Armasight is excited to introduce its latest and most technologically advanced family of Apollo thermal imaging clip-on systems to the sporting, law enforcement and military markets. The Apollo product line developed based on the latest FLIR Tau 2 VOx microbolometer core and optimizing performance, price, and state-of-the-art technology for a variety of users, from the committed hunter to the military designated marksman.

The Apollo is an uncooled long-wave thermal clip-on device intended to mount in front of the existing magnified day sight. The immediate advantages of this approach of converting the day scope into a thermal imaging device include no change in cheek weld, no change in trigger reach, and continued use of existing ballistic reticules in the day scope. The 24/7 mission capability is only one of the strengths of the Apollo. The thermal imaging technology also allows you to detect targets by cutting through snow, dust, smoke, fog, haze, and other atmospheric obscurants.

The Armasight Apollo eliminates the traditional requirement of removing your existing day scope from your rifle, to replace it with a dedicated thermal sight (which would also involve re-zeroing). The Apollo simply mounts in front of your own standard daytime optical sight. Factory bore-sighted to tolerances of less than 1 MOA, no re-zeroing is required. The Apollo allows the user to maintain consistent eye relief and shooting position, and because the user views his own day scopes reticle (which he is familiar with), no re-training is required.

In addition to being the smallest and lightest in their class, Apollo thermal imaging clip-on systems 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 Apollo. The Apollo 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 Apollo thermal imaging clip-on system when positioned in the “standby” mode. The Apollo has the ability to record imagery and is equipped with a video-out capability in operator selectable NTSC or PAL formats. The Apollo 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.

Apollo 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.

- Converts your day scope, sight, or binoculars into thermal imaging device
- Mounts in front of any day scope with no re-zeroing required
- High-performance thermal imaging camera
- Lightweight and robust design
- Easy to operate
- Manually adjustable objective lens
- Real-time display
- User-adjustable Image Enhancement Tools
- 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)
- Fits any Picatinny, MIL-STD-1913, or Weaver rail with an adjustable quick-release mount
- 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

<table>
<thead>
<tr>
<th>Model Name</th>
<th>Apollo 324</th>
<th>Apollo 640</th>
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</thead>
</table>

## System Data:
- **Refresh Rate**: 30 or 60 Hz
- **Magnification (NTSC/PAL)**: Unity (1x)
- **Objective Lens Type**: Germanium
- **Type of Focal Plane Array**: FLIR Tau 2
- **Pixel Array Format**: 324×256, 640×512
- **Pixel Size**: 25 μm, 17 μm
- **Display Type**: AMOLED SVGA 050
- **Pixel Display Format**: 800×600
- **Display Brightness**: Discretely Adjustable to 8 Levels
- **Turn-on Time, max**: 1 sec
- **Image Palettes**: White Hot, Black Hot, Fusion, Rainbow, Globow, Ironbow 1, Ironbow 2, Sepia, Color 1, Color 2, Ice-Fire, Rain, and OEM Custom
- **Reticule Type**: No reticle
- **Analog Input and Output Format (resolution)**: 90 PAL, 768×576 pixels (NTSC: 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
- **Automatic Gain Control (AGC)** Yes
- **User Controlled Manual Non Uniformity Correction/Flat-Field Correction (UCMNUC/FFC)** Yes
- **Silent Shutterless NUC ™ (SSN)** Yes

## Optical Data:
- **Objective Focal Length**: 42mm
- **Objective F-number**: 1.1
- **Field of View (ang.)**: 11° x 9°, 15° x 12°
- **Exit Pupil Diameter**: 25 mm
- **Focus Method**: Manual
- **Focusing Range**: 5m to Inf.

## Boresight Data:
- **Boresight Accuracy**: Factory aligned to 1 MOA or better
- **Boresight Retention**: Permanent to within 2 MOA or better
- **Boresight Repeatability**: Within 2 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 mА

## 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**: 40.4 mm (1.57 in)
- **Overall Dimensions**: 217×70×80 mm (8.5"×2.8"×3.2")
- **Weight (w/o Batteries)**: 0.7 kg (1.5 lbs)

## Warranty Data:
- **Warranty**: 3 years on FLIR detector, 10 years on CR123 batteries

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**Standard Components**
- **Battery Cassette**
- **CR123 Battery**
- **Advanced Wireless Remote Control**
- **Picatinny Adapter**
- **Video Cable**
- **Operator Manual**
- **Light Suppressor 1**
- **Light Suppressor 2**
- **Light Suppressor 3**
- **CARRYING CASE**
- **HARD SHIPPING/STORAGE CASE 8/9**

**Optional Equipment**
- Part No. ANAM000009
- Part No. ANAM000010
- Part No. ANAM000011
- Part No. ANAM000012
- Part No. ANAM000013
- Part No. ANAM000014
- Part No. ANAM000045
- Part No. ANAM000021
- Part No. ATAM000004
- Part No. ATAM000005
- Part No. ATAM000006
- Part No. ATAM000007
- Part No. ATAM000008
- Part No. ATAM000009
- Part No. ATAM000010
- Part No. ATAM000011
- Part No. ATAM000012
- Part No. ATAM000013