

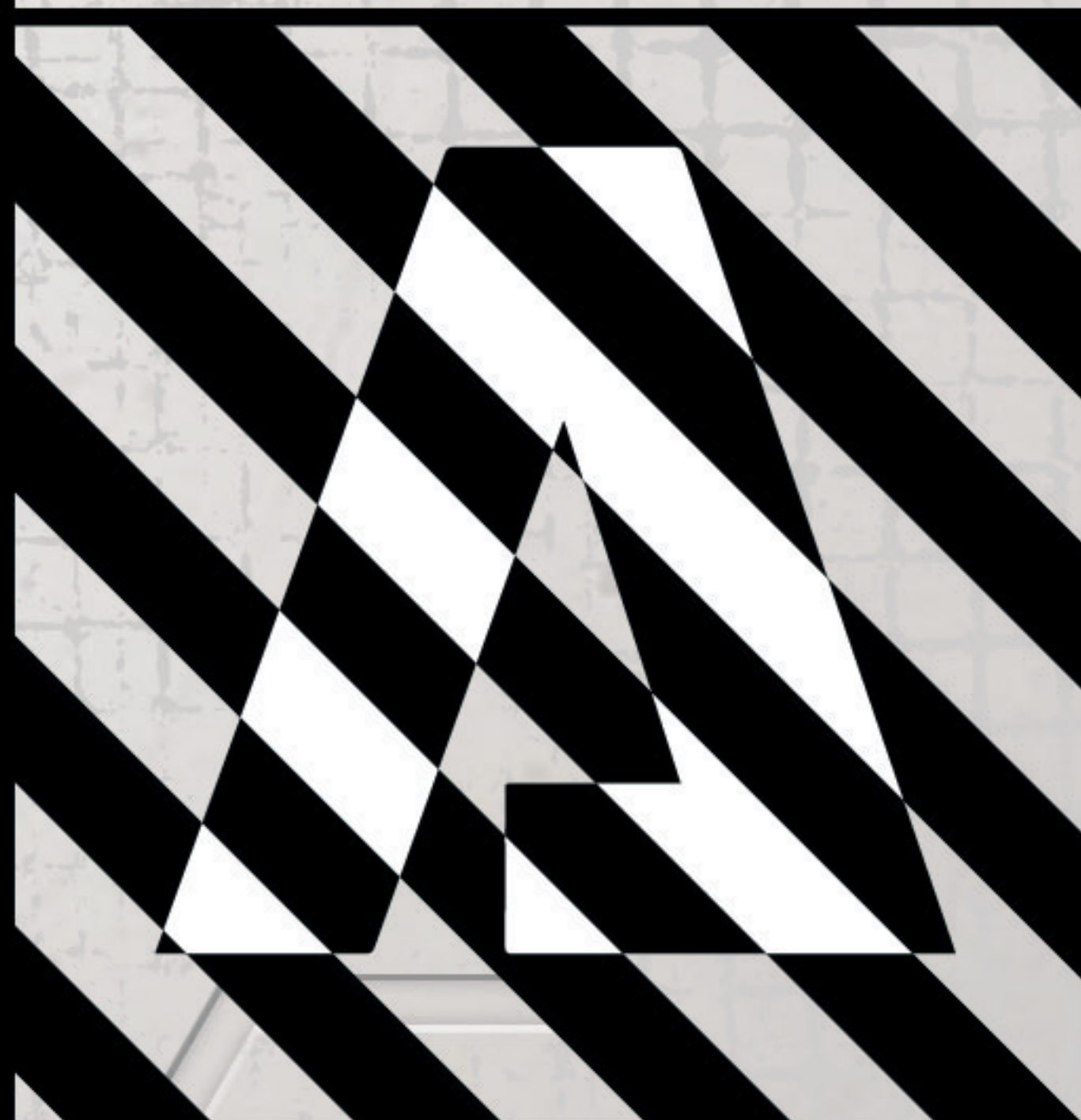


PART NAME:

IGNITE

DESCRIPTION:

THERMAL IMAGING OPTIC



RESOLUTION:

1024 x 768

WEIGHT:

15.8 oz.

SIZE:

35mm

MFG:

ATIBAL™

SUMMARY:

The Atibal Ignite Thermal is a compact thermal imaging device designed to enhance the optical experience of sportsman and outdoor enthusiasts everywhere. The generously sized full color OLED screen and display resolution give the user a large viewing screen with ultra crisp resolution. Four color palettes give the operator a variety of thermal detection abilities enabling the user to better identify targets by selecting the optimal color palette for any situation. The five operating modes ensure that the user is going to get the most optimal device operation in virtually any environment. The Atibal Ignite can be used as a handheld monocular or can be affixed to the objective lens of your rifle scope with our mounting coupler.

OPERATION:

MANUAL FOCUS: The manual focus bezel on the objective lens can be manipulated to better focus the sight picture in the viewport. To manually focus the Atibal Ignite simply rotate the adjustment ring on the objective lens, rotate the focus ring until the sight picture becomes clear in the viewport.

