

TICO 6 Series

THERMAL IMAGING CLIP-ON



MANUAL



AMERICAN
TECHNOLOGIES
NETWORK CORP.

Welcome to the ATN Family!

Thank you for choosing the **TICO 6 Thermal imaging clip-on!**

This manual will guide you through the setup, operation, and maintenance of your device to ensure optimal performance and long service life.

Please read this manual carefully before using the product and retain it for future reference.

REVISION HISTORY

Version	Revision Text	Released
V1.0.0	First release	November 2025

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ABOUT THIS MANUAL

- This manual is provided **for reference only**. Minor differences may exist between the descriptions in this manual and the actual product.
- We are **not liable for any loss or damage** resulting from operation of the product in ways that are not in accordance with this manual.
- The manual may be updated in accordance with the latest **laws, regulations, or product revisions**. For detailed or updated information, please refer to the printed manual, QR code, or our official website.
- All **designs, features, and software** are subject to change without prior notice. Product updates may result in differences between your device and the information in this document.
- **Printing errors or discrepancies** in function descriptions, operations, or technical data may occur. In case of doubt or dispute, we reserve the right of final interpretation.
- If the PDF version of this manual cannot be opened, please **update your reader software** or try another standard PDF reader.
- All **trademarks and registered trademarks** mentioned in this manual are the property of their respective owners.
- If any issues occur while using the device, please **contact your supplier, local distributor, or customer service** for assistance.
- In the event of any uncertainty or disagreement, the manufacturer reserves the **right of final explanation**.

1. PRODUCT INTRODUCTION

The **TICO 6 Thermal imaging clip-on system** provides high-precision thermal imaging with exceptional clarity and a fast frame rate, ensuring smooth and accurate target tracking even in dynamic environments.

Designed for continuous operation under all lighting and weather conditions, the clip-on detects the thermal signatures of objects, animals, and structures in complete darkness, fog, haze, or intense light, maintaining optimal situational awareness in every scenario.

Built for demanding field applications, the **TICO 6** delivers reliable performance, advanced image processing, and consistent visual quality across a wide range of operational environments.

2. PRODUCT OVERVIEW

2.1 PACKAGE CONTENTS



Rubber adapter



ATN TICO 6 clip-on



Mount



USB Type-C cable



Remote control



Carrying bag



Heated target for zeroing



Lens cloth



2x18650 rechargeable batteries (1 already inside device)



Battery charger

2.2 DEVICE DESCRIPTION

FOCUS ADJUSTMENT RING



USB TYPE-C

MOUNTING THREAD



BATTERY
COMPARTMENT

BATTERY COMPARTMENT
SWITCH

CAUTION!

THIS PRODUCT CONTAINS NATURAL RUBBER LATEX, WHICH MAY CAUSE ALLERGIC REACTIONS

The instructions in this manual are for informational use only and subject to change without notice. This manual is not to be construed as a commitment by ATN Corp. ATN Corp. assumes no responsibility or liability for any errors or inaccuracies that may appear in this book.

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2.3 BUTTON DESCRIPTION

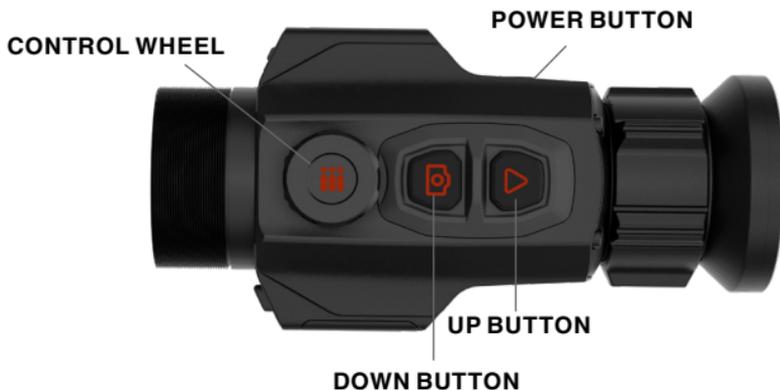


Table 2.3 Button description

Button	Current Status	Short Press	Long Press
POWER BUTTON	Powered off	—	Power on the device
	Home screen	NUC (Non-Uniformity Correction)	On the Home screen, a 3-2-1 countdown prompt appears: <ul style="list-style-type: none">• If the Power button is released during the countdown, the device enters into Standby mode.• When the countdown completes, the device will power off.
	Quick/Main Menu interface	Return to Home screen	

Button	Current Status	Short Press	Long Press
UP BUTTON	Home screen	————	Change Palette
DOWN BUTTON	Home screen	Take a photo	Start/Stop video recording
CLICK CONTROL WHEEL	Home screen	Enter the Quick Menu interface	Enter the Main Menu interface
	Quick Menu interface	Adjust parameters	Save and back
	Main Menu interface	Adjust parameters / Enter the submenu	Save and back
	Zeroing/ Pixel Correction interface	Switch the movement direction	Save and back
ROTATE CONTROL WHEEL	Home screen	————	
	Quick Menu interface	Change options and values	
	Main Menu interface	Change options and values	
	Zeroing/ Pixel Correction interface	Change position	

2.4 SPECIFICATIONS

	TICO 6 225	TICO 6 335	TICO 6 650
Detector Type	12 μ m VOx Uncooled Focal Plane Array		
Sensor Resolution	256×192	384×288	640×512
Refresh Rate	50 Hz		
Thermal Sensitivity (NETD)	≤20mK	≤18mK	≤18mK
SharpIR©	Yes		
Non-Uniformity Correction (NUC)	Auto / Semi Auto / Manual		
Lens System	25 mm (Ge); F/1.0	35 mm (Ge); F/1.0	50 mm (Ge); F/1.0
Field of View (HxV)	7.0° × 5.3°	7.5° × 5.7°	8.8° × 7.0°
Focus Mechanism	Manual, Front Lens Adjustment		
Magnification	1x		
Detection Range	1500 m	2710 m	3500 m
Display Resolution	0.32" OLED, 800×600 Resolution	0.49" OLED, 1920×1080 Resolution	0.49" OLED, 1920×1080 Resolution
Color Palettes	White Hot, Black Hot, Iron Red, Alarm, Green Hot, Sepia		
Internal Storage Capacity	64 GB		
Video / Audio Recording	Yes		

