



HELIOS HD

Thermal Imaging Bi-Ocular



The Armasight Helios HD is a family of Thermal Imaging bi-oculars with professional 75mm and 100mm Germanium (Ge) objective lenses. The bi-ocular design is better for sustained viewing periods and improved depth perception. The Helios HD product line is based on the latest FLIR Tau 2 VOx microbolometer core technology, and includes a variety of different models, each optimizing performance, price, and state-of-the-art capabilities for a variety of uses and missions. The Helios HD is a solid-state, uncooled, long-wave infrared, magnified, dedicated handheld thermal imager intended for day and nighttime missions.

Helios HD Thermal Imaging bi-oculars are characterized by their simple but intuitive controls, functions, and features that are layered among direct button adjustments, direct combination button functions, and electronic menu selections. The Helios HD has the ability to record imagery and is equipped with video-out capabilities.

The Helios HD Thermal Imaging bi-ocular represents one of the most sophisticated devices for long-range observation on the market today, due to its superior price-to-performance value.

- ⓐ **75mm and 100mm Objective Germanium Lens Options**
- ⓐ **Easy and intuitive Drop-down user interface**
- ⓐ **Digital E-Zoom: 1x, 2x, 4x, and 8x**
- ⓐ **Color Modes: White Hot/ Black Hot/ Rainbow/ Various Color Modes**
- ⓐ **Extended Operation Time with Optional External Battery Power Supply**
- ⓐ **Recording: Video Output /Optional Video Recorder with onboard replay**
- ⓐ **Wireless remote control**
- ⓐ **Waterproof, CNC machined aircraft-aluminum alloy construction**
- ⓐ **Rapid start-up**
- ⓐ **Made in the USA**



	Helios 336 HD 5-20x75	Helios 336 HD 8-32x100	Helios 640 HD 3-24x75	Helios 640 HD 4-32x100
Magnification (NTSC/PAL)	10	12	10	12
Digital Zoom	up to 4x	up to 4x	up to 8x	up to 8x
Frame Rate	30/60 Hz	30/60 Hz	30/60 Hz	30/60 Hz
Objective Lens Type	Germanium			
Type of Focal Plane Array	FLIR Tau 2			
Pixel Array Format	336x256		640x512	
Pixel Size	17 μ m		17 μ m	
Resolution	0.23 mrad		0.40 mrad	
Display Type	AMOLED SVGA 060			
Pixel Display Format	800x600			
Field of View	10.3°	7.8°	10.3°	7.8°
Objective Focal Length	72 mm	96 mm	72 mm	96 mm
Objective F-number	1:1	1:1	1:1	1:1
Eyepiece Focal Length	15 mm	15 mm	15 mm	15 mm
Exit Pupil Diameter	10 mm	10 mm	10 mm	10 mm
Focusing Range	5 m to inf.			
Battery	CR123 Lithium 3V (2) or CR123 type rechargeable batteries with voltage from 3.0V to 3.7V (2)*			
Battery Life at 20 °C (68 °F)	> 4 hr (optional up to 12 hours)			
External Power Supply	Optional Extended Battery Pack with rechargeable batteries (up to 8 hours) or 6 VDC/ 1A external power source			
Operating Temperature	-40 to +50°C (-40 to +122°F)			
Storage Temperature	-50 to +70°C (-58 to +158°F)			
Dimensions, mm/in	277x102x100 / 10.9x4.0x3.9	294x137x137 / 11.6x5.4x5.4	277x102x100 / 10.9x4.0x3.9	294x137x137 / 11.6x5.4x5.4
Weight kg / lbs	1.28 / 2.8	1.87 / 4.1	1.28 / 2.8	1.87 / 4.1

* The rechargeable batteries with voltage 3.2V-3.7V can be used only in devices with serial number starting from 140885

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