



ARMASIGHT

APOLLO MINI Thermal Imaging Clip-On System



Armasight is proud to introduce one of the smallest Infrared Thermal Imaging Clip-on System, Apollo Mini.

Apollo Mini represents the latest evolution in our never-ceasing quest to reduce size and weight, while maximizing performance and functions. The Apollo Mini has a wide range of features that puts it at the forefront of all other miniature thermal imagers in its class.

The Apollo Mini 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 Armasight Apollo Mini 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; because the operator uses their own, familiar day scope – no re-training is required.

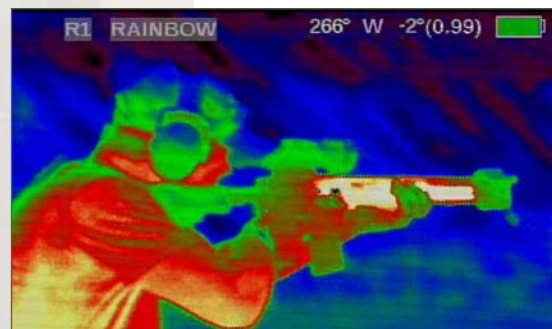
The 24/7 mission capability is only one of the strengths of the Apollo Mini. The thermal imaging technology also allows you to detect targets by cutting through snow, dust, smoke, fog, haze, and other atmospheric obscurants.

Equipped with digital compass and inclinometer, Apollo Mini offers the operator the tools necessary to interpolate accurate distance to target and target orientation.

Collateral applications of Apollo Mini Thermal Imaging Device include functionality as a unity magnification (1x) stand-alone weapon sight and handheld uncooled thermal monocular 1x or 3x (with use of 3x booster).

Armasight has included a compass and inclinometer in the Apollo Mini package for finer range estimation and target orientation. A five-button wireless remote switch is included to operate and modify the settings on the Apollo Mini to optimize the imagery for the viewed scene without having to remove your hands from the weapon.

Utilizing the latest FLIR Quark 2 Technology, the Apollo Mini is offered in 336x256 and 640x512 pixel formats. Additional Armasight proprietary hyper-image processing (HIP) code provides the Apollo with a robust library of software features to tailor the image to the optimum standards required of the operator. These features include direct button functions such as display brightness, palette selection, manual non-uniformity correction (NUC) using a simple, intuitive three button keypad. Menu driven features incorporate desirable operator-specific adjustments such as palette selection, scene-related imaging corrections, stored rifle caliber profiles, format selection, compass calibration sequence, and a "factory settings" default option. The wireless remote capability and Bluetooth features prevents the Apollo Mini from becoming obsolete as new applications and software reaches maturity and comes to market. The nine-pin connector on the Apollo Mini reveals the dynamic nature of this mite-sized powerhouse. Through the multi-pin connector, the operator can record video using the Armasight Digital Video Recorder (DVR), augment the battery life by attaching to external battery options, inject target range data from an externally mounted Armasight laser rangefinder and update/upload new software revision and applications from personal accounts associated with the Armasight customer access web sites.



- ⊗ **24/7 Operation in presence of environmental obscurants (smoke, dust, haze, fog)**
- ⊗ **MIL-810G rugged, waterproof glass fiber reinforced construction**
- ⊗ **FLIR Quark 2 17µm Pitch Thermal Sensor**
- ⊗ **Reliable quick-release locking weapon mount**
- ⊗ **Objective Germanium Lens**
- ⊗ **SVGA 800x600 OLED Display**
- ⊗ **Digital Compass**
- ⊗ **Digital Inclinometer**
- ⊗ **Drop-down menu and icon based menu**
- ⊗ **Simple, intuitive 3-button control**
- ⊗ **Polarity Control (black hot/white hot)**
- ⊗ **Selectable Palettes: White Hot/ Black Hot/ Sepia/ OEM Custom/ Other Color Variants**
- ⊗ **Special User-Adjustable Imaging Tools:**
 - Active Contrast Enhancement (ACE) – "CONTRAST"
 - Second Generation Digital Detail Enhancement (DDE) – "SHARPNESS"
 - Smart Scene Optimization (SSO) – "SMART SCENE"
 - Linear Automatic Gain Control – "LINEAR AGC"
 - Information-Based Histogram Equalization (IBHEQ) – "SKY/SEA"
 - User-Controlled Manual Non-Uniformity Correction/ Flat-Field Correction (UCMNUC/ FFC)
 - Silent Shutterless NUC™ (SSN)
- ⊗ **One 123A battery operation**
- ⊗ **Battery Status Indicator**
- ⊗ **Wireless 5-button Remote**
- ⊗ **Still Picture and Video Recording Capability (DVR Option)**
- ⊗ **Made in the USA**

Sale, transfer, transportation, or shipment outside of the U.S. or to any non U.S. Persons is prohibited. Please contact Armasight for additional information.

