



# Zeus 7 160-30

## Thermal Imaging Riflescopes

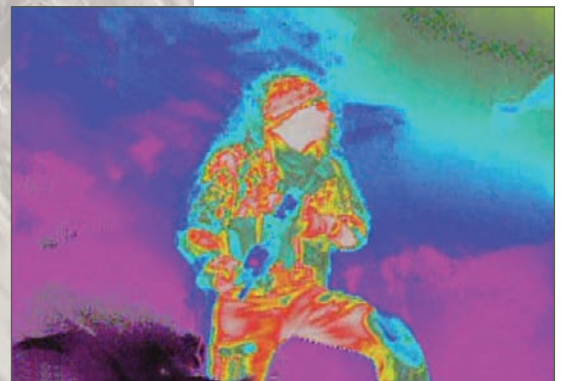
Armasight is excited to introduce its latest and most technologically advanced family of Zeus Thermal Imaging Weapon Sights to the Sporting, Law Enforcement and Military markets. The Zeus product line is based on the latest FLIR Tau 2 VOx microbolometer core and is composed of ten (10) different models – each 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 only one of the strengths of Zeus. The 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 both 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 complimentary color reticle platform used in the Zeus Thermal Imaging Weapon Sight ensure 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 without changing the point-of-aim to point-of-impact relationship of the targeting reticle.

Armasight is convinced that the Zeus Thermal Imaging Weapon Sight represents one of the most sophisticated sighting devices available to hunters, SWAT Teams, and the Military on the market today based on superior price-to-performance value.



- Ⓐ **The lightest and most compact scope in its class**
- Ⓐ **Optical Magnification 8.6x(PAL)/ 7.2x(NTSC)**
- Ⓐ **User selectable NTSC or PAL format**
- Ⓐ **The latest Tau 2 25-micron uncooled FLIR core technology**
- Ⓐ **Pixel Array Format: 160x120**
- Ⓐ **Display Type: AMOLED SVGA 800x600**
- Ⓐ **Easy and Intuitive Drop-down user interface**
- Ⓐ **Fast 30Hz imaging**
- Ⓐ **Digital E-Zoom: 1x and 2x**
- Ⓐ **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**
- Ⓐ **Shuttered eyeguard to prevent facial display backslash and maintain light security**
- Ⓐ **Made in USA**



|                                                   |                                                                                                                          |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Model                                             | Zeus 7 160-30 (30Hz)                                                                                                     |
| Magnification (NTSC/PAL)                          | 7.2x / 8.6x                                                                                                              |
| Objective Lens Type                               | Germanium                                                                                                                |
| Type of Focal Plane Array                         | FLIR Tau 2                                                                                                               |
| Pixel Array Format                                | 160x120                                                                                                                  |
| Pixel Size                                        | 25 $\mu$ m                                                                                                               |
| Resolution, mrad                                  | 0.33                                                                                                                     |
| Display Type                                      | AMOLED SVGA 800x600                                                                                                      |
| Turn-on Time, max                                 | 3 sec                                                                                                                    |
| Digital Zoom                                      | 1x and 2x                                                                                                                |
| 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                               | 1.1 MOA                                                                                                                  |
| Analog Input and Output Format                    | PAL / NTSC                                                                                                               |
| Field of View - ang. (X / Y)                      | 3.0 degrees / 2.2 degrees                                                                                                |
| Objective Focal Length                            | 75mm                                                                                                                     |
| Objective F-number                                | 1:1.3                                                                                                                    |
| Exit Pupil Diameter                               | 10 mm                                                                                                                    |
| Eye Relief                                        | 45 mm                                                                                                                    |
| Focusing Range                                    | 10m to infinity                                                                                                          |
| Diopeter Adjustment                               | Manual                                                                                                                   |
| Diopeter Adjustment Range                         | $\pm$ 5 diopter                                                                                                          |
| Battery                                           | Two CR 123A (2x3V)                                                                                                       |
| Battery Life at 20 $^{\circ}$ C (68 $^{\circ}$ F) | up to 4 hr                                                                                                               |
| External Power Supply                             | 6 VDC/ 1 A                                                                                                               |
| 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                                | 275x70x80 mm (10.8"x2.8"x3.2")                                                                                           |
| Weight (w/o Batteries)                            | 0.8 kg (1.8 lbs)                                                                                                         |