ON/OFF OPERATION: To power the device on, press and hold the power button for at least 3 seconds, once released the device will take a few moments to completely power up. To power the device down press and hold the power button for 5 seconds while the device powers down, then release the power button and the device will shut off.

ZOOM: The Atibal Ignite has a digital zoom function. To use the digital zoom press the Up Arrow button. By default the device will power on in 1x zoom, press the zoom button to zoom in to 2x the magnification, press the button once more to zoom to 4x the magnification, push the zoom button once more to reset back to 1x zoom.

MODES OF OPERATION: By pressing the Menu Button the device will cycle through the various modes of operation. The Atibal Ignite has five modes of operation: DEFAULT, CITY, DESERT, FOREST, AND SNOW. By utilizing a specific mode of operation the thermal imaging device will detect and display heat signatures using optimal detection settings for a variety of environments. Simply select the closest matching mode for your surroundings, ex: SNOW mode for cold and/ or snowy environments, CITY mode for urban environments, etc.

COLOR PALETTES: Use the Down Arrow Button to switch between color palettes. The Atibal Ignite features 4 color palettes: RED HOT, GREEN HOT, WHITE HOT, and BLACK HOT. Any color palette can be used at any time in any environment, by switching through the color palettes the user can select the color palette that renders the best results given the surrounding environment. To switch between color palettes simply press the down arrow button to cycle through the different color palettes.

BATTERY DOOR: The battery door, used to access the battery compartment, is located on the left side of the device in relationship to the user as oriented during typical operation. The Atibal Ignite requires 2x CR123A batteries, average battery life is up to 5 hours during continuous operation in mild temperatures. To access the battery compartment simply unscrew the battery door knob until the door opens and swings freely on the door hinge. Install batteries as per the battery orientation guide inscribed on the battery door. Once batteries have been installed correctly shut the battery compartment access door and tighten the battery door knob until the door is securely fastened and the battery door knob is tightened completely. Do not over tighten the battery access door knob to avoid damaging the device.

VIDEO OUT: The Atibal Ignite Thermal Imaging Device is equipped with video out connection point. Connection point interface requires a 4 pin LEMO Push-Pull Connector equipped cable.

MENU OPTIONS:

To access the menu options press and hold the MENU button until the menu appears on screen in the viewport. Use the UP & DOWN Arrow keys to cycle through the menu options. Once the desired menu option has been found, press the menu button once more to enter the sub-menu, use the arrow keys to cycle through each sub-menu option, once the desired setting has been highlighted press the MENU button again to exit the sub-menu. To exit the menus entirely, scroll to the EXIT icon and press the MENU button. The menu function will automatically close after a short period of inactivity.



BRIGHTNESS: 10 Settings, 1-10 (Low to High), use this setting to adjust the image brightness.



SCREEN BRIGHTNESS: 10 Settings, 1-10 (Low to High), use this setting to adjust the brightness of the screen.



CALIBRATION: 3 Options:



AUTO - Automatic Calibration



SCENE - Scene Calibration

COVER LENS WHEN IN SCENE CALIBRATION



SHUTTER - Shutter Calibration



VIDEO OUTPUT: When activated a VID icon is displayed in the bottom right corner of the screen.



HOT POINT TRACK: When HPT is activated a cursor will be visible on screen. Cursor will track the highest temperature in the scene.



BLUETOOTH: Bluetooth connectivity can be activated and the Atibal Ignite Thermal Imaging Device can be paired with a wireless remote controller.

BLUETOOTH REMOTE offers the same functionality as the on-device control panel.

WIRELESS CONTROLLER SOLD SEPARATELY.

BLUETOOTH ON: "BLUETOOTH IS SEARCHING..." appears and then quickly disappears, while the Bluetooth icon flickers.

SUCCESSFUL BLUETOOTH CONNECTION: "BLUETOOTH CONNECTION SUCCESS" appears and then quickly disappears, while the Bluetooth Icon displays steadily.

BLUETOOTH CONNECTION FAILURE: "BLUETOOTH CONNECTION FAILED" appears and then quickly disappears and the Bluetooth Icon disappears.



AUTO SLEEP: Set Auto Sleep to put the device to sleep during periods of inactivity. Press any button to wake the device from sleep mode.

The Auto Sleep function has 4 options:

NONE, 5 MIN, 10 MIN, 15 MIN



AUTO POWER OFF: Set Auto Power Off to automatically power down the device during periods of inactivity.

The Auto Power Off function has 4 options:

NONE, 15 MIN, 30 MIN, 60 MIN



CONTRAST: 10 Settings, 1-10 (Low to High), use this setting to adjust the screen contrast.

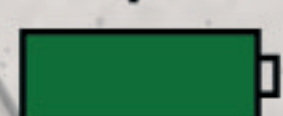


RESTORE DEFAULTS: Select YES to restore device to factory settings.



EXIT: Select the EXIT option to exit the menu.

BATTERY POWER INDICATOR: The battery indicator is located in the top right corner of the screen. A full green battery icon indicates a full battery capacity. A half full green battery icon indicates a medium battery capacity. A small red battery icon indicates a low battery capacity. A red exclamation point inside the battery icon indicates extremely low battery capacity and batteries should be replaced as soon as possible to avoid interruption.