	TICO 6 225	TICO 6 335	TICO 6 650
Monocular Mode		Yes	
Hot Point Tracking		Yes	
Geomagnetic + Gyroscope		Yes	
Internal Gallery		Yes	
Recoil Activated Video (RAV)		Yes	
Standby / Sleep Mode		Yes	
Startup Time		<7 seconds (instant from Standby)	
Media Output		USB Type-C	
Built-in Wi-Fi (Hotspot)		Yes	
Wireless Remote control		Yes (Included)	
App (Apple Store/Google Play)		Yes (ATN Connect 6 – iOS & Android)	
Battery Type		1 × 18650 Rechargeable (Replaceable)	
Battery Life	~8 hrs	~8 hrs	~7 hrs
Supports External Power Supply		Yes, USB Type-C (5 VDC / 2A)	
Material		Magnesium Alloy	
Mounting		Quick Detach(Included) / Scope Mounting System(add-on)	
Weight	511 g / 1.12 lbs	534 g / 1.15 lbs	564 g / 1.24 lbs

	TICO 6 225	TICO 6 335	TICO 6 650
Dimensions (L x W x H)	159×85×74 mm (6.25×3.34×2.91 in)	163×85×74 mm (6.41×3.34×2.91 in)	175×85×74 mm (6.88×3.34×2.91 in)
Max Recoil Rating	6000 Joules / 1000g acceleration over 0.4 ms		
Operating Temperature	-30°C to 55°C (-22°F to 131°F)		
Waterproof / IP Rating	IP67		

**Specifications subject to change without notice.*

Actual battery life may vary depending on the frequency of feature usage such as Wi-Fi, video recording, and other power-consuming functions.

Design and software improvements may be implemented to enhance product performance without prior notice.

The latest version of this user manual is available for download at: www.atncorp.com

2.5 MOUNTING THE CLIP-ON

Follow the steps below to correctly mount your **TICO 6 Thermal imaging clip-on** using the supplied **Spacer mount**(for US Market), additionally the device can be mounted using a **QD (Quick-Detach) clamp*** . The **Spacer mount** is mounted to the clip-on with two bolts with locks and is secured to the rifle rail with a quick-release lever guaranteeing quick, repeatable installation and removal. The **QD clamp** secures to the scope already mounted on your rifle with a QD clamp with quick-release lever for fast, repeatable installation and removal.



**QD Clamp sold separately.*

Picatinny rail mounting procedure:

1. Prepare the Spacer mount

- Check the provided mount for mechanical damage.
- Use the two screws provided with the mount to attach the TICO 6 to the mount.
- Make sure the conic heads of the screws are lying in their beds in the mount properly and tighten the two screws.
- Open the QD lever so the mount can be placed on the Picatinny rail of the weapon platform.
- Ensure the two mounting bolts with the quick-release levers are loosely installed so that the mount can sit fully on the upper surface of the teeth of the Picatinny rail of the weapon platform.
- Mount the rubber adapter on the back of the TICO 6 to reduce light pollution.

2. Attach assembly to the Picatinny rail

- Place the mount assembly onto the rifle rail at the chosen position.
- Close the QD quick-release lever to lock the mount onto the rail.

- Check if the lever tension needs adjustment, It should be moving freely about 60% of the travel from open to closed position. The tension needs to increase in the last 30-40% of movement to the fully closed position.
 - If it is too loose or too tight - open the lever and push it in, so that its threaded nut pops out from the opposite side of the QD mount.
 - With the nut popped out - rotate it CW or CCW to tighten or loosen it. Then release the pressure from the lever side so it can sink back into its nest.
3. **Final alignment and tightening**
- With the lever closed and the QD mount tightened to the rail of the weapon platform, ensure the clip-on is level.
 - Confirm the QD lever is firmly closed, locked and the mount is securely fixed.

QD clamp mount mounting procedure

1. **Prepare the QD Clamp**

- Check the mount for mechanical damage.
- Mount the proper size clamp adapter for the scope you are using to the scope and make sure the clamp is seated fully on the scope
- Close the locking lever, make sure the most pressure is used at the very beginning of the lock mechanism, after that the latch should move easier.

2. **Attach assembly to the clamp**

- Align the slots and place the twist mount assembly onto the rifle scope clamp.
- Close the QD twist lever to lock the mount onto the scope.

3. **Final alignment and tightening**

- With the lever closed and the QD clamp tightened to the scope of the weapon platform, ensure the clip-on is level.
- Confirm the QD twist lever is firmly closed, locked and the mount is securely fixed.
- Align the rotation of the clip-on so it stays horizontal with the scope you are using.
- Tighten the lock screws that lock in the rotation of the clip-on twist lock.

2.6 MOUNTING THE EYEPIECE

1. **Prepare the Eyepiece (NOT INCLUDED IN BOX)**
 - Check the Eyepiece for mechanical damage.
2. **Attach the Eyepiece to the clip-on**
 - Align the slots and place the twist mount assembly onto the internal side of the mounting thread.
 - Close the QD twist lever to lock the mount onto the scope.
3. **Final alignment and tightening**
 - Confirm the QD twist lever is firmly closed and locked

3. DEVICE OPERATION

3.1 POWER SUPPLY

The TICO 6 Thermal imaging clip-on system is powered by a **single removable 18650 rechargeable battery** (included in the package).

