

N O C P I X

MICRO 2 SERIES

Multi-function Thermal Imager



WARNING! ITAR REQUIREMENTS

These products may be subject to export and foreign trade control laws of the United States and may not be exported without prior approval of the U.S. Department of State.
Learn more at irayusa.com/ITAR.

FCC ID: 2BHFB-MICRO

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION: Changes or modifications not expressly approved by iRayUSA could void the user's authority to operate the equipment.

NOTE: This equipment 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 equipment 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 equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment 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 equipment and receiver.
- Connect the equipment 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.

This device was tested for typical body-supported operations and use. Third-party belt-clips, holsters, and similar accessories used by this device should not contain any metallic components. Body accessories that do not meet these requirements may not comply with RF exposure requirements and should be avoided. Use only the supplied or an approved antenna.

WARNING: CHOKING HAZARD

Children under 3 years old can choke or suffocate on small parts of this product. This product is not a toy; keep out of reach of children.

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1. Overview

Building on the success of the original RICO MICRO series, the new MICRO 2 Series introduces comprehensive upgrades in image quality, viewing comfort, connectivity, power management, and multi-role performance. The series includes the MICRO 2 H25, equipped with a 640x512 thermal sensor, and the MICRO 2 ULTRA, which features a 1280x960 thermal sensor and an ultra-wide field of view. Both models offer a 60Hz refresh rate, ≤15mK thermal sensitivity, a large 1.03-inch, high-resolution 2560x2560 AMOLED display, Wi-Fi 6, recoil-activated video, and Bluetooth remote functionality. Each device can be used as a handheld monocular, helmet-mounted monocular, thermal clip-on, or standalone riflescope.

2. Features

- High-performance 12 μm Nocpix Gen-II sensor
- ≤15 mK thermal sensitivity
- 60Hz image refresh rate
- Large 1.03-inch 2560x2560 high-resolution AMOLED display
- 26mm eyepiece with extended eye relief
- 1,375 yard detection range
- Three operating modes: standalone/handheld, helmet, and clip-on
- Lightweight magnesium-alloy housing
- Recoil-activated video recording
- Supports up to 10x day scope magnification in clip-on mode
- Multiple power-saving settings, including Auto Power Saving, timed standby, and Flip Standby in helmet mode
- Replaceable 18650 batteries
- Dual-Link control for paired helmet-mounted devices
- Full, highlight, and outline night vision display modes
- 64 GB internal storage supports up to 1600 images and 40 hours of video
- Built-in Wi-Fi 6 module
- Mobile device App compatible
- Multiple clip-on calibration profiles, zeroing profiles, zero distances, and reticle styles and color options
- Bluetooth remote control support
- Picture in Picture (PIP) function
- Defective pixel correction
- Warm and cool image-hue options

3. Tech Specs

MICRO 2		H25	ULTRA
Sensor			
Resolution	640x512		1280x960
Pixel Size	12 μm		
Frame Rate	60hz		
Image Processing	Reality+ 2.0		
Sensor Sensitivity	≤15 mK		
Core	Nocpix Generation II 640		Nocpix Generation II 1280
Optics			
Objective Lens	25 mm f/1.0		
Magnification	1.5x		1.1x
Digital Zoom	4x		8x
Field of View	17.5° x 13.1°		34.2° x 25.9°
Detection Range	1,375 Yards		
Display Type	1.03-inch Large-format AMOLED		
Display Resolution	2560x2560		
Color Palettes	White Hot, Black Hot, Red Hot, Rainbow, Violet, Crimson, Viridian		
Reticle Types	8 (7 Static, 1 DIY)		
Reticle Colors	Black, White, Red, Green, Yellow, Blue		
Mounting System	MUM Rail, Picatinny MIL-STD-1913 Rail, PICTAIL (Optional/Not Included)		
Operating Modes	Standalone, Handheld, Helmet, Clip-on		
P.I.P	Yes		
Rangefinder	No		
Eye Relief	45 mm		
Diopter Range	-4 to +2		
Electronics			
Onboard Recording	Video, Recoil-Activated Video, and Image		
Onboard Storage	64 GB		
Wireless Connectivity	Video and Image via App.		
Data Connector	USB-C		
Power Supply	USB-C External, 18650 Batteries x2		
Max. Use Time: Standard Use / Auto Power Saving	6.5+ Hrs / 9+ Hrs (Each Battery)		4.5+ Hrs / 6+ Hrs (Each Battery)
Start Up Time	≤5 Seconds, Instant from Standby		
Physical			
Size	3.98" x 2.52" x 2.01"		4.45" x 2.52" x 2.05"
Weight	11.2 Oz		12.9 Oz
Housing Color	Cerakote TAN H-235		
Environmental/Warranty			
Warranty	5 Years		
Housing Material	Magnesium Alloy		
Ingress Protection	IP67		
Operation Temp.	-4°F~122°F		
Max. Recoil	1200 g/s² (300 Win./7mm Mag)		

4. Accessories

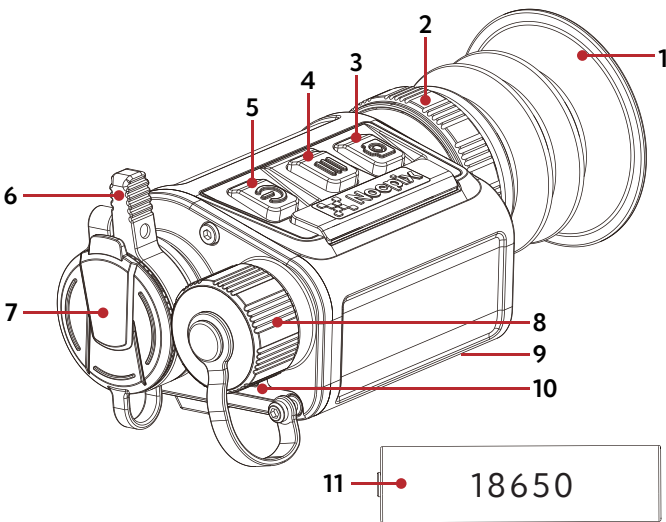
The MICRO 2 Series ships with everything you need to get out and hunt. The included items are as follows:

- 25mm Objective Lens Cap
- Removable Eyeguard
- OEM Rifle Mount (1.93 inch)
- M4×8mm Flat Head Screws (2)
- M4×6mm Socket Head Screws (2)
- 2.5mm and 3mm Hex Keys
- Objective Lens Lever
- Bluetooth Remote
- 18650 Batteries x2
- 18650 Battery Charger
- USB-C Cable
- Hard Case
- Lens Cloth
- User Manual



Various replacement accessories are available for purchase. Contact us at 800-769-7125 or irayusa.com/support.

5. Components and Controls



- 1 Eyeguard
- 2 Eyepiece/Diopter Adjustment Ring
- 3 Photo / Down Button
- 4 Menu Button
- 5 Power / Up Button
- 6 Objective Lens Focus Lever
- 7 Objective Lens / Cap
- 8 Battery Cover / Compartment
- 9 Mount Interface
- 10 USB-C Port
- 11 18650 Battery

6. Description of Control Buttons and Shortcuts

Power / Up Button 		
Current Screen / Menu or Device Status	Short Press	Long Press
Device off	— —	Power on the device
Standby	Exit standby mode	Exit standby mode
Home screen	Adjust the digital zoom level (standalone/handheld mode only)	Turn off the device / enter standby mode
Home screen (in clip-on mode)	Perform a non-uniformity correction (NUC)	Turn off the device / enter standby mode
Any menu or full-screen interface	Move through the menu options	— —
Defective pixel, reticle zeroing, and screen adjustment (helmet and clip-on modes) interfaces	Move the cursor 1 pixel in the positive direction	Move the cursor 10 pixels in the positive direction

Menu Button 		
Current Screen / Menu	Short Press	Long Press
Home screen	Enter the menu	Change the operating mode
Menu	Select a menu item / save and return to the previous menu	Save and return to the previous menu

Photo / Down Button 		
Current Screen / Menu	Short Press	Long Press
Home screen	Take a photo	Start / stop recording video
Any menu or full-screen interface	Move through the menu options	— —
Defective pixel, reticle zeroing, and screen adjustment (helmet and clip-on modes) interfaces	Move the cursor 1 pixel in the negative direction	Move the cursor 10 pixels in the negative direction

Photo + Menu Button  + 		
Current Screen / Menu	Short Press	Long Press
Home screen	Perform a shuttered non-uniformity correction (NUC)	Perform a shutterless non-uniformity correction (NUC)

7. Quick Start Guide

Step 1: Unbox and Set Up the MICRO 2

1. Compare the box contents to the Accessories list on page 4 and examine each for any shipping damage.
2. Check the lens to ensure there are no smudges or dirt present. Clean with the included lens cloth, as needed.
3. Charge the batteries before using the MICRO 2 for the first time. See **Charging the Batteries** on page 8.
4. Open the battery cover (8) and install an 18650 battery (11). See **Inserting a Battery** on page 9.
5. Install the eyeguard (1).
6. Mount the MICRO 2 to the weapon or helmet. See **Mounting the MICRO 2** on page 10.

