



HELIOS 3 640-30

Thermal Imaging Bi-Ocular

The Armasight Helios line is the latest and most technologically advanced family of thermal imaging bi-oculars on the market today. Bi-ocular design is better for sustained viewing periods and improved depth perception. The Helios product line is based on the latest FLIR Tau 2 VOx microbolometer core, and includes a variety of different models, each optimizing performance, price, and state-of-the-art technology for a variety of uses and mission applications. The Helios is a solid state, uncooled, long-wave infrared, magnified, dedicated handheld thermal imager intended for day and nighttime missions.

The 24/7 mission capability is just one of the many strengths this product line has to offer. Thermal imaging technology also allows you to detect targets by cutting through snow, dust, smoke, fog, haze, and other atmospheric obscurants. Unlike the use of laser targeting or near-infrared illumination to augment night vision equipment, Helios thermal imagers are extremely difficult to detect with other devices, as they emit no visible light or RF energy.

Armasight is convinced that the Helios thermal imaging bi-ocular represents one of the most sophisticated devices on the market today, due to its superior price-to-performance value.

- ⓐ **The lightest and most compact scope in its class**
- ⓐ **User selectable NTS C or PAL format**
- ⓐ **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**
- ⓐ **Tactical scenarios (CQB, etc.)**
- ⓐ **Waterproof, CNC machined aircraft-aluminum alloy construction**
- ⓐ **Rapid start-up**
- ⓐ **Made in USA**



Item	Helios 3 640-30
Magnification (NTSC/PAL)	2.7x / 3.2x
Frame rate, Hz	30
Objective Lens Type	Germanium
Type of Focal Plane Array	FLIR Tau 2
Pixel Array Format	640x512
Pixel Size	17 μm
Resolution, mrad	0.23
Display Type	AMOLED SVGA 060
Pixel Display Format	800x600
Field of view X/Y (°)	4.3 / 3.3
Objective Focal Length	75mm
Objective F-number	1:1.3
Eyepiece Focal Length	25 mm
Entrance Pupil Diameter	60mm
Exit Pupil Diameter	10 mm
Eye Relief	45 mm
Focusing Range	10m to inf.
Battery	Two CR 123A (2x3V)
Battery Life at 20 °C (68 °F)	4 hr
Operating Temperature	-40 to +50°C (-40 to +122°F)
Storage Temperature	-50 to +70°C (-58 to +158°F)
Dimensions (mm/in)	277x110x75 / 10.9x4.3x2.9
Weight (kg/lbs)	0.9 / 2