The device can also be powered or charged directly through the **USB Type-C port**.

NOTES

Use only high-quality, button-top 18650 batteries to ensure proper contact and reliable performance.

When connecting external power via Type-C, the device can operate and charge simultaneously.

Always ensure the battery is fully charged before extended use in the field.

3.1.1 INSTALLING THE BATTERY

1. Open the cover of the battery compartment located on the right side of the clip-on.
2. Insert the provided 18650 rechargeable battery, ensuring it is installed according to the polarity markings on the device housing.
3. Close the battery compartment cover securely.

3.1.2 CHARGING THE BATTERIES

The 18650 Li-ion batteries supplied with the device must be charged using the battery charger included in the set.

The charger is powered via a USB-C input using the supplied USB-A to USB-C cable (there is one included in the device set) and a AC-to-5 V DC power adapter (**not included in the device set**).

The charger has a display that provides the following information for each battery slot, individually:

- Battery charge level
- Battery voltage
- Charging current

Recharge batteries promptly when the charge level is low to ensure proper operation and long-term battery health.

Charging Guidelines:

- Charge batteries only within a temperature range of 32°F to 140°F (0°C to 60°C).
- Use only the charger provided with the device set.
- Use a stable 5 V DC USB power adapter that meets the charger's input requirements.
- Do not charge batteries that are damaged, swollen, or leaking.
- Insert batteries observing the correct polarity markings in the charger slots.

Charging Steps:

1. Remove the 18650 battery from the device.
2. Insert the battery into the charger, observing the polarity markings.
3. Connect the supplied USB-A to USB-C cable to the charger's USB-C connector.
4. Connect the USB-A end of the cable to a user-supplied 5 V DC power adapter, then plug it into an AC outlet.
5. Monitor the charging progress on the charger display until charging is complete.

RECOMMENDATION

For long-term storage, store the 18650 Li-ion battery outside of the device, in order to avoid heat-accelerated aging, gas-induced mechanical stress, and potential electrolyte venting that could damage internal components.

3.2 POWER ON / OFF

Power On

Press and hold the **Power button** until the ATN logo appears on the display. After startup, remove the **lens cover** before operation.

Power Off

Press and hold the **Power button** until the countdown **3-2-1** finishes. Once the countdown completes, the clip-on will power off automatically.

Standby Mode

To enter **Standby Mode**, press and hold the **Power button**, then **release it before** the countdown **3-2-1** ends.

To wake the clip-on from **Standby Mode**, short-press the **Power button** once.

TIP

Standby Mode allows faster wake-up at the price of increased power consumption.

3.3 INITIAL SETUP

When starting the clip-on for the first time, or after performing a factory reset, you will need to set the **language**, **Wi-Fi password** and **device time**.

Step 1: Power On

Press and hold the **Power button** to turn on the clip-on. The **Language Selection** screen will appear.

Step 2: Set Language

1. Rotate the **Control Wheel** to highlight your preferred language.
2. Press the **Control Wheel** to confirm. The **Wi-Fi Password** screen will appear.

Step 3: Set Wi-Fi Password

1. Use the **Control Wheel** to navigate the menu. You can either select every single digit from the password or skip the process from the Skip item.
2. If you skip the process the device will use the default password “12345678.”
3. If you want to change the password, you can use the **Control Wheel** to select each digit of the password separately, **press** the **Control Wheel** to select it and then again **rotate** the **Control Wheel** to change the value of the digit. The new value of the digit is **confirmed** by **pressing** the **Control Wheel**.

You can change any digit of the password this way.

The newly configured password is confirmed by pressing the Control Wheel on the NEXT item in the password setup menu.

Step 4: Set Device Time

1. Rotate the **Control Wheel** to select the time field (hours, minutes, seconds).
2. Press to confirm, then rotate to adjust. Repeat for each field. Once done, select **Next** and press the Control Wheel.

The Home screen will appear, and the clip-on is ready for use.

3.4 IMAGE ADJUSTMENT

3.4.1 FOCUS ADJUSTMENT



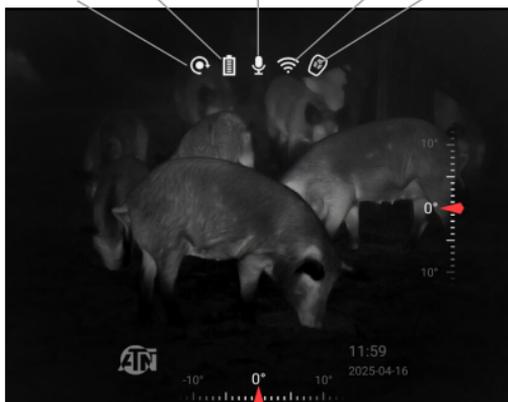
Manually rotate the **Focus Adjustment Ring** to achieve a clear image of the target.

Steps:

1. Aim the clip-on at your target.
2. Rotate the **Focus Adjustment Ring** clockwise or counterclockwise until the image becomes crisp and well-defined.

3.4.2 STATUS BAR DISPLAY

BATTERY LEVEL STATUS MIC STATUS WI-FI STATUS
RAV STATUS REMOTE STATUS



The **Status Bar** provides real-time information about the device condition and connection status.

To enable or disable the status bar:

1. **Press and hold** the **Control Wheel** to open the **Main Menu**.
2. **Rotate** the wheel to navigate to **Settings** → **Status Bar**.
3. **Press** the **Control Wheel** to toggle the Status Bar **On** or **Off**.
4. **The status bar** will now appear (or disappear) on the display.

TIP

Keeping the status bar enabled ensures you can monitor key system parameters during operation.