Step 2: Turn On the MICRO 2

1. Open the lens cap (7).
2. Long press the **Power**  button for 3 seconds to power on the MICRO 2. The Nocpix logo will appear.
3. Rotate the diopter adjustment ring (2) of the eyepiece until the interface icons are clear.

WARNING: Do not point the objective lens toward intense energy sources, such as the sun. This may render the electronic components inoperative. The warranty does not cover damage caused by improper operation.

Step 3: Adjust the Device Settings

1. From the home screen, short press the **Power**  button to adjust the digital zoom level, from 1x to 4x for H25, or 1x to 8x for ULTRA. Digital zoom is disabled in helmet and clip-on modes. See **Digital Zoom** on page 30.
2. Short press the **Menu**  button to enter the menu (see **Menu Options and Descriptions** on page 31 for detailed instructions) to adjust the following settings:
 - a. Set the color palette to white hot , black hot , red hot , rainbow , violet , crimson , or viridian .
 - b. Select an image brightness level, from 1 to 10.
 - c. Select an image contrast level, from 1 to 10.
 - d. Select a screen sharpness level, from 1 to 10.
 - e. Set the non-uniformity correction (NUC) mode to automatic or manual.
 - f. Set the units of measure to meters or yards.
 - g. Turn on and calibrate the digital compass.
 - h. Set the date and time.

Step 4: Set Up and Zero the Reticle (Optional)

NOTE: The reticle is only enabled in standalone/handheld operating mode. To adjust the following settings, ensure standalone/handheld mode is selected.

1. Short press the **Menu**  button to enter the menu (see **Menu Options and Descriptions** on page 31 for detailed instructions) to adjust the reticle settings.
 - a. Select or add a zeroing profile. The MICRO 2 supports eight zeroing profiles, Profile A to H.
 - b. Set the reticle type, from 0 to 7. A custom reticle is also available for purchase in the Nocpix App.
 - c. Set the reticle brightness, from 0 to 5.
 - d. Set the reticle color to white, black, red, green, yellow, or blue.
2. Zero the reticle. See **Zeroing the MICRO 2** on page 20.

8. Charging the Batteries

The MICRO 2 Series comes with two rechargeable 18650 Li-ion batteries and a battery charger. Ensure the battery is fully charged before using the MICRO 2 for the first time.

To charge an 18650 battery:

1. Insert the battery into the battery charger according to the polarity markings shown in the battery slot.

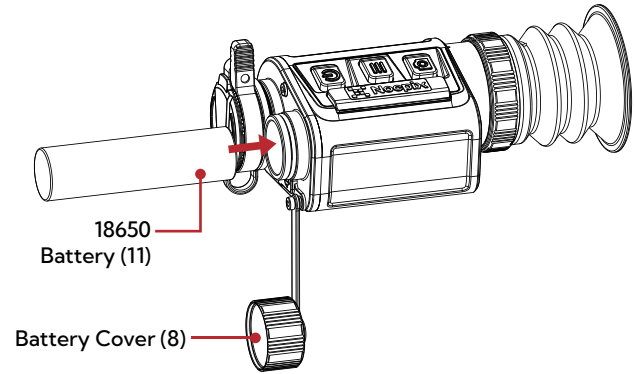
NOTE: If “EF” appears on the display, the battery is installed incorrectly, or a short circuit has been detected. Remove the battery, check its orientation and condition, and reinstall it according to the polarity markings in the battery slot.

2. While charging, the display shows the real-time battery voltage, selected charging current, and charging status for each slot.
3. When a battery is fully charged, the charger will automatically stop charging it. Remove the battery from the charger and disconnect the power when charging is complete.

WARNING: Never use the battery charger with a USB power adapter that is greater than 5V–2A.

NOTE: During use, the battery status icon turns yellow when the battery is below 20%; charge the battery promptly to avoid over-discharge and a reduction in battery capacity or service life.

9. Inserting a Battery



1. Remove the battery cover (8) by turning it counterclockwise.
2. Insert a 18650 battery (11) into the battery compartment per the polarity markings inside the compartment. The positive [+] battery terminal faces in, and the negative [-] terminal faces out.
3. Replace the battery cover.

10. Removing a Battery

1. Ensure the MICRO 2 is powered off before removing the battery.
2. Remove the battery cover (8) by turning it counterclockwise. Then, remove the battery.

11. Battery Safety Precautions

WARNING: Only use the included battery charger to charge the batteries.

WARNING: Never use the battery charger with a USB power adapter that is greater than 5V–2A. Using any other type of adapter may lead to irreversible damage to the battery, adapter, or the MICRO 2. This damage will not be covered under warranty.

WARNINGS:

- Only use 18650 batteries to power the MICRO 2.
- Do not use a battery charger, power adapter, or USB cable that has been modified or damaged.
- Do not expose batteries to high temperatures or flames, and do not immerse in water.
- Do not leave batteries in the charger for long periods after full charge is reached. Charging time should not exceed 24 hours.

- Do not leave batteries unattended while charging.
- Keep batteries out of the reach of children and pets.
- The batteries are equipped with short-circuit protection; however, any situation that may cause short-circuiting should be avoided.
- Do not disassemble, modify, hit, or drop the batteries.
- Do not connect the batteries to any external device with an electrical current that exceeds permitted levels.
- Do not connect an external device with a current supply that exceeds a 3.0 USB port.
- Remove the battery and store it in the case to protect it during transport.
- If a battery has been used, stored, or charged for a long time, it can begin to deteriorate. Stop using and remove the battery immediately if there is any battery discoloration or deformation, overheating, strange odors, or other unusual states.

To maintain optimal battery capacity and service life:

- Avoid storing a fully charged or discharged battery for long periods. Partial charging of the battery is necessary if the battery will be stored for an extended period.
- If storing for a long time, remove the battery from the MICRO 2 and store both in a cool, dry location.
- Do not charge an extremely cold battery without bringing it into a warm environment. Let the battery warm up for 45 minutes before charging.
- Charge the battery at a temperature range from 30°F to 100°F; otherwise, the service life of the battery may be reduced.
- The recommended operating temperature range is -4°F to 122°F. Avoid using the battery above the maximum or below the minimum recommended temperature range, as this may decrease the battery capacity or service life.

12. Mounting the MICRO 2

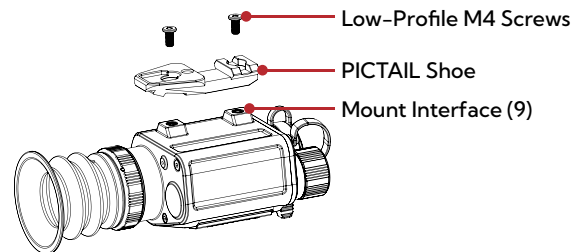
Mounting on a Helmet

The MICRO 2 Series can be mounted with MUM-14 style interface hardware (not included), or with the optional PICTAIL system.

NOTE: Torque all hardware to a maximum of 15 inch-pounds (in-lb) unless noted otherwise. **Please note, torque is inch-pounds, NOT foot-pounds.** If you do not have a torque wrench, apply until snug. Do not overtighten. No threadlocker is required for proper use; however, if threadlocker is desired, use a small amount of low-strength LOCTITE 222.

MOUNTING WITH THE OPTIONAL PICTAIL SHOE

1. Install the optional PICTAIL shoe (**IRAY-AC52**) onto the mount interface (**9**) with the narrow end of the dovetail facing toward the eyepiece.



2. Insert the low-profile M4 screws included with the PICTAIL shoe to 15 in-lb.
3. Finish mounting to your helmet with compatible dovetail-style helmet interface hardware.

Mounting on a Weapon

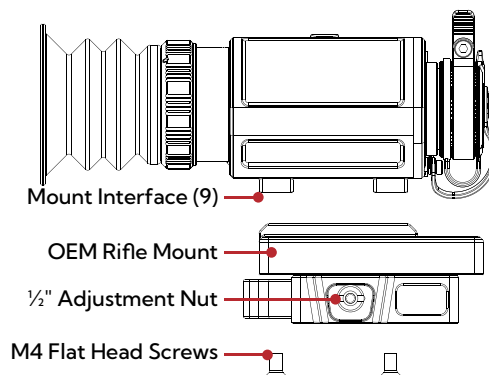
The MICRO 2 may be used with (clip-on mode) or without (standalone/handheld mode) a rifle scope.

