



Zeus 640 2-16x42 (30 Hz)

Thermal Imaging Riflescope

Armasight is excited to introduce its latest and most technologically advanced family of Zeus thermal imaging weapon sights to the sporting, law enforcement, and military markets. The Zeus product line is based on the latest FLIR Tau 2 VOx microbolometer core. Each model of the line has optimizing performance, price, and state-of-the-art technology for a variety of uses and mission applications ranging from the seriously committed hunter to the military designated marksman. While primarily designed as a weapon scope, the Zeus functions equally well in its collateral assignments as a magnified spotting scope or handheld thermal imager.

The Zeus is a solid state, uncooled, long-wave infrared, magnified dedicated weapon scope intended for day and night engagements without the need to remove the sight from the rifle. The 24/7 mission capability is just one of its many strengths. 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, the Zeus thermal imaging weapon sight is extremely difficult to detect with other devices, as it emits no visible light or RF energy.

In addition to being the smallest and lightest in their class, Zeus thermal imaging weapon sights are characterized by their simple and intuitive controls, functions, and features that are layered among direct button adjustments, direct combination button functions, and electronic menu selections. This "layering" of easy-to-understand control functions provides the operator with a framework for customizing his preferences and exploiting the robust variety of setting options available in the Zeus. The Zeus has a unique series of menu selectable temperature sensitive "scenarios" for rapid target detection in addition to a variety of color display presentations based on a rich, upgradeable software package. A wireless remote switch is included to activate the Zeus thermal imaging weapon sight when positioned in the "standby" mode. The Zeus has the ability to record imagery and is equipped with a video-out capability in operator selectable NTSC or PAL formats. The Zeus uses the same multi-pin connector to provide video-in imagery, where there is a need for map or rangefinder display overlays, and external power access.

Zeus weapon installation is easy, repeatable, and reliable based on a unique and highly user-friendly MIL-STD-1913/Weaver/Picatinny rail-compatible, quick-release locking mechanism. The solid state technology and software algorithms, combined with a complementary color reticle platform, ensures maximum reticle contrast, high-level target accuracy, and boresight retention that cannot be achieved with mechanical boresight adjusters and traditional ballistic drums. This level of accuracy is translated into the electronic zoom (e-zoom) function of the Zeus thermal imaging weapon sights, which can be progressively increased from 1x to 2x to 4x and 8x without changing the point-of-aim to point-of-impact relationship of the targeting reticle.

The Zeus thermal imaging weapon sight represents one of the most sophisticated sighting devices available in today's market to hunters, SWAT teams, and military personnel, due to its superior price-to-performance value.



- Ⓐ **The lightest and most compact scope in its class**
- Ⓐ **Optical Magnification 1.8x(PAL)/ 1.5x(NTSC)**
- Ⓐ **User selectable NTSC or PAL format**
- Ⓐ **The latest Tau 2 17-micron uncooled FLIR core technology**
- Ⓐ **Pixel Array Format: 640x512**
- Ⓐ **Display Type: AMOLED SVGA 800x600**
- Ⓐ **Easy and Intuitive Drop-down user interface**
- Ⓐ **Fast 30Hz imaging**
- Ⓐ **Digital E-Zoom: 1x, 2x, 4x and 8x**
- Ⓐ **Color Modes: White Hot/ Black Hot/ Rainbow/ Various Color Modes**
- Ⓐ **6 onboard digitally controlled reticle patterns available: "Dot 4 MOA", "Line Dot", "Cross- Center Dot", "Cross", "Crosshair", and "No Reticle",**
- Ⓐ **Reticle Colors: Black, White, Red, Cyan**
- Ⓐ **Electronic zoom reticle tracking capability maintaining boresight**
- Ⓐ **Extended Operation Time with Optional External Battery Power Supply**
- Ⓐ **Recording: Video Output /Optional Video Recorder with onboard replay**
- Ⓐ **Hunting scenario algorithms for optimized performance (Hog, Coyote, Mountain Lion, etc.)**
- Ⓐ **Tactical Scenarios (CQB, etc.)**
- Ⓐ **Wireless remote control for tactical operations**
- Ⓐ **Waterproof, CNC machined aircraft-aluminum alloy construction**
- Ⓐ **Rapid start-up**
- Ⓐ **MIL -STD-1913 (Picatinny Rail) Quick Release Mount**
- Ⓐ **Integral MIL-STD-1913 Rails on unit for optional day optics or accessories**
- Ⓐ **Limited 3-year warranty**
- Ⓐ **10-year warranty on FLIR detector**
- Ⓐ **Made in USA**



Refresh Rate	30 Hz
Magnification (NTSC/PAL)	1.5x / 1.8x
Objective Lens Type	Germanium
Type of Focal Plane Array	FLIR Tau 2
Pixel Array Format	640x512
Pixel Size	17 μ m
Resolution	0.40 mrad
Display Type	AMOLED SVGA 800x600
Turn-on Time, max	3 sec
Digital Zoom	up to 8x
Image Palettes	White Hot, Black Hot, Fusion, Rainbow, Globow, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice-Fire, Rain, and Custom
Reticle Type	6-Pattern Digitally Controlled: "Dot 4 MOA", "Line Dot", "Cross Center Dot", "Cross", "Crosshair", and "No Reticle"
Reticle Color	Black, White, Red, Cyan
Boresight Adjustment Type	Digitally Controlled
Boresight Increment	1.3 MOA
Analog Input and Output Format	PAL / NTSC
Video Recording	Optional Digital Video Recorder with SD card
Field of View - ang. (X / Y)	14.8 degrees / 11.8 degrees
Objective Focal Length	42 mm
Objective F-number	1:1
Exit Pupil Diameter	10 mm
Eye Relief	45 mm
Focusing	Manual, 5 m to infinity
Dioptr Adjustment	Manual, $\pm$ 5 diopter
Battery	Two CR123 Lithium 3V or two CR123 type rechargeable batteries with voltage 3.2V
Battery Life at 20 $^{\circ}$ C (68 $^{\circ}$ 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
Weapon Mount Type	Picatinny, MIL STD 1913, and Weaver Rails
Operating Temperature	-40 to +57 $^{\circ}$ C (-40 to +134 $^{\circ}$ F)
Storage Temperature	-50 to +85 $^{\circ}$ C (-58 to +185 $^{\circ}$ F)
Overall Dimensions	194x68x78 mm (7.6"x2.7"x3.1")
Weight (w/o Batteries)	0.7 kg (1.5 lbs)