, toughest portable HID flashlight we have seen. While this started out as a Chinese made flashlight, the electronics and optics of this model has been completely re-engineered to a higher specification, including the use of a GE bulb, 4300 kelvin gas, Taiwanese ballast, Taiwanese switch, etc. We have looked at 50 and 70 watt HID spotlights and flashlights (which use a 35 watt bulb with higher wattage ballast) but there is little comparison. The sheer volume of projected natural colored light, combined with very tough inner and outer construction make this handheld HID flashlight unique.

Note about Batteries: While lithium ion batteries are very popular right now,

they do not push power to the light quickly. Ni-MH batteries will cut the startup time of HID lights nearly in half. This HID flashlight will reach full power in just a few seconds, while many others will require 8-10 seconds to reach full power. Lithium ion batteries are light, have no memory and hold their charge over time on the shelf. The Ni-MH batteries in this HID flashlight have similar properties. When NI-MH batteries are constructed properly, they have no memory and hold their charge over time on the shelf. The Ni-MH batteries in this HID flashlight will discharge completely over a 6 month period of inactivity, where lithium ion batteries take longer to discharge (9-12 months). Lithium ion batteries are very expensive compared to the Ni-MH batteries, which can often double the final price of the HID flashlight. This HID flashlight uses high quality Ni-MH batteries, with run time, recharge and discharge properties similar to lithium ion batteries. These Ni-MH batteries enable the use of higher quality ballast and optics, while keeping the final price competitive. These Ni-MH batteries also enable the light to start more quickly, but they are approximately 1.5 pounds heavier than a lithium ion battery alternative.

For those that are familiar with cordless tools, this HID flashlight works just like any cordless drill. The batteries snap in and out of the base easily. One battery can be charging while the other is in use. A separate accessory, the vehicle adapter snaps into the battery socket, enabling users to run the light off of a 12 volt or 24 volt vehicle's power system indefinitely.

Frequently Asked Questions (FAQ)



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Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- [Dimensional Drawing 2D](#)
- [DXF \(2D CAD Model\)](#)
- [Operations Manual](#)
- [SpecSheetSpanish](#)
- [STEP File \(3D CAD Model\)](#)
- [ISO 9001 Certification](#)
- [Business Certificate](#)
- [Shipping Time Map](#)