CAUTION: Before attempting to install your MICRO 2 on a weapon, please guarantee that your firearm is unloaded and the muzzle is pointed in a safe direction.

NOTE: Torque all hardware to a maximum of 15 inch-pounds (in-lb) unless noted otherwise. **Please note, torque is inch-pounds, NOT foot-pounds.** If you do not have a torque wrench, apply until snug. Do not overtighten. No threadlocker is required for proper use; however, if threadlocker is desired, use a small amount of low-strength LOCTITE 222.

MOUNTING WITH THE OEM RIFLE MOUNT

1. Install the OEM Rifle Mount onto the MICRO 2 mount interface (**9**) as shown below using the included two M4x8mm flat head screws.



2. Torque the M4x8mm flat head screws until snug with the included hex key or to 15 in-lb with a torque wrench.
 - a. Place the MICRO 2 on your weapon and adjust the tension of the ½-inch nut on the side of the mount to 20 in-lb.

NOTE: The OEM Rifle Mount is spring-loaded and features a built-in shock-reduction system. Front-to-back movement is a normal part of its design and will not impact accuracy.

Adjusting the Throw Lever Tension

If you cannot slide the mount onto the Picatinny rail because the throw lever is in the open position but the locking plate is not, or if the mount is not tight to the rail after the throw lever is closed, you may loosen or tighten the tension of the throw lever by adjusting the ½" nut.

1. Open the throw lever. This will cause the adjustment nut to protrude on the opposite side of the mount.
2. Use the prong side of the included spanner tool to turn the adjustment nut clockwise to tighten, or counterclockwise to loosen, to achieve the correct amount of tension. You should not feel any tension on the locking lever when closing until it reaches a 45-degree angle. Do not overtighten.

MOUNTING WITH THE OPTIONAL PICTAIL SHOE AND MQD RIFLE MOUNT

The PICTAIL and MQD mount work in tandem to achieve an adjustable footprint on any standard Picatinny rail. In standalone mode, they produce over 4.5 inches of rear offset for proper eye relief. When reversed for use in clip-on mode, the MQD and PICTAIL shrink the rear offset to just 1.5 inches. In clip-on mode, the required forward rail space is just 4 rail slots in front of a day optic, making the PICTAIL and MQD the perfect combination for shorter platforms like SBRs and pistols.

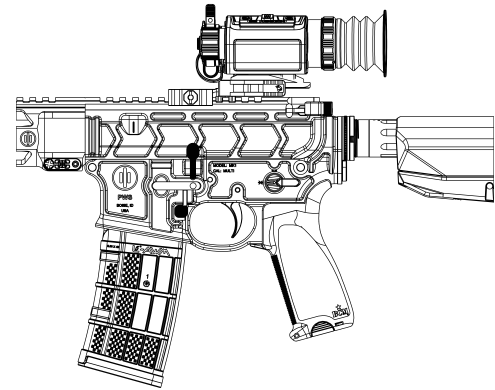
1. Install the PICTAIL shoe to the MICRO 2. See **Mounting with the Optional PICTAIL Shoe** on page 11.
2. Unlock the MQD mount by depressing the lock button on the tension lever and swinging 180° to the open position.
3. Install the MQD onto the rail of your weapon and move the lever to the locked position.
4. Finally, check the tension required to lock the tension lever. To adjust the tension:
 - a. Move the lever to the open position and push the lever toward the base. This will make the adjustment nut protrude on the opposite side of the base.
 - b. With the nut protruding, it may be turned to the right or the left to make the necessary adjustment. You will need NO tools for this step.

NOTE: The amount of tension you set will depend on your personal preference. You should not have to fight to open or close the tension lever; you should be able to move it easily with one hand.

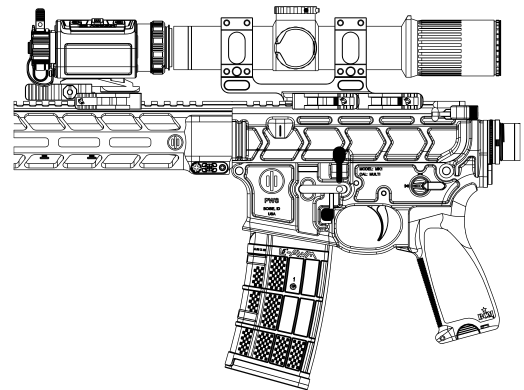
NOTE: If tension adjustments are needed between the PICTAIL Shoe and the MQD, please follow the tension adjustment instructions on the previous page.

5. Mount the MICRO 2 to the MQD:

- a. For standalone weapon optic use, mount the MICRO 2 to the MQD, oriented so that the MQD extends past the front of the objective lens as shown below.



- b. For clip-on use, mount the MICRO 2 to the MQD, oriented so that the MQD does NOT extend past the front of the objective lens as shown below.



NOTE: We recommend going no higher than 6x on any rifle scope used in clip-on mode, as image performance will become unsatisfactory.

13. Selecting an Operating Mode

The MICRO 2 Series features three operating modes: standalone/handheld, helmet, and clip-on. The MICRO 2 is in handheld mode when powered on for the first time. After the first use, the last-used operating mode is the default.

To select an operating mode:

1. From the home screen, long press the **Menu**  button to toggle through the operating mode options: standalone/handheld, helmet, or clip-on

Standalone/Handheld Mode

- In standalone/handheld mode, the MICRO 2 can be used as a standalone weapon sight, or it can be used as a handheld imager.
- Standalone/handheld mode is displayed at 1.5x (H25) or 1x (ULTRA), and the reticle is displayed at all times.
- To use as a handheld imager, set the reticle brightness to 0 to turn off the reticle. See **Zeroing Profile > Reticle Type** on page 36.

Helmet Mode

- Helmet mode allows the MICRO 2 display to be optimized for use on a helmet.
- For the MICRO 2H25, the screen size is reduced to 75% to be in unity (1.1x). The X/Y position of the display image may be adjusted. See **Menu > Screen Adjustment** on page 50.
- Helmet mode has its own abbreviated menu. See **Helmet Mode Menu** on page 32.

Clip-on Mode

- In clip-on mode, the MICRO 2 can be mounted in front of a rifle scope.
- For the MICRO 2 H25, the screen size is reduced to 68% to be in unity (1x); for the MICRO 2 ULTRA, the screen size is reduced to 90% to be in unity (1x). The X/Y position of the screen may be adjusted so that the center of the screen matches up with the day optic reticle. See **Zeroing the MICRO 2** on page 20.
- We recommend going no higher than 10x on any rifle scope used in clip-on mode as image performance will become unsatisfactory.
- Clip-on mode has its own abbreviated menu. See **Clip-on Mode Menu** on page 32.

14. Operating Instructions

WARNING!

Don't point the objective lens towards any intense energy sources, such as laser radiation or the sun. This may render the electronic components inoperative. The warranty does not cover damage caused by improper operation.

Shortcut Button Combinations

The MICRO 2 is operated by three control buttons. The control buttons can be used to perform shortcut operations from the home screen, as well as in the menu and full-screen interfaces. See **Description of Control Buttons and Shortcuts** on page 6 for shortcut button details.

Powering On

1. Open the lens cap (7).
2. Long press the **Power**  button for 3 seconds to power on the MICRO 2. The Nocpix logo will appear.
3. To determine the current battery charge, check the battery status  icon in the status bar.

Powering Off and Entering Standby

To manually shut down the MICRO 2:

1. Long press the **Power**  button from the home screen.
2. The shutdown screen will open, showing a 3-second countdown.
3. Continue holding the **Power**  button until the 3-second countdown completes.
4. "Data saving..." will appear on the screen and the MICRO 2 will shut down automatically.

NOTES:

- Releasing the Power button before the countdown completes will cancel the shutdown process, and the imager will enter standby mode. Short press or long press the Power button to exit standby mode.
- The device will shut down automatically after 4 hours of inactivity.

WARNING: If using an external power supply, do not remove the power supply when saving data, as the data may not be saved.

STANDBY MODE

Manually Enter Standby Mode

The user may enter standby mode manually at any time.

1. Long press the **Power** button from the home screen. The shutdown screen will open, showing a 3-second countdown.
2. Release the **Power** button before the 3-second countdown completes to enter standby mode.
3. Short press or long press the **Power** button to exit standby mode.

NOTE: The device will shut down automatically after 30 minutes in standby.

