

COST-EFFECTIVE BINOCULAR

# The UH-1: Full Capability, Lower Cost

Manual gain control. Dual IR. Modular power. Articulating hinge. The same core features as the MH-1 at a lower price point.

## What the UH-1 Changes

The UH-1 is not a stripped-down MH-1. It is a different approach to the same problem. LLI designed the UH-1 from the ground up as a cost-effective binocular platform that does not sacrifice the features users need most.

Category	Detail
What the UH-1 keeps	Manual gain control, dual-power IR illumination, rotational pod shutoff, IPD stops, onboard and external power, ad
What the UH-1 changes	Polymer housing with metal bridge backer (vs. machined magnesium/titanium). AA battery with external power su

## Construction

The UH-1 uses a lightweight polymer housing reinforced with a rigid metal bridge backer at the hinge assembly. The compartmentalized module architecture simplifies both initial assembly and field repair. If a component takes damage, the modular design allows targeted replacement rather than full housing swap. The interlocking hinge mechanism provides enhanced articulation durability.

The UH-1 housing weighs 166g (5.86 oz) bare. With standard mil-spec optics installed, the complete system weighs 577g (20.35 oz). The UH-1 is designed to meet submersion requirements to 66 feet for 2 hours and is designed to exceed MIL-STD-810G environmental testing standards.

## Key Features

### Expanded Gain Compatibility

The UH-1 uses a 4-pin plug-in manual gain control system compatible with both 3-pin and EGAC tube configurations. This is broader tube compatibility than the MH-1 offers. No soldering. No tube warranty concerns.

### AA Battery Power

The UH-1 runs on AA batteries, the most widely available battery format on the planet. Available in alkaline, lithium, NiMH rechargeable, and lithium-ion rechargeable chemistries. Delivers 25 to 90 hours depending on configuration. External power is also supported via a dedicated port for sustained operations.

## What the UH-1 Does Not Include

No split-to-mono capability. The UH-1 is a binocular and stays a binocular. No color options. Black only. No panning arm compatibility. LLPA is MH-1 only. Polymer construction does not offer the same material toughness as machined magnesium and titanium.

## Specifications

Specification	Value
Type	Articulating Binocular
Material	Polymer with Rigid Metal Bridge Backer
Housing Weight	5.86 oz / 166g
System Weight (Std. Optics)	20.35 oz / 577g
Power Source	AA battery with external power port
Operation Time	25 to 90 hours
FOV	40 deg (50 deg with wide-angle optics)
IPD Range	51mm to 78mm
Diopter Adjustment	-6 to +2
Eye Relief	25mm
Environmental Rating	Designed to meet 66 ft / 2 hr submersion; designed to exceed MIL-STD-810G
Gain Compatibility	3-pin and EGAC
Tube Compatibility	MX-10160 and MX-11769
Optics	PVS-14 style eyepiece and objective
Color	Black
Warranty	Lifetime housing

## Who the UH-1 Is For

Budget-conscious binocular buyers who want the core feature set without the flagship price. The \$500 savings puts more budget toward better image tubes. International users who benefit from AA battery commonality. Operators who do not need split-to-mono. Departments and teams purchasing in volume where per-unit savings add up across the buy.

## How to Buy

Housing-only purchases start at \$1,499. Complete builds are available from LLI's authorized distributor network including Custom Night Vision, GPNVGs, Nightfall Optics, Aurora Tactical Group, and MK4 Design. Every UH-1 is built to order with a typical lead time of 2 to 3 weeks.