Table 3.4.2 Description of the status bar

Icon	Name	Description
	RAV status	<ul style="list-style-type: none">• When RAV is enabled, the clip-on automatically starts video recording once the impact sensor detects a shot.• When RAV is disabled, the clip-on will not start recording automatically.
	Battery level status	Displays the current battery charge level in real time.
	MIC status	<ul style="list-style-type: none">• The microphone is active — videos will be recorded with sound.• The microphone is turned off — videos will be recorded without sound.
	Wi-Fi status	<ul style="list-style-type: none">• The Wi-Fi module is active — the device can connect to a smartphone or other devices.• Wi-Fi is turned off — wireless connection is unavailable.
	Remote status	Displays the current connection status of the Remote control.

3.4.3 ADJUSTING BRIGHTNESS

Adjusts the overall display brightness. Increasing the level makes the image appear brighter.

To adjust brightness:

1. Press the **Control Wheel** to open the **Quick Menu**.
2. Rotate the **Control Wheel** to select **Brightness** .
3. Press the **Control Wheel** to confirm.
4. Rotate the **Control Wheel** to increase or decrease brightness.

TIP

Higher brightness levels improve visibility in daylight, while lower levels are recommended for night operations.

3.4.4 ADJUSTING SHARPNESS

Controls the clarity of object edges in the image. Higher sharpness levels make contours appear more defined.

To adjust sharpness:

1. Press the **Control Wheel** to open the **Quick Menu**.
2. Rotate the **Control Wheel** to select **Sharpness** .
3. Press the **Control Wheel** to confirm.
4. Rotate the **Control Wheel** to increase or decrease sharpness.

TIP

A moderate sharpness level provides a natural and balanced image.

3.5 VIDEOS RECORDING AND CAPTURING IMAGES

3.5.1 RECORDING VIDEOS

To manually record a video, follow these steps:

1. On the **Home screen**, **press and hold the Down button for 3 seconds** to start recording.
 - The **recording icon** will flash on the screen.
 - The **recording timer** will appear, showing the elapsed time.
2. To **stop recording**, **press and hold the Down button** again for **3 seconds**.
 - The recording icon will disappear.
 - The video camera icon with a check mark will display briefly on screen.

NOTE

Videos are automatically saved in the Gallery and can be viewed or exported later through the Type-C connection.

TIP

Make sure you have enough storage space before recording long videos.

3.5.2 CAPTURING IMAGES

To take a still image:

1. On the **Home screen** press the **Down button** once.
2. When the image is successfully saved, a **camera icon** will appear briefly on the screen.

NOTE

Images are automatically saved in the Gallery and can be viewed or exported later through the Type-C connection.

4. CONFIGURING THE CLIP-ON

4.1 QUICK MENU



The **Quick Menu** provides fast access to the most commonly used image settings, allowing you to adjust the display without entering the full system menu.

You can quickly modify **Brightness, Sharpness, SharpIR, Contrast, Forest Mode, Palette, RAV (Recoil Activated Video)**.

To access and use the Quick Menu:

1. **Press the Control Wheel** to open the **Quick Menu**.
2. **Rotate the Control Wheel** to highlight the parameter you wish to adjust.
3. **Press the Control Wheel** to confirm and modify the selected parameter.
4. **Rotate the Control Wheel** again to fine-tune the value.
5. **Press the Control Wheel** to **exit and save** the configuration.

TIP

The Quick Menu is designed for rapid adjustments in the field—ideal when lighting or environmental conditions change suddenly.

Table 4.1 Quick Menu

Icon	Name	Description
	Brightness	Adjusts the overall screen brightness. Increasing brightness helps in daylight, while lowering it improves visibility at night.
	Sharpness	Controls the clarity of image edges. Higher sharpness enhances detail, while lower settings make the image smoother.
	SharpIR	Powered by ATN's proprietary SharpIR® technology , the device uses advanced AI-driven algorithms to enhance image sharpness and clarity in real time. This intelligent processing dynamically refines edge definition and contrast, making it easier to distinguish heat signatures in cluttered or low-visibility environments.
	Contrast	Adjusts the difference between warm and cold areas to enhance image depth and object separation.
	Forest Mode	Optimizes the thermal image for environments with dense foliage, enhancing object visibility and fine detail in areas with heavy vegetation.
	Palette	Selects the thermal color scheme used to represent temperature variations on the display.
	RAV (Recoil Activated Video)	The RAV function automatically starts video recording when the clip-on detects recoil from a shot.

4.2 MAIN MENU

The **Main Menu** provides access to all advanced configuration options of the clip-on.

Press and hold the **Control Wheel** to open the Main Menu. Rotate the Control Wheel to navigate through the categories and press it to enter a selected item.

MAIN MENU STRUCTURE

1. **Thermal**
2. **Zeroing Profile**
3. **Zeroing Setup**
4. **Gallery**
5. **RAV**
6. **Functionalities**
7. **Settings**

4.2.1 THERMAL

This section allows you to adjust key image parameters to achieve the best thermal performance under different environmental conditions.

Use it to fine-tune brightness, contrast, sharpness, and color palettes for optimal image clarity, detail, and target detection.

Table 4.2.1 Thermal menu

Icon	Name	Description
	Brightness	Adjusts the overall screen brightness. Increasing brightness helps in daylight, while lowering it improves visibility at night.
	Contrast	Adjusts the difference between warm and cold areas to enhance image depth and object separation.

Icon	Name	Description
	Sharpness	Controls the clarity of image edges. Higher sharpness enhances detail, while lower settings make the image smoother.
	SharpIR	Powered by ATN's proprietary SharpIR® technology , the device uses advanced AI-driven algorithms to enhance image sharpness and clarity in real time. This intelligent processing dynamically refines edge definition and contrast, making it easier to distinguish heat signatures in cluttered or low-visibility environments.
	Palette	Selects the thermal color scheme used to represent temperature variations on the display.
	Forest Mode	Optimizes the thermal image for environments with dense foliage, enhancing object visibility and fine detail in areas with heavy vegetation.