Automatically Enter Standby Mode

The rifle scope may be set to enter standby mode automatically.

1. Turn on automatic standby and set the timer to 5, 10, 20, 30, or 60 minutes. See **Settings > Standby** on page 49.
2. When turned on:
 - a. After the set number of minutes of inactivity, the MICRO 2 Series will enter standby mode automatically when it is tilted up or down at an angle of more than 70° or left or right at an angle of more than 30°.
 - b. The device will not enter standby mode while it is in a level (horizontal) firing position.
 - c. Any device operation restarts the standby timer.
3. Short press the **Power** button to exit standby.

Adjusting the Focus

ADJUSTING THE DIOPTER/EYEPIECE

1. Rotate the eyepiece diopter adjustment ring (2) at the rear of the rifle scope right or left until the user interface is clear.
2. Look closely to ensure all icons appear sharp and in focus.

NOTES:

- After the initial adjustment, there is no need to rotate the eyepiece adjustment ring (2) for long distances or other conditions.
- If necessary during standard use, the objective lens focus lever (6) may be rotated to adjust fine focus on the target object being observed.

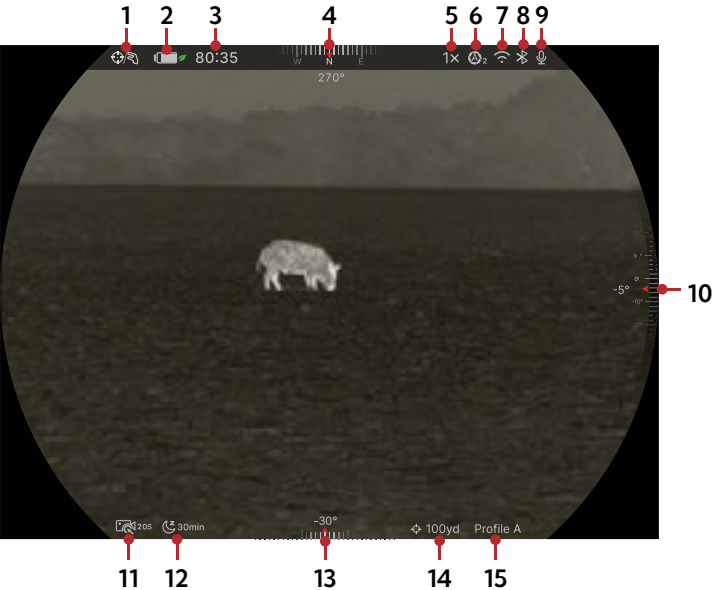
FOCUSING THE OBJECTIVE LENS

1. Rotate the objective lens focus lever (6) left or right to adjust fine focus.

NOTE: Re-adjusting the focus will be necessary if the distance to the target changes.

Status Bar Overview

The status bars at the top and sides of the screen show information on the operating status of the MICRO 2.



- 1 **Operating Mode:** Shows the set mode: standalone/handheld, helmet, or clip-on **Clip-on**.
- 2 **Battery:** Shows the battery status. See **Battery Status** on the next page for details.
- 3 **Clock:** Shows the current time in 24-hour format.
- 4 **Digital Compass:** Displays when turned on in the menu.
- 5 **Digital Zoom (Standalone/Handheld Mode Only):** Shows the selected digital zoom level: 1x, 2x, or 4x for MICRO 2 H25; or 1x, 2x, 4x, 8x for the MICRO 2 ULTRA.
- 6 **Non-Uniformity Correction (NUC) Mode:** Shows the icon for the selected non-uniformity correction (NUC) mode, automatic (A) or manual (M). A 3-second countdown timer will appear when 5 seconds remain until an automatic NUC.
- 7 **Wi-Fi:** The Wi-Fi icon appears when turned on.
- 8 **Bluetooth:** The Bluetooth icon appears when turned on.
- 9 **Microphone:** The microphone icon appears when turned on.
- 10 **Pitch Angle:** Shows the upward or downward pitch angle when the compass is turned on.
- 11 **Recoil-Activated Video:** Shows the recoil-activated video icon and 20-second recording timer when turned on.

- 12 **Standby:** Shows the automatic standby ☾ icon and status: OFF, 5, 10, 20, 30, or 60min.
- 13 **Tilt Angle:** Shows the left or right tilt angle when the compass is turned on.
- 14 **Zero Distance:** Shows the selected zero distance.
- 15 **Zeroing Profile:** Shows the selected zeroing profile.

BATTERY STATUS

The battery icon indicates the current battery status.

ICON	BATTERY LEVEL / STATUS
	80–100%
	60–79%
	40–59%
	20–39%
	6–19%
	<5% ; charge immediately
	Battery charging
(white)	Auto-power-saving mode enabled
	Auto-power-saving mode active

Navigating the Menu



- From the home screen, short press the **Menu** button to enter the menu.
- To navigate through the menu:
 - Short press the **Power** button to move up.
 - Short press the **Photo** button to move down.
 - In the menu, a gold background highlight indicates the cursor position in the menu.
 - In the submenus, a gold arrow indicates the cursor position. Selected menu items change from white to gold.
- Short press the **Menu** button to select a menu item.
- Short press or long press the **Menu** button to save any changes and return to the previous menu or screen.

15. Zeroing the MICRO 2

The MICRO 2 Series features a freeze zeroing method. To zero the MICRO 2:

1. Set a suitable target at the desired zero distance.
2. Confirm that the rifle is empty, safe, and pointed in a safe direction, with no ammunition near the weapon.
3. Adjust the image and device settings following the steps in the **Quick Start Guide** on page 7, if you have not done so already.
4. Ensure a stable platform and natural shooting position are established behind the rifle.
5. Load ammunition, aim, and take one good shot at the target.
6. Make the rifle safe and observe the location of impact on the target.
7. If the point of impact does not match the point of aim (the center of the reticle), adjust the X/Y position of the reticle following the instructions for standalone/handheld mode (below) or clip-on mode (on page 22).

In standalone/handheld mode:

1. In the menu, select **Zeroing Profile** .
2. Select one of the eight available zeroing profiles (A to H).
3. In the submenu for the selected profile, select **Reticle Zeroing** .
4. The reticle zeroing interface has the following features:
 - 1 : Edit the zero distance.
 - 2 : Change the horizontal point of impact (cm or in) at the set zoom level and zero distance.
 - 3 : Change the vertical point of impact (cm or in) at the set zoom level and zero distance.
 - 4 : Change the zoom level.
 - 5 : Freeze the image.
 - 6 **Reticle**: Shows the new reticle position.



5. Set the zero distance to match the distance to the target:

- a. Short press the **Menu**  button to select **zero distance**  and begin editing it. Gold arrows appear above and below the selected digit.
- b. Short press the **Up/Down** buttons to set the value of the selected digit from 0 to 9.
- c. Short press the **Menu**  button to switch between the digits; the gold arrows move to show the selection.
- d. Long press the **Menu**  button to stop editing and deselect the zero distance.

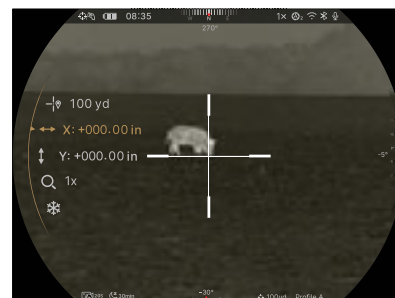


6. Center the reticle on the aiming point, and freeze the image view:

- a. Short press the **Up/Down** buttons to move the gold arrow cursor to the freeze  icon.
- b. Short press the **Menu**  button to freeze the image. Press a second time to unfreeze.



7. Select the zoom **Q** icon to adjust the zoom level, as needed.
8. Adjust the X/Y position of the reticle until it matches the point of impact.
 - a. Short press the **Up/Down** buttons to move to **X** or **Y**.
 - b. Short press the **Menu**  button to select the desired axis. The selected axis turns from white to gold.
 - c. **X** (horizontal) is the windage and **Y** (vertical) is the elevation.
 - d. Use the **Power**  button to move in the positive direction: X= Right and Y= Up.
 - e. Use the **Photo**  button to move in the negative



direction: X= Left and Y= Down.

- Short press to move in the corresponding direction by 1 pixel; long press to move 10 pixels.
- The cm/in parameters for the X-axis and Y-axis represent the horizontal or vertical point of impact change at the current zoom level and zero distance:

MODEL	DISTANCE (YARDS)	ONE CLICK (INCHES)
H25	50	0.43
	100	0.86
	200	1.73
ULTRA	50	0.86
	100	1.73
	200	3.46

- The distance of your X/Y adjustments will update automatically when the zero distance is changed, for example, from 100 to 200 yards.
- Short press the **Menu** button to save the position for the selected axis and deselect it; the axis will change from gold to white.
- Adjust the reticle position along the second axis if needed.
- Long press the **Menu** button to save the reticle position for both axes and exit.
- Take a confirmation shot—the point of impact should now match the point of aim. If not, adjust the X/Y position of the reticle again.