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SPECIFICATIONS

Model	APOLLO MINI 336	APOLLO MINI 640
SYSTEM DATA:		
Refresh Rate	30 Hz or 60 Hz	
Magnification (NTSC/PAL)	Unity (1x)	
Objective Lens Type	Germanium	
Type of Focal Plane Array	FLIR Quark 2	
Pixel Array Format	336x256	640x512
Pixel Size	17 μ m	
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
Digital Compass	Yes	
Digital Inclinator	Yes	
Battery Status Indicator	Yes	
Image Palettes	White Hot, Black Hot, Fusion, Rainbow, Sepia, Rain	
Analog Input and Output Format (resolution)	NTSC (640x480 pixels) / PAL (768x574 pixels)	
Remote Control	Wireless (5 buttons)	
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	
Linear Automatic Gain Control (Linear AGC)	Yes	
User-Controlled Manual Non-Uniformity Correction/ Flat-Field Correction (UCMNUC/ FFC)	Yes	
Silent Shutterless NUC™ (SSN)	Yes	
OPTICAL DATA:		
Objective Focal Length	19 mm	35 mm
Objective F-number	F/1.25	F/1.5
Field of View (ang.)	17.2° x 13.2°	17.8° x 14.2°
Exit Pupil Diameter	27 mm	
ELECTRICAL DATA:		
Battery	One CR123A 3V Lithium battery, CR123 rechargeable battery, or 16650 rechargeable battery with voltage from 3.0V to 3.6V	
Battery Life at 20 °C (68 °F)	CR123A - up to 1.5 hr CR123 Rechargeable (650mAh) - up to 1 hr 16650 Rechargeable (2000mAh) - up to 2.6 hr	
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	6V-12V DC / 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:		
Overall Dimensions	124x63x49 mm (4.9x2.4x2.0 in)	112x63x49 mm (4.4x2.4x2.0 in)
Weight (w/o Batteries)	250 g (0.54 lbs)	260 g (0.56 lbs)
Height of the Scope Axis above Rail	37 mm (1.5 in)	
WARRANTY DATA:		
Warranty	3 years	
Warranty on FLIR detector	10 years	

STANDARD COMPONENTS

BATTERY ADAPTER FOR 16650 BATTERY	CR123 BATTERY	16650 RECHARGEABLE BATTERY
CHARGER FOR 16650 RECHARGEABLE BATTERY	ADVANCED WIRELESS 5-BUTTON REMOTE	PICATINNY ADAPTER
LIGHT SUPPRESSOR 1	LIGHT SUPPRESSOR 2	LIGHT SUPPRESSOR 3
LIGHT SUPPRESSOR FOR DAY SCOPE	VIDEO CABLE	OPERATOR MANUAL
CARRYING CASE	HARD SHIPPING/STORAGE CASE #101	

OPTIONAL EQUIPMENT

Part No. ANAM000009 SCOPE MOUNTING SYSTEM 1 #40	Part No. ANAM000010 SCOPE MOUNTING SYSTEM 2 #41	Part No. ANAM000011 SCOPE MOUNTING SYSTEM 3 #42
Part No. ANAM000012 SCOPE MOUNTING SYSTEM 4 #43	Part No. ANAM000013 SCOPE MOUNTING SYSTEM 6 #44	Part No. ANAM000045 EXTENDED RAIL ADAPTER #85
Part No. ATAM000004 RECORDER DT DIGITAL VIDEO RECORDER	Part No. ATAM000005 HD DVR DIGITAL VIDEO RECORDER	Part No. ATAM000008 EXTENDED BATTERY PACK
Part No. IALA00AMRF22001 AMRF2200 ADVANCED MODULAR RANGE FINDER	Part No. ANRA000001 DOVETAIL TO WEAVER TRANSFER PIECE #21	Part No. ANLE30008 3X MAGNIFIER WITH ADAPTER #54