

QUEST RANGEFINDING THERMAL BINOCULARS

QUEST binoculars deliver a comfortable and intuitive viewing experience. Unlike thermal monoculars, QUEST binoculars allow user to use both hands and both eyes while scanning, providing a smooth and natural feel similar to traditional daylight binoculars. The QUEST H35R and H50R models feature a $12\ \mu\text{m} \leq 15\ \text{mK}$ 640×512 thermal sensor, while the new-for-2026 QUEST S50R elevates performance with a high-resolution 1280×1024 thermal sensor for enhanced image detail and target recognition. All models utilize the Reality+ image processing algorithm to deliver a vivid, high-contrast image to dual 1920×1200 AMOLED displays, with full resolution to each eyepiece. Each display includes independent diopter and position adjustment for a personalized viewing experience.

QUEST binoculars also feature an integrated 1,000-yard laser rangefinder that operates in both single-firing and continuous modes, displaying real-time distance information directly in the view. Power is supplied by a combination of an internal USB-C rechargeable battery and an auxiliary IRB-2 (18650-style) rechargeable battery, allowing users to hot-swap power sources and stay operational throughout the night. The QUEST lineup is available with either a 35 mm germanium objective lens (H35R) or a 50 mm objective lens (H50R and S50R), and each model includes premium accessories expected from high-end binoculars, including a comfortable and fully adjustable binocular harness.



QUEST H50R pictured with included binocular harness.



Smooth-turning, textured dials control the objective focus (large black dial) and the continuous digital zoom (smaller silver dial) for a fast, intuitive, and ambidextrous user experience.

Independent Zoom and Focus Dials

Intuitive and ergonomic control of digital zoom and object focus

Dual AMOLED Displays

Each eye has a 1920x1200 resolution display with diopter and position adjustment.

Polymer Housing with Rubber Overmold

The textured soft-touch grip is comfortable in all weather conditions.

QUEST H50R



Manual Focus Lens

The large diameter germanium lens provides a sharp image – available with 3x or 4x native magnification.

Internal Battery

An internal battery charges via USB-C and allows users to swap auxiliary batteries without powering down.

IRB-2 Battery

Common 18650 style batteries with a user-facing compartment makes swapping batteries in the field quick and easy.



Integrated Laser Rangefinder

Provides real-time range data (single-firing or continuous) on the display.

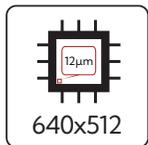
WHAT'S NEW?

All new for 2026, the QUEST Series brings the power of a 1280 thermal core and integrated laser rangefinder to the comfortable and familiar feel of traditional binoculars.

- Dual 1920x1200 AMOLED displays.
- 1,000 yard integrated laser rangefinder
- Focus and zoom are controlled by smooth-turning ergonomic dials.
- Uses common 18650 style rechargeable batteries.
- A fully-adjustable forward-opening binocular harness is included.
- Independent diopter focus and interpupillary adjustment for each eye.

QUEST H35R QUEST H50R **NEW**
QUEST S50R

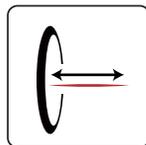
SENSOR		QUEST H35R	QUEST H50R	QUEST S50R
Resolution		640x512		1280x1024
Pixel Size		12 μm		
Frame Rate		60 Hz		
Sensor Sensitivity		≤15 mK		
Image Processing		Reality+		
Core		Nocpix 640		Nocpix 1280
OPTICS				
Objective Lens		35 mm f/0.9	50 mm f/1.1	50 mm f/1.1
Native Magnification		3x	4x	2x
Digital Zoom		8x		
Field of View		12.5° × 10.0°	8.8° × 7.0°	17.5x14
Detection Range		1,970 Yards	2,850 Yards	
Display Type		AMOLED		
Display Resolution		Dual 1920x1200 Displays		
Color Palettes		White Hot, Black Hot, Red Hot, Color, Crimson, Viridian, Violet		
Picture-in-Picture		Yes		
Rangefinder		Integrated 1,000 yd LRF		
Eye Relief		25 mm		
Diopter Range		-5 to +5		
ELECTRONICS				
Onboard Recording		Video and Image		
Onboard Storage		64 GB		
Wireless Connectivity		Image and Video via App.		
Data/Power Connector		USB-C		
Power Supply		USB-C External, Built-in Battery Pack, 18650 Li-ion Batteries ×2 (4+ Hours Each)		
Start Up Time		<10 Seconds, Instant from Standby		
PHYSICAL				
Size		6.91" × 5.43" × 2.60"		
Weight		24.69 oz.		
ENVIRONMENTAL & WARRANTY				
Warranty		5 Years		
Housing Material		Polymer with Rubber Overmold		
Ingress Protection		IP67		
Operation Temperature		-4°F~122°F		



Sensor Resolution



Lightweight Design



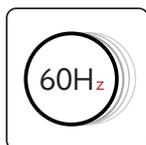
Integrated LRF



Water Resistance



Dual AMOLED Display



Fast Refresh Rate



Removable Battery



INVISIBLE LASER RADIATION **AVOID DIRECT EYE EXPOSURE**
CLASS 3R LASER PRODUCT **905 nm <600 nJ 32 nSec**

To learn more, scan the QR code or visit nocpixusa.com/quest