In clip-on mode:

- In the menu, select Screen Adjustment.
- Choose one of the three available profiles, A, B, or C, to enter the screen-adjustment interface.



- The clip-on mode screen-adjustment (zeroing) interface has the following features:

- Customize the zero distance.
- ↔ X: Move the screen along the X-Axis.
- ↑ Y: Move the screen along the Y-Axis.
- ❄: Freeze the image.
- Ref.: Enable and customize the reference reticle (visual reference for the day optic reticle in video recording).
- ✓: Save and return to the menu.
- ✕: Exit without saving.



- To edit the zero distance:

- Short press the **Menu** button to select **zero distance** and begin editing it. Gold arrows appear above and below the selected digit.

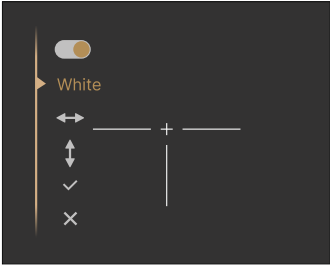
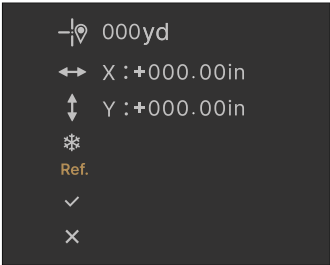


- Short press the **Up/Down** buttons to set the value of the selected digit from 0 to 9.
 - Short press the **Menu** button to switch between the three digits. The gold arrows move to indicate the selection.
 - Long press the **Menu** button to save the zero distance and stop editing.
- Center the reticle on the aiming point, and freeze the image view:
 - Short press the **Up/Down** buttons to move the gold arrow cursor to the freeze icon.
 - Short press the **Menu** button to freeze the image. Press a second time to unfreeze.
 - Adjust the X/Y position of the display image:
 - Short press the **Up/Down** buttons to move to X or Y.
 - Short press the **Menu** button to select the desired axis. The selected axis turns from white to gold.
 - X (horizontal) is the windage and Y (vertical) is the elevation.

- d. Use the **Power** button to move in the positive direction: X= Right and Y= Up.
- e. Use the **Photo** button to move in the negative direction: X= Left and Y= Down.
- f. Short press to move the reticle in the corresponding direction by 1 pixel; long press to move 10 pixels.
- g. The cm/in parameters for the X-axis and Y-axis represent the horizontal or vertical movement of the display image:

MODEL	DISTANCE (YARDS)	ONE CLICK (INCHES)
H25	50	0.63
	100	1.26
	200	2.53
ULTRA	50	0.95
	100	1.91
	200	3.81

- 7. Short press the **Menu** button to save the position for the selected axis and deselect it. When deselected, the axis will stop flashing.
- 8. Repeat steps 9–10 to adjust the display image position along the second axis if needed.
- 9. To turn the reference reticle on/off, or customize it:
 - a. Short press the **Up/Down** buttons to move the cursor to **Ref.**
 - b. Short press the **Menu** button to select it and enter the ref. reticle submenu.
 - c. Use the **Up/Down** buttons to move through the ref. reticle options, and press the **Menu** button to select the desired option to edit it:
 - i. **Ref. Reticle toggle:** Turn the ref. reticle on or off.
NOTE: The ref. reticle can only be seen in video recording.
 - ii. **Color:** Set the color to white, black, red, green, yellow, or blue.
 - iii. **X or Y Axis:** Adjust the position of the ref. reticle.
 - iv. **✓:** Confirm changes.
 - v. **✕:** Exit the ref. reticle menu without saving.



- 10. Long press the **Menu** button to save all changes, including the new position of the display image. A confirmation popup will be displayed on the screen.
- 11. Short press the **Up/Down** buttons to move between the options: **Confirm** and **Cancel**.
- 12. Short press the **Menu** button to select **Cancel** to return to the previous menu without saving, or **Confirm** to save all changes and return to previous.
- 13. Take a confirmation shot—the point of impact should now match the point of aim. If not, adjust the X/Y position of the reticle again.

16. Non-uniformity Correction

A non-uniformity correction (NUC) allows a thermal imager’s sensors to correct its pixels and eliminate any image defects caused by pixel drift. A NUC will be performed automatically each time the MICRO 2 is powered on.

The MICRO 2 Series has two NUC modes, automatic (A) and manual (M). In both automatic and manual modes, the user may choose to manually perform a NUC (shuttered or shutterless) at any time. See **Settings > Calibration** on page 42.

Automatic Mode

In automatic mode (A), the MICRO 2 will perform a NUC automatically according to the internal software algorithm. There is no need to close the objective lens cap (7) as the MICRO 2’s internal shutter covers the sensor. A countdown timer will appear in the status bar when 3 seconds remain until an automatic NUC. Short press the Power button to cancel the current NUC.

Manual Mode

In manual mode, the user independently determines the need to perform a shuttered or shutterless NUC based on the quality of the observed image.

PERFORMING A SHUTTERED NUC

- A shuttered NUC may be performed at any time while in manual or automatic mode. It is not necessary to close the objective lens cap (7) during a shuttered NUC, as the internal shutter covers the sensor.
- 1. From the home screen, short press the **Photo** button and **Menu** buttons at the same time.

- The internal shutter will cover the sensor and a shuttered non-uniformity correction (NUC) will be performed instantly.

NOTE: In clip-on mode, short pressing the **Power**  button also performs a shuttered correction.

PERFORMING A SHUTTERLESS NUC

A shutterless NUC may be performed at any time while in manual or automatic mode. A shutterless NUC uses less power than a shuttered NUC because it does not use the imager shutter to cover the sensor; instead, the user must close the lens cap (7).

- Close the objective lens cap.
- From the home screen, long press the **Photo**  and **Menu**  buttons at the same time.
- A prompt to close the lens cap appears onscreen. The shutterless NUC starts after about 2 seconds.

NOTE: If the lens is not properly covered, a temporary "image burn" will remain in the image until the next non-uniformity correction. This "image burn" is temporary and is not a defect or sign of permanent damage.

17. Photography and Video Recording

The MICRO 2 is equipped with video recording and image capture. All images and videos are automatically saved on the MICRO 2's internal 64 GB memory storage.

NOTE: Photo and video files are named with the time and date; therefore, it is recommended to set the date and time before using the photo and video functions. See **Settings > Date and Time** on page 44. Alternatively, the date and time may be synchronized in the Nocpix App.

Photography

To take a photo:

- From the home screen, short press the **Photo**  button.
- The camera icon  appears briefly in the upper-right corner of the screen to indicate a photo was taken.



Video Recording

To record video:

- Turn on the microphone in the menu. See **Settings > Audio** on page 42.
- From the home screen, long press the **Photo**  button to begin a video recording.
- The recording icon  and timer, in MM:SS (minute: second) format, will appear in the upper-right corner of the screen.
- When recording, short press the **Photo**  button to take a photo.
- Long press the **Photo**  button to stop and save the video recording.



Recoil-Activated Video Recording

When recoil-activated video (RAV) is turned on, the RAV  icon and 20-second timer will appear in the lower-left corner of the screen. The MICRO 2 will automatically record video when a recoil is detected: 20 seconds before the shot and 20 seconds after the shot. See **Settings > Recoil Activated Video** on page 40 for details.

NOTES:

- When multiple shots are taken within the same 30-second period, only one video will be recorded.
- Standard video recording is available when RAV is turned on; however, an RAV recording will not be triggered until the standard video recording ends and the RAV timer starts.

Video and Photography Notes

- You may enter and use the menu as normal during video recording.
- Recorded photos and videos are saved to the internal storage:
 - Files are organized in folders named by date in YYYYMMDD (year, month, and day) format.
 - Photos are saved as PIC_hhmmss.png.
 - Videos are saved as VID_hhmmss.mp4.
 - RAV videos are saved as RAV_hhmmss.mp4.
 - hhmmss represents hour, minute, and second.

- The maximum duration of a recorded video file is 30 minutes. After this time, video recording will begin a new file automatically.
- The number of recorded files is limited only by the capacity of the internal memory.
- Regularly check the available memory storage space and move video footage and images to other storage media to free up space on the memory card.