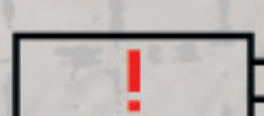
FULL CAPACITY



MEDIUM CAPACITY



LOW CAPACITY



EXTREMELY LOW CAPACITY



NOTES:

MAINTENANCE AND STORAGE

- Maintenance should be conducted periodically to prolong the life of the device. See Below for suggested maintenance measures.
- Wipe the device clean of dust and dirt with a soft cloth moistened with an appropriate cleaning agent.
 - Clean the electric connections of the battery compartment and battery compartment door of all dust and debris using an appropriate natural cleaning solvent.
 - Clean the objective and eyepiece lenses of dust and debris using an appropriate lens cleaning cloth, try to minimize contact with the lenses. Clean the external surfaces of the lenses with products expressly designed for this purpose.
 - Store the device in a secure case. Remove the batteries for long term storage.
 - Avoid using harsh or abrasive cleansers or chemicals on the device.

Problem:	Issue:	Solution:
The thermal imager will not turn on.	Batteries installed incorrectly Batteries are dead	Re-install batteries correctly Replace batteries with new batteries
The image is blurry, visible vertical stripes and uneven background.	Calibration is required.	Calibrate the device using the calibration option in the menus
The image is too dark.	Brightness or contrast level is too low.	Adjust brightness/-contrast using the appropriate option in the menus.
Poor image quality / Reduced Detection range.	Adverse weather conditions may hinder the performance of the device.	

SCOPE ADAPTER:

MOUNTING ADAPTER: Mounting adapters are available in a variety of diameters to better fit your scope. To determine the best mounting adapter for your optic you will need to measure the outside diameter of the objective lens of the optic you are planning to affix your thermal imaging device to.

RUBBER SCOPE SHIM: The mounting adapter for your scope is designed to fit an array of objective lens diameters. To facilitate this the mounting adapter comes with a variety of rubber scope shims. The shims come in a few different thicknesses to help achieve a secure fit. The rubber scope shims also help to protect the surface of the scope housing at the objective lens by providing a barrier between the mounting adapter and your scope.

INSTALLING THE ADAPTER: First, determine which scope shims you will need to use to achieve a secure fit. You may need to use a combination of shims to get the best fit and some cutting may be necessary. Wrap the inside of the adapter with the shim that will give you the best fit, check fitment by installing the scope adapter on your optic and locking down the quick detach lever. Continue this process until a desired fit has been achieved. Once you have determined the best shim configuration for your optic install the scope adapter on your optic and lock down the quick detach lever. With the locking nut already threaded onto you Ignite Thermal Imaging Device thread your thermal device into your scope adapter until you have a secure fit and your thermal device is oriented properly with your scope. Once a secure fit and proper orientation has been achieved tighten the locking nut up against the scope adapter to ensure a secure fit.

KEY FEATURES:

5 OPERATING MODES: DEFAULT, CITY, FOREST, DESERT, SNOW

DISPLAY RESOLUTION: 1024 X 768

DISPLAY: OLED .39"

FRAME RATE: 60HZ

DIGITAL ZOOM: 1X, 2X, & 4X

AUTO TRACKING: HOT POINT TRACKING

CALIBRATION: AUTO SHUTTER CALIBRATION, MANUAL SCENE CALIBRATION

4 COLOR PALETTES: RED HOT, GREEN HOT, WHITE HOT, AND BLACK HOT

CALIBRATION / BRIGHTNESS: ADJUSTABLE

OPERATION: SCOPE MOUNTED (ADAPTER REQUIRED) OR HANDHELD (MONOCULAR)

SPECIFICATIONS:

RETICLE TYPE: NO RETICLE

INGRESS PROTECTION: IP67; DUST TIGHT, WATER PROOF UP TO 1M FOR 30 MINUTES

OPERATING TEMPERATURE RANGE: -22°F ~ 122°F

STORAGE TEMPERATURE RANGE: -113°F ~ 158°F

HUMIDITY: 10% ~ 95%, NON CONDENSING

IMPACT: 500G/1ms

SIZE: 5.98" X 2.13" X 2.09"

WEIGHT: 15.8OZ

BATTERY TYPE: CR123A X 2

BATTERY LIFE: UP TO 5 HOURS OF CONTINUOUS OPERATIONS @ 77°F

LENS FOCAL LENGTH: 35MM, F1.2

FOCUS ADJUSTMENT: MANUAL FOCUS

FOV (HOR.): 10.66°

FOV (VERT.): 8.0°

PUPIL DISTANCE: 10mm

PUPIL CALIBER: 20mm

VIDEO FORMAT: PAL/NTSC

VIDEO OUT INTERFACE: 4 PIN LEMO

WARRANTY: 3 YEAR

DETECTOR SPECIFICATIONS:

RESOLUTION: 400x300@17μm

SPECTRAL RANGE: 8μm~14μm

NETD: ≤50mk @ 77°F / F1.0

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