

## PROMETHEUS HD

### Thermal Imaging Monocular

The Armasight Prometheus HD is a family of Thermal Imaging monoculars with professional 75mm and 100mm Germanium (Ge) High Definition objective lenses. The Prometheus product line is based on the latest FLIR Tau 2 VOx microbolometer core technology, and includes several different models, each optimizing performance, price, and state-of-the-art capabilities for a variety of uses and missions. The Prometheus HD is a solid-state, uncooled, long-wave infrared, magnified, dedicated handheld thermal imager intended for day and nighttime missions.

The Prometheus HD Thermal Imaging monoculars 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 Prometheus has the ability to record imagery and is equipped with video-out capabilities.

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

- Ⓐ Multiple versions with optical magnifications ranging from 3x to 8x
- Ⓐ 75mm and 100mm F1.0 Germanium objective lens options
- Ⓐ High-performance thermal imaging camera
- Ⓐ Lightweight and robust design
- Ⓐ Easy to operate
- Ⓐ Manually adjustable eyepiece and objective lens
- Ⓐ Real-time display
- Ⓐ Digitally controlled features:
  - Palette
  - Enhancement
  - Settings
  - Display Brightness
  - Electronic Magnification
  - User-Controlled Manual Non-Uniformity Correction/ Flat-Field Correction (UCMNUC/ FFC)
- Ⓐ Current operational state information display (battery status, active profile, palette setting)
- Ⓐ Wireless remote control
- Ⓐ Analog video input and output (NTSC/PAL)
- Ⓐ Powered by two standard CR123A batteries
- Ⓐ Power input capability
- Ⓐ Digital video recorder (optional)
- Ⓐ Serviceability under severe conditions
- Ⓐ Filled with dry nitrogen to prevent internal fogging
- Ⓐ Water and fog-resistant
- Ⓐ Limited 3-year warranty
- Ⓐ 10-year warranty on FLIR detector



**SPECIFICATIONS**

Model Name	Prometheus 336 HD 5-20x75	Prometheus 336 HD 8-32x100	Prometheus 640 HD 3-24x75	Prometheus 640 HD 4-32x100
<b>SYSTEM DATA:</b>				
Refresh Rate	30 Hz or 60 Hz			
Magnification (NTSC/PAL)	5.3x / 6.3x	7.0x / 8.4x	2.8x / 3.7x	3.7x / 4.4x
Objective Lens Type	Germanium			
Type of Focal Plane Array	FLIR Tau 2			
Pixel Array Format	336x256		640x512	
Pixel Size	17 µm			
Display Type	OLED SVGA 060			
Pixel Display Format	800x600			
Display Brightness	Discretely Adjustable to 8 Levels			
Turn-on Time, max	3 sec			
Digital Zoom	1x, 2x, 4x		1x, 2x, 4x, 8x	
Image Palettes	White Hot, Black Hot, Fusion, Rainbow, Globow, Ironbow1, Ironbow2, Sepia, Color1, Color2, Ice-Fire, Rain, and OEM			
Analog Input and Output (Resolution)	PAL (768x574 pixels)* / NTSC (640x480 pixels)			
Video Recording	Optional Digital Video Recorder with SD card slot			
Remote Control	Wireless			
<b>SPECIAL USER-ADJUSTABLE IMAGING TOOLS:</b>				
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	
<b>OPTICAL DATA:</b>				
Objective Focal Length	75mm	100mm	75mm	100mm
Objective F-number	F/1.1	F/1.3	F/1.1	F/1.3
Field of View (ang.)	4.3° x 3.2°	3.3° x 2.5°	8.3° x 6.6°	6.2° x 5.0°
Exit Pupil Diameter	14 mm			
Eye Relief	25 mm			
Focus Method	Manual			
Focusing Range	5m to inf.	10m to inf.	5m to inf.	10m to inf.
Dioptr Adjustment	Manual			
Dioptr Adjustment Range	±5 diopter			
<b>ELECTRICAL DATA:</b>				
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			
<b>ENVIRONMENTAL DATA:</b>				
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			
<b>MECHANICAL DATA:</b>				
Overall Dimensions (mm/in)	220x89x89mm (8.6x3.5x3.5 in)	239x116x116mm (9.4x4.6x4.6 in)	220x89x89mm (8.6x3.5x3.5 in)	239x116x116mm (9.4x4.6x4.6 in)
Weight (w/o Batteries)	0.86 kg (1.9 lbs)	1.1 kg (2.4 lbs)	0.86 kg (1.9 lbs)	1.1 kg (2.4 lbs)
<b>WARRANTY DATA:</b>				
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

**OPTIONAL EQUIPMENT**


Part No. ATAM000003

PLATFORM RING



Part No. ATAM000005

HD DVR DIGITAL VIDEO RECORDER



Part No. ATAM000004

RECORDER DT DIGITAL VIDEO RECORDER



Part No. ATAM000008

EXTENDED BATTERY PACK



Part No. ANHC000001

HARD SHIPPING/STORAGE CASE #101