18. Accessing Internal Memory

When the MICRO 2 Series is turned on and connected to a computer via the included data cable, it is recognized by the computer as a flash memory (USB) drive. This allows the user to access the saved multimedia files and copy or delete any desired files.

To access the internal memory:

1. Turn on the MICRO 2.
2. Plug the USB-C end of the data cable into the USB-C port (10) on the MICRO 2.
3. Plug the USB end of the cable into a computer or laptop.
4. The MICRO 2 will connect automatically to the computer.

NOTE: Photography and video recording are disabled when the MICRO 2 is connected to a computer.

To Access Files On Windows

1. Double-click the **This PC icon** on your computer's desktop.
2. Double-click the unnamed USB drive in the Devices and Drives list to open it.
3. The USB drive contains folders named by date, YYYYMMDD (year, month, and day).
4. Select the desired files or folders to copy or delete.
5. When done, disconnect the data cable.

To Access Files On Mac

1. Double-click the untitled USB drive on your computer's desktop.
2. The USB drive contains folders named by date, YYYYMMDD (year, month, and day).
3. Select the desired files or folders to copy or delete.
4. Right-click the drive on your desktop to eject it. Then, disconnect the data cable.

19. Using the Nocpix App

The MICRO 2 Series can be operated using the Nocpix App when connected to a tablet or smartphone or via Wi-Fi.



1. Download the App for free and install it on your device:
 - a. Scan a QR code to download it from the App Store or Google Play; **OR**
 - b. Download the App from any app store.
2. Connect the MICRO 2 Series to Wi-Fi:
 - a. Turn on the Wi-Fi. See **Menu > Wi-Fi** on page 52 for instructions.
 - b. On the mobile device, go to **Settings > Wi-Fi**.
 - c. Select the MICRO 2 Series from the list of Wi-Fi networks. It will appear in the list as "MICRO 2_XXXX" or MICRO 2 ULTRA_XXXX, where XXXX is the device serial number.
 - d. Enter the Wi-Fi password and tap the **Join button**. The default password is 12345678.
 - e. Open the App and tap the **Connect to Device button**. Then, tap **Connect Phone WLAN**.
3. Operate the MICRO 2 Series via the App:
 - a. Take real-time photos and videos, with or without audio.
 - b. View, share, download, and delete photos and videos taken via the App, which are saved to the mobile device.
 - c. Change the Wi-Fi password and SSID.
 - d. Synchronize the date and time from the mobile device.
 - e. Update the MICRO 2 Series firmware.

NOTE: When a factory reset is performed, the Wi-Fi SSID and password are reset to the defaults, MICRO 2_XXXX or MICRO 2 ULTRA_XXXX and 12345678. See **Settings > Factory Reset** on page 45.

20. Digital Zoom

The digital zoom function allows the user to increase the base magnification. The H25 supports digital zoom levels of 1x, 2x, and 4x. The ULTRA supports digital zoom levels of 1x, 2x, 4x, and 8x.

1. From the home screen, short press the **Power**  button to toggle through the digital zoom levels. The selected digital zoom level appears in the status bar.

NOTE: Digital zoom is disabled in helmet and clip-on modes.

21. Bluetooth Remote Control

The MICRO 2 comes with a wireless remote control, allowing access to the control buttons from the rifle stock or a tripod. Consult the instruction sheet in the remote control pouch for setup and use instructions.



Button Cell Battery Warnings

 WARNING	
• INGESTION HAZARD: This product contains a button or coin battery. • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH OF CHILDREN. • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Compatible battery type: 18650
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Ensure the battery is installed correctly, according to the polarity (+ and -).
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

- Do not force discharge, recharge, disassemble, heat above the manufacturer's specified temperature rating, or incinerate. Doing so may result in injury due to venting, leakage, or explosion, resulting in chemical burns.

22. Menu Options & Descriptions

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Power**  (Up) and **Photo**  (Down) buttons to move through the menu items. Menu icons are back-highlighted in gold to indicate the current cursor location.
3. Short press the **Menu**  button to select a menu item.
4. Short press the **Up/Down** buttons to move through the menu options.
5. Short press the **Menu**  button to confirm changes and return to previous.

Menu option descriptions and navigation instructions are listed in order on the following pages. Please note that helmet and clip-on modes each have a unique menu structure which is an abbreviated version of the standalone/handheld menu; see the list of available menu items on the next page.

Standalone/Handheld Mode Menu

- **Main Menu:** Polarity, NV Mode, Auto Power Saving, Zeroing Profile, Settings, Wi-Fi, Screen Brightness, PIP, Image Settings.
- **Zeroing Profile Menu:** Zeroing Profile, Reticle Type, Reticle Brightness, Reticle Color, Reticle Zeroing, Delete Profile.
- **Settings Menu:** Bluetooth, Recoil Activated Video, Audio, Calibration, Status Auto Hiding, Unit, Date and Time, Formatting, Info, Factory Reset, Compass Calibration, Pixel Defect Correction, Compass, Standby.
- **Image Settings Menu:** Image Brightness, Image Contrast, Image Sharpness, Image Hue.



Helmet Mode Menu

- **Main Menu:** Polarity, Image Settings, Screen Brightness, NV Mode, Auto Power Saving, Screen Adjustment, Settings.
- **Settings Menu:** Bluetooth, Calibration, Flip Standby, Status Auto Hiding, Compass.
- **Bluetooth Menu:** On, Off, Dual-Link.
- **Image Settings Menu:** Image Brightness, Image Contrast, Image Sharpness, Image Hue.



NOTE: MICRO 2 ULTRA does not have a Screen Adjustment menu option in helmet mode.

Clip-On Mode Menu

- **Main Menu:** Polarity, Image Settings, Screen Brightness, NV Mode, Auto Power Saving, Screen Adjustment, Settings.
- **Settings Menu:** Bluetooth, Recoil Activated Video, Calibration, Status Auto Hiding, Compass.
- **Image Settings Menu:** Image Brightness, Image Contrast, Image Sharpness, Image Hue.



Polarity ☺

Set the color palette

1. Short press the **Menu** button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Polarity** ☺.
3. Short press the **Menu** button to enter the submenu.



4. Short press the **Up/Down** buttons to move through the color palettes: white hot, black hot, red hot, rainbow, violet, crimson, and viridian.
5. Short press **Menu** to save the selection and return.



NV Mode NV

Set the NV image-display mode

1. Short press the **Menu** button to enter the menu.
2. Short press the **Up/Down** buttons to move to **NV Mode** NV.
3. Short press the **Menu** button to enter the submenu.
4. Short press the **Up/Down** buttons to move through the mode options:
 - a. **Full:** Displays the complete thermal image with all image-adjustment options available.
 - b. **Highlight:** Emphasizes targets without displaying the image background.
 - c. **Outline:** Displays the outlines of any targets in the scene.
5. Short press the **Menu** button to save the selection and return.



NOTE: Polarity and image hue are unavailable in highlight and outline modes.

Auto Power Saving 🍀

Turn battery-power saving mode on or off to reduce power consumption when the device is inactive

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Power Saving** .
3. Short press the **Menu**  button to select it.
4. Short press the **Up/Down** buttons to turn Power Saving mode on or off. A white leaf  icon appears in the status bar indicating that the feature has been enabled.
5. Short press the **Menu**  button to save the selection and return.



When auto power saving is enabled:

- After 8 seconds of inactivity on the home screen, the device enters power-saving mode automatically. The leaf icon turns green  to indicate that power-saving mode is active. Power saving shuts down all non-essential functions to save battery life.
- Wi-Fi, Bluetooth, microphone, and recoil-activated video are automatically turned off.
- Short press the **Menu** or **Photo**  button to temporarily disable power saving mode. The green leaf icon will flash and then turn white. You may then resume using the MICRO 2 as normal. After 8 seconds of inactivity, the device will again enter power-saving mode.

NOTES:

- When auto power saving is turned on:
 - Video recording is unavailable until the device wakes.
 - If a video recording is in progress, it will be stopped and saved.
 - Turning on Wi-Fi, Bluetooth, microphone, or recoil-activated video will automatically turn off Auto Power Saving mode.

Zeroing Profile (Standalone/Handheld Only)

Select or add a zeroing profile, adjust the reticle and zeroing settings in standalone/handheld mode

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Zeroing Profile** .
3. Short press the **Menu**  button to select it and enter the submenu.
4. In the zeroing profile submenu, **Profile A** is selected by default.
5. Short press the **Up/Down** buttons to move through the available options, and short press the **Menu**  button to select a zeroing profile; **OR**
6. Add a new zeroing profile:



- a. Short press the **Up/Down** buttons to move to the **add + icon**.
 - b. Short press the **Menu**  button to add a new profile. The MICRO 2 supports up to eight profiles (A to H).
 - c. Short press the **Menu**  button a second time to select the new profile.
7. When the zeroing profile is selected, the following options can be adjusted:
 - a. Customize the zero distance and reticle position.
 - b. Change the reticle type, color, and brightness.
 - c. Delete the selected zeroing profile.