Available Color Palettes:

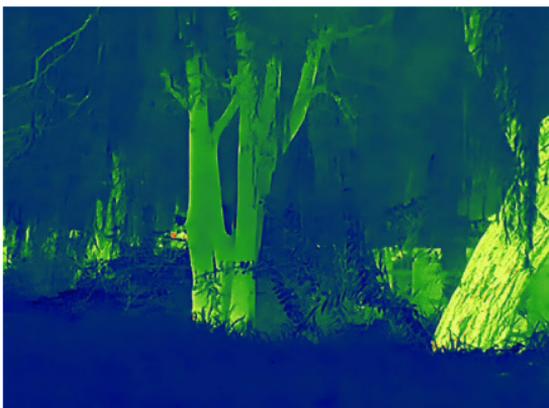
White Hot: Hotter objects appear white. The higher the temperature, the brighter the image.



Sepia: Hotter objects appear amber. Higher temperatures produce brighter tones.



Green Hot: The coldest objects are colored in blue, the hotter the objects get they move to green and the hottest ones are colored in yellow.



Alarm: Hot objects appear red for quick visual detection.



Iron Red: Hotter objects appear in red or orange tones.



Black Hot: Hotter objects appear darker; colder areas are lighter.



TIP

Choose the palette that provides the best contrast for your environment or preference.

4.2.2 ZEROING PROFILE

This menu displays all existing zeroing profiles and allows basic management functions.



Table 4.2.2 Zeroing Profile menu

Icon	Name	Description
	Zeroing Profile	Displays the list of available profiles stored in the device. Each profile can contain a unique configuration, allowing you to maintain different setups for various rifles.
	Distance	Select the target distance at which your ballistic profile is set to. Use the Control Wheel to choose a distance value according to your shooting setup

4.2.3 ZEROING

The Zeroing Setup section allows you to precisely align the image of the clip-on over the rifle scope's reticle for each saved profile.

From this menu, you can fine-tune reticle position and use the freeze-frame function for accurate image positioning.

Table 4.2.3 Zeroing Setup menu

Icon	Name	Description
	Position Adjustment	Adjust the position of the image along the X (horizontal) and Y (vertical) axes to align the image with the reticle of the rifle scope. Press and hold the Control Wheel to confirm and save the adjustment.
 	Freeze Frame	Capture a still frame of the current image to simplify zeroing. After firing, activate Freeze Frame to lock the display image, then adjust the reticle without worrying about target movement or heat dissipation.
	Save & Back	Saves the changes and returns the user to the Main Menu.

4.2.4 GALLERY

All photos and videos captured on the clip-on are automatically stored in the internal memory.

You can access and review them directly from the device through the **Gallery** menu.

Steps

1. **Press and hold** the **Control Wheel** to open the **Main Menu**.
2. **Rotate** the **Control Wheel** to select **Gallery**, then press to open it.
3. **Browse and view** content:
 - **Rotate** the Control Wheel to scroll through the list of saved images and videos.
 - **Press** the Control Wheel to open and play the selected file.

TIP

Long-press the Control Wheel to exit the Gallery and return to the Main Menu.

4.2.5 RAV (RECOIL ACTIVATED VIDEO)

The **RAV** function automatically starts video recording when the clip-on detects recoil from a shot.

This ensures you never miss a key moment without needing to manually press record.

Steps

1. **Press and hold** the **Control Wheel** to open the **Main Menu**.
2. **Rotate** the Control Wheel to select RAV.
3. **Press** the Control Wheel to toggle the feature:
 - **On** — The clip-on will automatically record when recoil is detected.
 - **Off** — Recording will only occur manually when the user presses the record button.

TIP

Ensure the device is securely mounted to detect recoil accurately.

NOTE

The RAV function may not trigger with low-recoil calibers or when using suppressors.

4.2.6 FUNCTIONALITIES

The Functionalities menu provides access to additional tools and features that enhance the operation and user experience of your clip-on.

These options allow you to customize interface elements, enable useful widgets, and optimize the device for different field conditions.

Table 4.2.6 Functionalities menu

Icon	Name	Description
	Menu zoom	Determines the scaling factor applied when the menu opens. Two options are available: M1 – larger menu size M2 – smaller menu size.
	Video-Overlay line	Generates a cross in recorded videos so the user can see POA. The cross can be moved so it can be perfectly overlaid over the POA of the day scope.
	Compass	When the compass feature is active, the current heading is displayed at the top of the screen. Compass calibration: To begin compass calibration, rotate the clip-on along all three axes within 20 seconds, ensuring each axis completes at least one full 360° rotation. Once the rotation phase is complete, the device will display a pop-up prompting you to point the clip-on north. After aligning the device and confirming the north direction, the calibration process will finalize, and the system will return to the Main Menu.

Icon	Name	Description
	Burning Warning	<p>When the system detects a potential overheating risk for the sensor, a warning message will appear on the screen and the shutter will automatically close to prevent damage.</p> <p>RECOMMENDATION</p> <p><i>Avoid aiming at extremely hot objects for long durations.</i></p>
	Pitch & Roll	<p>Displays device tilt and inclination relative to the horizon. These indicators help maintain proper leveling of the clip-on, improving long-range shot consistency.</p> <p>TIP</p> <p><i>Use this feature to ensure accurate zeroing and stability when shooting from uneven terrain.</i></p>
	Hot Point	<p>Highlights the hottest object detected in the field of view with a small marker. Useful for quickly locating heat sources such as game, vehicles or human presence.</p> <p>NOTE</p> <p><i>The marker dynamically updates as the scene changes.</i></p> <p><i>For more details, see “4.2.6.1 Hot Point Tracking”.</i></p>

4.2.6.1 HOT POINT TRACKING

The **Hot Point** function automatically detects and marks the hottest object in the visible area, making it easier to identify heat sources in real time.

