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Acro 990X

Acro 990X HID Rechargeable Flashlight with 3200 Lumens - Focusable Beam Pattern to 4000 Feet

Product ID: 97

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.

Acro 990X has 35 Watt Xenon 4300 Kelvin bulb High Intensity Discharge (HID) bulb, 3200 lumens - produces 2700 lux at 25 feet (4 D-cell Maglite produces 280 lux at 25 feet) and reaches 4000 feet. The 990X features several important benefits, including a 4000 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.



This image shows a dark street, illuminated by nothing but distant street lights.



This image shows the same road, this time being illuminated by the Acro 990X. Notice the white picket fence at the end of the road, approx. 3800' away being illuminated clearly by the Acro 990X.



In this image, the Acro 990X in flood mode (simply twist the lens to adjust from spot to flood) is shown illuminating the dark road.

- Beam adjusts from flood to spot by rotating the lens - beam patterns show below
- Heavy-duty cast aluminum head with composite lower housing
- 70 minute run time per battery (2 batteries with come with each flashlight)
- System includes Acro 990X light, 2 rechargeable Ni-MH 12V Rechargeable 4.5 AH Ni-MH batteries, AC charger, and case
- Charge cord plugs directly into the battery (the light can be in use while spare battery is charging)
- Head pivots from 90 to 180 degrees with the push of a button (no tools needed)
- Dimensions: lens is 5 inches in diameter; when positioned in the 90 degree angle, the unit stands 12 inches high and 8 inches long; when fully extended, the unit is 15.5 inches in length
- Lens focus ring adjusts approximately 1/4 turn for focus adjustment to beam pattern
- Compact ballast incorporated into lamp housing for portable, light weight use
- Dust and water resistant design
- Optional 12V car adapter* for extended run time
- Average current draw @12 VDC:
  Start: 12.2amp, Run: 3.3amp (in under 60 sec.)
- Average recharge time: 4 hours - For those of you looking to use an vehicle inverter to recharge the light - the batteries draw .4 amps, so a 75 watt inverter is required
- Weight: Flashlight with Battery, 6 lbs/2.7kg - battery alone weighs 2.4 lbs
  Complete kit, 13 lbs 3 oz/ 5.98kg \

- Easy-to-use slide on/off switch
- Led charging indicator on battery; red indicates charging, green indicates fully charge
- Over 50% less energy consumption compared to conventional lighting
- Professional grade unit for industrial, agricultural, law enforcement, emergency service, fire, search & rescue and marine use

LUX Measurements: In **SPOT**

At The Lens: N/A
At 10 Ft: 40,800
At 15 Ft:8,200
Lens Temp: 121 Degrees F
Head Temp: 91 Degrees F

Lux Measurements: In **FLOOD**

At the Lens: N/A
At 10 Ft: 4,680
At 15 Ft: 2,010
Lens Temp: 121 Degrees F
Head Temp: 91 Degrees F

NOTE ABOUT THIS HID FLASHLIGHT: To date, this is 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 watt 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 will 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 of you 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.

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Frequently Asked Questions (FAQ)

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Harmonized System (HS) Code: 8512.20.2080
Export Control Classification Number (ECCN): EAR99

Links (Click on the below items to view):

- **Dimensional Drawing 2D**
- **DXF (2D CAD Model)**
- **Operations Manual**
- **STEP File (3D CAD Model)**
- **HigResPic1**
- **HigResPic2**
- **HigResPic3**
- **HigResPic4**
- **HigResPic5**
- **HigResPic6**
- **Video1**
- **ISO 9001 Certification**
- **Business Certificate**
- **Shipping Time Map**