PREDATOR

Thermal Imaging Weapon Sight

Armasight is excited to introduce its latest and most technologically advanced family of Predator thermal imaging weapon sights to the sporting, law enforcement, and military markets. The Predator 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 Predator functions equally well in its collateral assignments as a magnified spotting scope or handheld thermal imager.

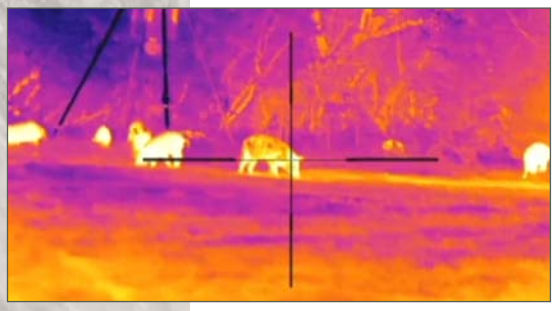
The Predator is a solid state, uncooled, long-wave infrared, magnified dedicated weapon scope intended for day and night engagements without the need to remove the sight from the rifle. The 24/7 mission capability is just one of its many strengths. Thermal imaging technology also allows you to detect 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 Predator 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, Predator 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 Predator. The Predator has a series of selectable color modes based on a rich, upgradeable software package. A wireless remote switch is included to activate the Predator thermal imaging weapon sight when positioned in the "standby" mode. The Predator has the ability to record videos with optional Digital Video Recorder and is also equipped with a video-out capability in operator selectable NTSC or PAL formats. The Predator 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.

Predator 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 Predator thermal imaging weapon sights, which can be progressively increased from 1x to 2x, 4x, and 8x, without changing the point-of-aim to point of-impact relationship of the targeting reticle.

The Predator 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 1x or 2x**
- **The latest Tau 2 17-micron uncooled FLIR core technology**
- **Pixel array format: 336×256 or 640×512**
- **Display type: LED VGA 640x480**
- **Easy and intuitive drop-down user interface**
- **Fast 30Hz or 60Hz 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 Extended Battery Pack**
- **Recording: video output / optional Video Recorder with onboard replay**
- **Wireless remote control for tactical operations**
- **CNC machined aircraft-aluminum alloy construction**
- **Rapid start-up**
- **MIL-STD-1913 (Picatinny Rail) Quick Release Mount**
- **Integral MIL-STD-1913 rail on unit for optional accessories**
- **Limited 3-year warranty**
- **10-year warranty on FLIR detector**
- **Made in the USA**



SPECIFICATIONS

Model Name	Predator 336 2-8x25	Predator 640 1-8x25
SYSTEM DATA:		
Refresh Rate	30 Hz or 60 Hz	30 Hz
Magnification (optical)	2×	1×
Objective Lens Type	Germanium	
Type of Focal Plane Array	FLIR Tau 2	
Pixel Array Format	336×256	640×512
Pixel Size	17 µm	
Display Type	LED VGA	
Pixel Display Format	640×480	
Display Brightness	Discretely Adjustable to 8 Levels	
Turn-on Time, max	3 sec	
Digital Zoom	1×, 2×, 4×	1×, 2×, 4×, 8x
Image Palettes	White Hot, Black Hot, Fusion, Rainbow, Globow, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice-Fire, Rain, and OEM 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	Digitally Controlled	
Analog Input and Output Resolution	640×480 pixels	
Video Recording	Optional Digital Video Recorder with SD card slot	
Remote Control	Wireless	
SPECIAL USER-ADJUSTABLE IMAGING TOOLS:		
Active Contrast Enhancement (ACE) - "CONTRAST"	Yes	
Second Generation Digital Detail Enhancement (DDE) – "SHARPNESS"	Yes	
Smart Scene Optimization (SSO) – "SMART SCENE"	Yes	
Information Based Histogram Equalization (IBHEQ) – "SKY/SEA"	Yes	
User Controlled Manual Non Uniformity Correction/Flat-Field Correction (UCMNUC/FFC)	Yes	
Silent Shutterless NUC ™ (SSN)	Yes	
OPTICAL DATA:		
Objective Focal Length	25mm	
Objective F-number	1:1	
Field of View (ang.)	13° × 10°	25° × 8°
Exit Pupil Diameter	10 mm	
Eye Relief	45 mm	
Focus Method	Manual	
Focusing Range	20m to inf.	
Diopter Adjustment	Manual	
Diopter Adjustment Range	±5 diopter	
BORESIGHT DATA:		
Windage/Elevation Boresight Increment	1.2 MOA 0.35 mils 1.3 in / 100 yd 3.5 cm / 100 m	2.3 MOA 0.7 mils 2.5 in / 100 yd 6.6 cm / 100 m
Windage/Elevation / Elevation Adjustment Range	±96 MOA / ±72 MOA	±180 MOA / ±134 MOA
ELECTRICAL DATA:		
Battery	Two CR123A 3V Lithium batteries or CR123 type rechargeable batteries with voltage from 3.0V to 3.7V (2)**	
Battery Life at 20 °C (68 °F)	up to 4 hr (optional up to 12 hrs)	
Extended Battery Pack	Two 18650 rechargeable batteries (3.7V), four CR123 rechargeable batteries with voltage 3.7V max, or four standard CR123A 3V Lithium batteries (operational time up to 8 hr)	
External Power Supply	6VDC / 600 mA	
ENVIRONMENTAL DATA:		
Operating Temperature	-40 to +50°C (-40 to +122°F)	
Storage Temperature	-50 to +70°C (-58 to +158°F)	
Recoil Resistance	700 *g*	
Environmental Rating	Water and Fog-Resistant	
MECHANICAL DATA:		
Weapon Mount Type	Picatinny, MIL-STD 1913, and Weaver Rails	
Height of the Scope Axis above Rail	42 mm (1.65 in)	
Overall Dimensions	194×68×78 mm / 7.6×2.7×3.1 in	
Weight (w/o Batteries)	0.63 kg / 1.4 lbs	
WARRANTY DATA:		
Warranty	3 years	
Warranty on FLIR detector	10 years	

**Default setting (may be altered at the customer's request)*
*** Rechargeable batteries with voltage 3.0V-3.7V can be used only in devices with serial number starting from 140885*

STANDARD COMPONENTS

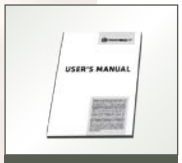

BATTERY CASSETTE


CR123 BATTERY


ADVANCED WIRELESS REMOTE CONTROL


PICATINNY ADAPTER


VIDEO CABLE



OPERATOR MANUAL


CARRYING CASE


HARD SHIPPING/ STORAGE CASE #101

OPTIONAL EQUIPMENT


Part No. ATAM000003
PLATFORM RING


Part No. ANEC000010
SHUTTER EYEGUARD


Part No. ATAM000005
HD DVR DIGITAL VIDEO RECORDER


Part No. ATAM000004
RECORDER DT DIGITAL VIDEO RECORDER


Part No. ATAM000008
EXTENDED BATTERY PACK


Part No. ANAM000045
EXTENDED RAIL ADAPTER #85

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