Steps:

1. **Press** and hold the **Control Wheel** to open the **Main Menu**.
2. **Rotate** the Control Wheel to select Functionalities -> Hot Point.
3. **Press** the Control Wheel to enable or disable the function.

When enabled, a small **hot point icon** will appear on the screen, continuously tracking the area with the highest temperature.

NOTE

The Hot Point feature is most effective in stable environments and may fluctuate in scenes with multiple strong heat sources.

4.2.7 SETTINGS

The Settings menu allows you to configure core system parameters, manage power options, and adjust device behavior to match your personal preferences and operational needs.

Table 4.2.7 Settings menu

Icon	Name	Description
	NUC	<p>Corrects temperature drift and sensor noise to maintain image quality.</p> <ul style="list-style-type: none">• Auto: The system performs NUC automatically when needed.• Semi-Auto: NUC must be triggered manually.• Manual: The NUC is initiated manually, but the shutter does not actuate and the user needs to cover the objective lens with a uniform temperature object or the objective cap before initiating. <p>For more details, see “4.2.7.1 Setting NUC”.</p>

Icon	Name	Description
	Pixel Correction	<p>Fixes defective (stuck or dead) pixels on the thermal sensor.</p> <ul style="list-style-type: none"> • Auto: The device automatically detects and corrects bad pixels after user confirmation. • Restore: Restores the default pixel map. <p>For more details, see “4.2.7.2 Setting Pixel Correction”.</p>
	Sleep Mode	<p>Sets the period of inactivity after which the clip-on enters low-power standby mode.</p> <p>Options: Off, 1 min, 3 mins, 5 mins, 10 mins.</p> <p>NOTE</p> <p><i>Pressing the Power button to wake the device from sleep.</i></p> <p>NOTE</p> <p><i>Sleep Mode can be activated only when the device is showing the Home screen.</i></p>
	Shutdown	<p>Specifies the duration of inactivity before the clip-on powers off automatically.</p> <p>Options: Off, 5 mins, 10 mins, 30 mins, 60 mins.</p> <p>Use this feature to conserve battery power during extended downtime.</p>
	Logo	<p>When enabled, the logo appears in the lower-left corner of the screen.</p>
	Record Audio	<p>Press the wheel to enable or disable audio recording.</p> <ul style="list-style-type: none"> • On: Videos are recorded with sound. • Off: Videos are recorded without sound.

Icon	Name	Description
	Status Bar	Press the Control Wheel to show or hide the status bar at the top of the screen. For more details, see “3.4.3 Status Bar Display”
	Wi-Fi	<ul style="list-style-type: none"> • Wi-Fi: Turns the wireless connection On/Off for mobile app pairing or file transfer. • Wi-Fi Band: Choose between 5 GHz (faster, shorter range) or 2.4 GHz (slower, longer range). • Wi-Fi Password: Displays the SSID and current password in an information window. <p>For more details, see “4.2.7.3 Wi-Fi Connection Setup”</p>
	USB Mode	<ul style="list-style-type: none"> • ON: The clip-on will function as a storage device for file transfer. • OFF: The USB port can be used only as a power supply.
	Language	Select your preferred interface language.
	Units	Switch between Metric and Imperial measurement systems.
	Time Settings	<ul style="list-style-type: none"> • Time Display: Enables and disables the display of the current time on the Home Screen. • Date Format: Choose the preferred date format. • Time Settings: Manually set the current date and time using the Control Wheel to adjust each value.
	Device Info	Device Information page, displaying firmware version, serial number, and other system data.

Icon	Name	Description
	Restore Default	Resets all menu parameters and user configurations to their factory defaults.
	Format	Deletes all images and videos stored in the device memory.

4.2.7.1 SETTING NUC (NON-UNIFORMITY CORRECTION)

NUC (Non-Uniformity Correction), is used to optimize the thermal image by compensating for small temperature variations across the sensor. This process ensures uniformity and helps detect even subtle temperature changes more accurately.

Procedure

1. Press and hold the **Control Wheel** to open the **Main Menu**.
2. Rotate the Control Wheel to select **Settings** → **NUC**.
3. Press the Control Wheel to access the **NUC configuration screen**.

Modes

- **Auto:**

The clip-on performs automatic flat-field calibration at regular intervals. This helps maintain consistent image quality during long observation periods.

- **Semi-Auto:**

Press the **Power button** on the Home screen to manually trigger calibration at any time. Recommended when the image appears slightly uneven or blurry.

- **Manual:**

Close the lens cap, then press the **Power button** to manually perform calibration. This is useful for precise control or when environmental conditions (e.g., rapid temperature changes) affect image stability.

TIP

Regularly performing NUC ensures the best image uniformity and helps eliminate fixed-pattern noise, especially after large temperature fluctuations.

4.2.7.2 SETTING PIXEL CORRECTION

The **Pixel Correction** function allows you to fix defective (hot, dead, or stuck) pixels on the thermal sensor to maintain a clean, high-quality image.

Procedure

1. Press and hold the **Control Wheel** to open the **Main Menu**.
2. Rotate the **Control Wheel** to select **Settings** → **Pixel Correction**.
3. Press the **Control Wheel** to open the Pixel Correction configuration screen.

Modes

- **Auto:**

The clip-on automatically detects and corrects defective pixels.

1. Select **Auto**.
2. Follow on-screen instructions to **close the lens cap**.
3. Rotate the Control Wheel to select **Confirm**, then press the Control Wheel to begin correction.

- **Restore:**

Restores the pixel correction map to its factory default state.