NOTES:

- The zeroing profile names and parameters can be edited in the Noxpix App.
- The selected zeroing profile appears in the bottom status bar.

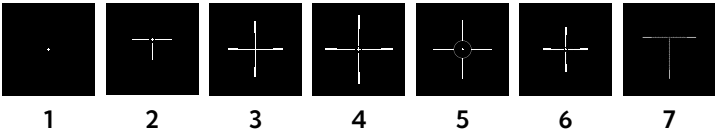
ZEROING PROFILE > RETICLE TYPE

Change the reticle type

1. In the submenu for the selected zeroing profile, short press the **Up/Down buttons** to move to **Reticle Type** .
2. Short press the **Up/Down buttons** to move through the reticle types, 1 to 7 (see **Reticle Types** below). The reticle changes in real time as the cursor moves through the reticle types. A custom reticle is available for purchase in the Nocpix App.
3. Short press the **Menu**  button to save the selection and return.



Reticle Type



ZEROING PROFILE > RETICLE BRIGHTNESS

Adjust the reticle brightness

1. In the submenu for the selected zeroing profile, short press the **Up/Down buttons** to move to **Reticle Brightness** .
2. Short press the **Up/Down buttons** to move through the brightness levels, from 0 to 5. The brightness changes in real-time.
3. Short press the **Menu**  button to save the selection and return.



NOTE: Setting the brightness to 0 hides the reticle for handheld use.

ZEROING PROFILE > RETICLE COLOR

Change the reticle color

1. In the submenu for the selected zeroing profile, short press the **Up/Down buttons** to move to **Reticle Color** .
2. Short press the **Up/Down buttons** to move through the color options: black, white, red, green, yellow, and blue. The color changes in real-time.
3. Short press the **Menu**  button to save the selection and return.



ZEROING PROFILE > RETICLE ZEROING

Customize the zero distance and adjust the reticle position for the selected zeroing profile to match the point of impact

NOTE: For zeroing instructions for standalone/handheld and clip-on mode, go to page 20.



ZEROING PROFILE > DELETE PROFILE

Delete the selected zeroing profile

1. In the submenu for the selected zeroing profile, short press the **Up/Down buttons** to move to **Delete Profile** .
2. Short press the **Menu**  button to select it. A confirmation popup will be displayed.
3. Short press the **Up/Down buttons** to move between the options: Yes and No.
4. Short press the **Menu**  button to select **Yes** to delete the profile or **No** to cancel.



NOTE: The selected zeroing profile cannot be deleted if it is the only remaining profile.

Settings

Adjust the settings options

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Settings** .
3. Short press the **Menu**  button to select it and enter the submenu.



SETTINGS > BLUETOOTH (STANDALONE/HANDHELD & CLIP-ON MODES ONLY)

Turn on Bluetooth to connect to the optional Bluetooth remote (not included)

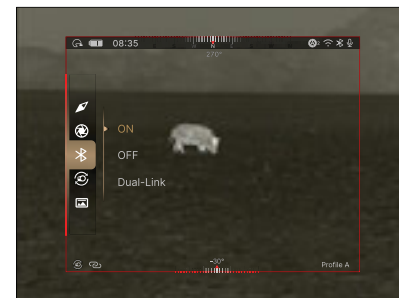
1. In the settings submenu, short press the **Up/Down** buttons to move to **Bluetooth** .
2. Short press the **Menu**  button to select it.
3. Short press the **Up/Down** buttons to turn Bluetooth on or off.
4. When turned on, the Bluetooth  icon appears in the status bar.
5. Short press the **Menu**  button to save the selection and return.



NOTE: When the optional Bluetooth Remote Controller is connected, the Bluetooth connection  icon is displayed in the status bar.

SETTINGS > BLUETOOTH > DUAL LINK (HELMET MODE ONLY)

Use the Dual-Link feature to connect two MICRO 2 devices for binocular helmet use, allowing both devices to be controlled and adjusted at the same time. Bluetooth and Dual-Link cannot be used at the same time; when one is turned on, the other will automatically turn off.



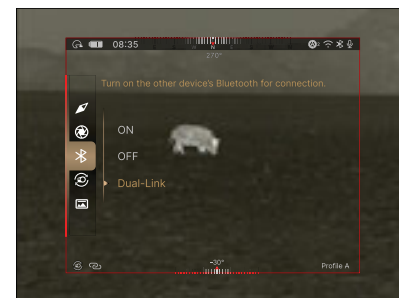
1. Short press the **Menu**  button to select **Bluetooth** .
2. Short press the **Up/Down** buttons to move through the options:
 - a. **ON:** Turn on Bluetooth.
 - b. **OFF:** Turn off Bluetooth.
 - c. **Dual-Link:** Connect two devices for binocular helmet use.

To connect two MICRO 2 devices via Dual-Link:

1. Set both devices to helmet mode.

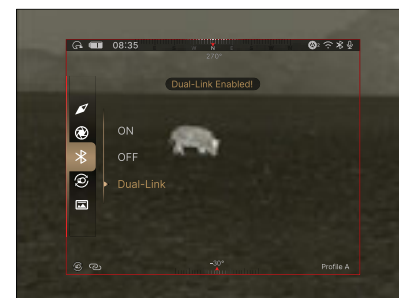
On the primary device:

2. In the settings submenu, short press the **Up/Down** buttons to move to **Bluetooth** .
3. Short press the **Menu**  button to select it.
4. Short press the **Menu**  button a second time to turn on Bluetooth. The Bluetooth  icon will appear in the status bar.



On the secondary device:

5. In the settings submenu, select **Bluetooth**, then select **Dual-Link**.
6. The two devices will connect automatically. The message "Dual-Link Enabled!" will appear for 3 seconds on both devices, and the Dual-Link  icon will appear in the status bar.



- When connected, the primary device automatically synchronizes its helmet-mode settings to the secondary device, including: screen and image brightness, image contrast, image sharpness, color palette, NV mode, image hue, Auto Power Saving, Flip Standby, calibration mode, status auto hiding setting, compass, digital zoom level, and Wi-Fi settings.

NOTE: Operations performed using the Bluetooth remote control or Nocpix App are applied to both connected devices.

Disconnecting Dual-Link:

Dual-Link automatically disconnects when:

- Either device turns Bluetooth off.
- Either device changes to another operating mode.

When disconnected, both devices display "Dual-Link Disabled!" for 3 seconds.

NOTES:

- Settings changed while Dual-Link is active remain in effect after the devices are disconnected.
- If both devices remain in helmet mode, with one set to Bluetooth ON and the other set to Dual-Link, they reconnect automatically after restarting.

SETTINGS > RECOIL ACTIVATED VIDEO (STANDALONE/HANDHELD & CLIP-ON MODES ONLY)

Turn recoil-activated video on or off

When recoil-activated video (RAV) is turned on, the rifle scope automatically records video when a recoil is detected.

- In the settings submenu, short press the **Up/Down buttons** to move to **Recoil Activated Video** .
- Short press the **Menu**  button to select it.
- Short press the **Up/Down buttons** to turn RAV on or off.



- When turned on, the RAV  icon and 20-second timer appear on the lower-left corner of the screen.
- Short press the **Menu**  button to save the selection and return.

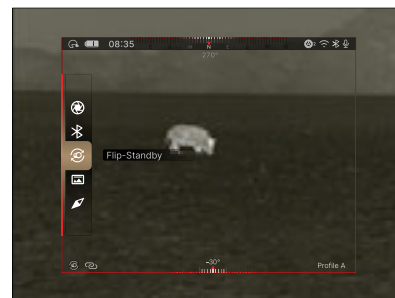
NOTES:

- When multiple shots are taken within the same 30-second period, only one video will be recorded.
- Standard video recording is available when RAV is turned on; however, an RAV recording will not be triggered until the standard video recording ends and the RAV timer starts.

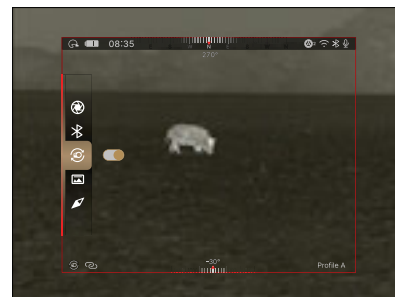
SETTINGS > FLIP STANDBY (HELMET MODE ONLY)

Turn flip mode on or off

In helmet mode, Flip Standby automatically places the device into standby mode when it is flipped up on the helmet mount, and wakes the device when it is returned to the viewing position.