A confirmation message appears once the reset is complete.

TIP

Run Pixel Correction if you notice fixed bright or dark points that do not move with the image — this will recalibrate your thermal sensor for optimal image quality.

4.2.7.3 WI-FI CONNECTION SETUP

After enabling Wi-Fi, the clip-on creates its own wireless hotspot, allowing you to connect a smartphone or tablet and access live view, media files, or control features through the ATN mobile app.

Connection Procedure

1. On your smartphone, open the App Store (iOS) or Google Play (Android) and search for “**ATN Connect 6**” to download and install the application.
2. Press and hold the **Control Wheel** to open the **Main Menu**.

3. Rotate the Control Wheel to select **Settings > Wi-Fi**, then press the Control Wheel to enter.
4. Enable **Wi-Fi**. The device will broadcast its hotspot with the following credentials:
 - **Wi-Fi Name (SSID)**: You can find it on the label attached to the lens cap, or by navigating to **Main Menu → Settings → Wi-Fi Password**.
 - **Password**: The password you created during the initial setup. If you skipped that step, the default password is **12345678**. (See “3.3 Initial Setup” for details.).
5. Then launch the **ATN Connect 6**, choose the device, and follow the on-screen prompts.

NOTE

The Wi-Fi password can also be changed directly through the ATN Connect 6 mobile app in the Settings section.

Switching Wi-Fi Band

In the **Wi-Fi Settings** menu, select **Wi-Fi Band** and rotate the **Control Wheel** to choose between:

- 2.4 GHz: Longer range, more stable connection in open areas.
- 5 GHz: Faster data transfer speed and lower latency for close-range use.

5. REMOTE CONTROL X-TRAC 6

Follow the steps below to connect your **X-TRAC 6** to the **TICO 6**, allowing you to adjust settings on the fly without breaking position.

5.1 CONNECTING THE REMOTE

To connect the remote to the clip-on follow the steps below:

1. Press and hold the Menu button on the Remote control for 10 seconds.
2. The light on the device will begin to flash blue.
3. Press and hold the Up and Down button at the same time on the clip-on device.

4. When the connection is complete you will see the light will stop flashing and remain on.

When the remote is being used you will also see the image in the status bar for the Remote control will change from a yellow to a white image.

5.2 REMOTE BUTTON DESCRIPTION



Table 5.2 Remote button description

Button	Current Status	Short Press	Long Press
LEFT BUTTON	Home screen	Take a photo	Start/Stop video recording
	Quick/Main Menu interface	Select submenu(Up)	—
RIGHT BUTTON	Home screen	—	Change palette
	Quick Menu interface	Select submenu(Down)	—
	Main Menu interface		—

Button	Current Status	Short Press	Long Press
MENU BUTTON	Home screen	Enter the Quick Menu interface	Enter the Main Menu interface
	Quick Menu interface	Adjust parameters	Save and back
	Main Menu interface	Adjust parameters / Enter the submenu	
	Zeroing/ Pixel Correction interface	Switch the movement direction	

6. SYSTEM UPDATE

You can update the clip-on firmware **manually** using a USB connection.

NOTE

Always ensure the device battery level is above 30% before starting the update. If the charge is below this level, the update will be blocked and a notification will appear prompting you to recharge the device.

6.1 MANUAL FIRMWARE UPDATE

Follow these steps to update the firmware manually:

1. **Download** the latest firmware file from the official ATN website.
2. **Copy** the firmware file (.bin) to the **root directory** of the clip-on's internal storage.
3. **Disconnect** the device safely from the computer.
4. **Reboot** the device.
5. When a new firmware version is detected, a message will appear:
"Confirm to upgrade"
6. Select "**Confirm**" using the **Control Wheel**.
7. The update process will begin automatically.

NOTE

During Update: Do not power off or disconnect the device. The process may take several minutes.

If the battery charge is insufficient, the message will state:

“Low battery. Please charge before updating.”

After a successful update, the clip-on will automatically restart.

6.2 FIRMWARE UPDATE VIA MOBILE APP

When the mobile app detects a new firmware version available for your clip-on, it will display a notification on your screen.

1. **Open the app** and connect to your device via Wi-Fi.
2. When prompted, tap **Push-message** to begin the update process.
3. The firmware will download and install automatically.
4. Once the installation is complete, the clip-on will restart to finalize the update.

NOTE

Keep your phone close to the device and ensure a stable Wi-Fi connection throughout the process. Interrupting the update may cause firmware corruption or incomplete installation.

7. EXPORTING FILES

You can transfer recorded videos and captured images from the clip-on to a computer via a **USB Type-C** connection for viewing, editing or storage.

Steps

1. **Connect to a Computer**
 - Use a **Type-C data** cable to connect the clip-on to your computer.
 - The driver will install automatically during the first connection.

IMPORTANT

Connect the cable before powering on the clip-on. Avoid hot-swapping the Type-C port while the device is running.

2. **Enable USB Mode**

- When prompted on the clip-on screen, select **USB Mode** → **On** to activate file transfer.

3. **Access Files on the Computer**

- On your desktop, open **This PC (My Computer)** → locate and open the **clip-on drive** under **Removable Storage**.
- Browse to find your photo and video files.
- **Copy** the desired files to your computer.

4. **Playback**

- To view exported videos, use a compatible **media player** for optimal performance.

5. **Disconnect Safely**

- When finished, safely eject the drive and disconnect the Type-C cable.

TIP

Keep the device powered and stable during file transfer to avoid data corruption.

8. IMPORTANT SAFETY INFORMATION

This section provides essential information on the **safe handling and operation** of the device.

Please read this section carefully before use to **avoid personal injury, prevent equipment damage, and ensure reliable performance**.

Follow all safety instructions and warnings strictly during operation, transportation, and maintenance of the device.

Transportation Requirements

- Transport the device only within the **recommended temperature and humidity limits**.
- Avoid **drops, impacts, excessive vibration, or liquid exposure** during transport. Handle the device gently to prevent internal damage or loose cable connections.

- Always use the **original packaging** or equivalent protective materials. Transporting the device without proper packaging may result in damage.

Storage Requirements

- Store the device within the **allowed temperature and humidity range**.
- Keep it away from **humid, dusty, extremely hot or cold environments**, and areas with **strong electromagnetic radiation or unstable lighting**.
- Avoid squeezing, vibration, or mechanical shock during storage.
- Store the device in a **well-ventilated, dry area** free from electromagnetic interference.
- If storing for long periods, **fully recharge the battery every six months** to maintain performance and prevent damage.

Operation Requirements

- Prevent liquids from entering the device to avoid internal damage.
- Do not insert foreign objects into any openings — this may cause a short circuit or injury.
- Avoid high-dust or high-radiation environments.
- Never aim the lens at the **sun or intense light sources**, as this can permanently damage the sensor.
- Improper battery use or replacement may cause an **explosion hazard**.
- Use only the **provided charger** and ensure no flammable materials are within **2 meters** during charging.
- Ensure the power plug is securely connected to the socket.
- Do not connect multiple devices to one power adapter to avoid **overheating or fire hazards**.
- If **smoke, odor, or abnormal noise** occurs, immediately power off the device, unplug it, and contact customer service.
- Do not disassemble the device. Repairs must be performed by **qualified professionals** only. Unauthorized disassembly may cause water ingress or image quality degradation.

- **Operating temperature:** -22°F to +131°F; **humidity:** ≤95% RH.

Maintenance and Repair Requirements

- Prevent liquids from entering the device. If liquid intrusion occurs, **power off immediately**, disconnect all cables, and contact customer service.
- Use only **manufacturer-approved accessories**. Maintenance should be performed by qualified technicians.
- Disconnect power before cleaning to prevent electric shock.
- Clean the device using a **soft, dry cloth**. For stubborn dirt, lightly dampen the cloth with neutral detergent and wipe gently, then dry completely.
- **Do not use** alcohol, benzene, thinner, or abrasive cleaners — they can damage the coating and impair performance.
- Retain the **original packaging**. If service is required, pack the device securely in its factory packaging before shipping.

9. FCC COMPLIANCE STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this device does cause harmful interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the device and the receiver.
- Connect the device into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

The Effective Radiated Isotropic Power (ERIP) of this device is below 4mW (dBm). If the ERIP exceeds this limit, SAR testing is required to comply with FCC regulations.

10. PROP 65 WARNING

PROPOSITION 65 WARNING FOR CALIFORNIA CONSUMERS

For more information go to www.p65warnings.ca.gov

WARNING

This product can expose you to Nickel (Metallic), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

EXPORT DISCLAIMER

Important Export Restrictions! Commodities, products, technologies and services contained in this manual are subject to one or more of the export control laws and regulations of the U.S. Government and they fall under the control jurisdiction of either the US Department of State or the US BIS-Department of Commerce. It is unlawful and strictly prohibited to export, or attempt to export or otherwise transfer or sell any hardware or technical data or furnish any service to any foreign person, whether

abroad or in the United States, for which a license or written approval of the U.S. Government is required, without first obtaining the required license or written approval from the Department of the U.S. Government having jurisdiction. Diversion contrary to U.S. law is prohibited.

11. WARRANTY AND SUPPORT INFORMATION

5-YEAR LIMITED PRODUCT WARRANTY

Your ATN product is warranted to be free from defects in materials and workmanship under **normal use** for a period of **five (5) years** from the original date of purchase.

If a covered defect arises during the warranty period, ATN Corporation, at its discretion, will repair or replace the product. This action represents the full extent of ATN's liability, and the customer's exclusive remedy.

This warranty **does not cover**:

- Products used outside normal operating conditions or subjected to misuse, abuse, or unauthorized repair/modification.
- Products sold "as-is," special order, or discontinued items.
- Damage resulting from improper storage, handling, or operation with incompatible equipment.

This warranty applies **only to the original purchaser** and is **non-transferable**.

All implied warranties, including merchantability or fitness for a particular purpose, are expressly disclaimed.

LIMITATION OF LIABILITY

ATN shall not be liable for **any indirect, incidental, or consequential damages**, including loss of profit, data, or revenue.

ATN's total liability under this warranty is limited to the purchase price of the product.

Operation and use of the product are the sole responsibility of the customer.

PRODUCT WARRANTY REGISTRATION

To validate your warranty, please complete the Product Warranty Registration online at **www.atncorp.com** or mail the completed registration card to: **ATN Corporation 2400 NW 95 Ave, Doral, FL 33172, USA.**

OBTAINING WARRANTY SERVICE

To obtain service under warranty:

1. Contact ATN's Service Department at **(800) 910-2862** or **(650) 989-5100**, or email **service@atncorp.com** to receive a **Return Merchandise Authorization (RMA)** number.
2. Return the product (postage paid) with proof of purchase and a note describing the issue to: **ATN Corporation, 2400 NW 95 Ave, Doral, FL 33172, USA.**
3. Mark the **RMA number** clearly on the outside of the package.
4. Include your contact details (phone, email, return address).

ATN is not responsible for uninsured or improperly shipped items.

Service time: approximately 10–20 business days.

Customers are responsible for inbound shipping; ATN covers return shipping within the continental USA for valid warranty repairs.

NEED HELP?

For technical assistance, visit our support center:

www.atncorp.com/support

or contact our service team directly at

service@atncorp.com



FOR CUSTOMER SERVICE AND TECHNICAL SUPPORT,
PLEASE CONTACT

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