- In the settings submenu, short press the **Up/Down buttons** to move to **Flip Standby** .
- Short press the **Menu**  button to select it.
- Short press the **Up/Down buttons** to turn the flip standby function on or off.
- When turned on, the Flip Standby  icon appears in the bottom status bar.
- Short press the **Menu**  button to save the selection and return.



When Flip Standby is turned on:

- Flip the device up to automatically enter standby mode.
- Lower the device to the viewing position to automatically wake it.

Temporary Wake-up

If the device enters Flip Standby mode after being removed from the helmet and installed on a firearm:

1. Short press the **Power** button to temporarily wake the device for 30 seconds.
2. During the 30-seconds, long press the **Menu** button to change the operating mode to **Standalone/Handheld** or **Clip-on**.
3. When the operating mode is changed, Flip Standby is disabled.
4. If the operating mode is not changed within 30 seconds, the device will automatically return to Flip Standby mode.

SETTINGS > AUDIO (STANDALONE/HANDHELD ONLY)

Turn the microphone on or off

1. In the settings submenu, short press the **Up/Down** buttons to move to **Audio**.
2. Short press the **Menu** button to select it.
3. Short press the **Up/Down** buttons to turn the microphone on or off.
4. When turned on, the microphone icon appears in the status bar.
5. Short press the **Menu** button to save the selection and return.



SETTINGS > CALIBRATION

Set the non-uniformity correction (NUC) mode to automatic or manual

1. In the settings submenu, short press the **Up/Down** buttons to move to **Calibration**.
2. Short press the **Menu** button to select it.
3. Short press the **Up/Down** buttons to toggle between the NUC modes: Auto and Manual.



4. The selected mode, Auto or Manual, appears in the status bar.
5. Short press the **Menu** button to save the selection and return.

SETTINGS > STATUS AUTO HIDING

Turn on the status bar auto-hide function

1. In the settings submenu, short press the **Up/Down** buttons to move to **Status Auto Hiding**.
2. Short press the **Menu** button to select it.
3. Short press the **Up/Down** buttons to turn the auto-hide function on or off.
4. Short press the **Menu** button to save the selection and return.



When Status Auto Hiding is turned on:

- The status bar will automatically be hidden after 7 seconds of inactivity.
- In most menu interfaces, the menu closes after 15 seconds of inactivity. The status bar then disappears after another 7 seconds.
- Press any button to display the status bar again.

SETTINGS > UNIT (STANDALONE/HANDHELD ONLY)

Set the units of measure to meters (m) or yards (yd)

1. In the settings submenu, short press the **Up/Down** buttons to move to **Unit**.
2. Short press the **Menu** button to select it.
3. Short press the **Up/Down** buttons to toggle between the unit options: m (meters) and yd (yards).
4. Short press the **Menu** button to save the selection and return.



SETTINGS > DATE AND TIME (STANDALONE/
HANDHELD ONLY)

Set the date and time

1. In the settings submenu, short press the **Up/Down buttons** to move to **Date and Time** .
2. Short press the **Menu**  button to begin editing it.
3. Short press the **Menu**  button to move between the digits; the cursor location is marked by gold text and gold arrows above and below:
 - a. **MM/DD/YYYY**: Month/Day/Year
 - b. **HH:MM**: Hour:Minute (in 24-hour format)
4. Short press the **Up/Down buttons** to increase or decrease the value of the selected digit.
5. Long press the **Menu**  button to finish editing and exit.
6. The set time is displayed in the status bar.



NOTES:

- Formatting cannot be undone; all files saved on the internal memory card will be permanently deleted. Back up important files before formatting.
- Do not turn off the device or perform any other operation while formatting is in progress.

SETTINGS > INFO (STANDALONE/HANDHELD ONLY)

Show device information

1. In the settings submenu, short press the **Up/Down buttons** to move to **Info** .
2. Short press the **Menu**  button to display device information: the model number; GB of storage used; the part and serial numbers; the FPGA, hardware, and SOC software versions; and the FCC ID.
3. Short press the **Menu**  button to return to the previous menu.



SETTINGS > FORMATTING (STANDALONE/
HANDHELD ONLY)

Erase all photo, video, and RAV files from the internal storage

1. In the settings submenu, short press the **Up/Down buttons** to move to **Formatting** .
2. Short press the **Menu**  button to select it. A confirmation popup will be displayed on the screen.
3. Short press the **Up/Down buttons** to move between the options: **Confirm** and **Cancel**.
4. Short press the **Menu**  button to select **Cancel** to return to the previous menu without reformatting, or **Confirm** to begin reformatting the internal storage and deleting all recorded files.



SETTINGS > FACTORY RESET (STANDALONE/
HANDHELD ONLY)

Perform a factory reset and return settings to factory-default values

1. In the settings submenu, short press the **Up/Down buttons** to move to **Factory Reset** .
2. Short press the **Menu**  button to select it. A confirmation popup will be displayed on the screen.
3. Short press the **Up/Down buttons** to move between the options: **Confirm** and **Cancel**.



- Short press the **Menu**  button to select **Cancel** to return to the previous menu without resetting, or **Confirm** to restore device settings to the factory-default values.

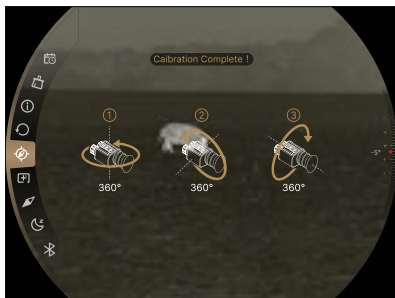
NOTES:

- A factory reset cannot be undone.
- A factory reset restores device settings but does not delete recorded photos or videos. Use the Formatting function to erase files from the internal storage.

SETTINGS > COMPASS CALIBRATION (STANDALONE/HANDHELD ONLY)

Recalibrate the digital compass to improve accuracy of the compass and pitch/tilt angles

- In the settings submenu, short press the **Up/Down** buttons to move to **Compass Calibration** .
- Short press the **Menu**  button to select it. A confirmation popup will be displayed on the screen.
- Short press the **Up/Down** buttons to move between the options: Confirm and Cancel.
- Short press the **Menu**  button to select **Cancel** to cancel and return to the previous menu, or **Confirm** to begin recalibrating the compass.
- If Confirm is selected, follow the onscreen instructions to rotate the MICRO 2 at least 360 degrees around the X, Y, and Z axes. The indicator for the current axis will flash.
- When all 3 axes have been calibrated, "Calibration Complete!" will display, and the device will automatically return to the previous menu.



NOTES:

- Rotate the device around its own center axis.
- Long press the **Menu**  button at any time to exit the compass calibration.

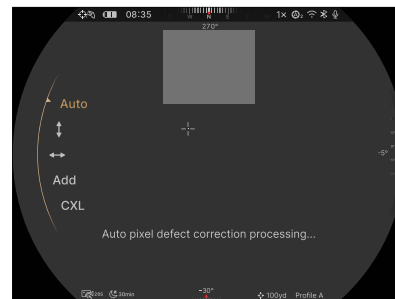
SETTINGS > PIXEL DEFECT CORRECTION (STANDALONE/HANDHELD ONLY)

Correct defective pixels

Defective pixels are pixels that do not change correctly compared to the other image pixels—they are either brighter or darker than surrounding pixels. The MICRO 2 Series has a tool for correcting defective pixels on the sensor using its internal software.



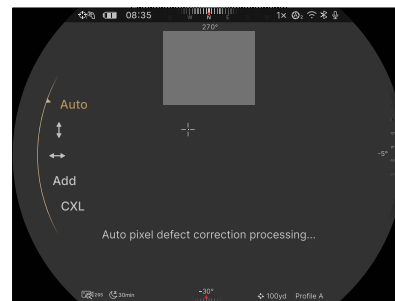
- In the settings submenu, short press the **Up/Down** buttons to move to **Pixel Correction** .
- Short press the **Menu**  button to select it.
- The defective pixel correction interface has the following features:



- Cursor:** Move the pixel cursor to the position of the defective pixel.
- Auto:** Use the auto pixel correction function to correct all defective pixels automatically.
- : Move the cursor along the Y-Axis.
- : Move the cursor along the X-Axis.
- Add:** Add a defective pixel to the "to be corrected" list.
- CXL:** Clear the "to be corrected" list.

To auto-correct defective pixels:

- In the pixel defect correction interface, **Auto** is selected by default. The gold arrow shows the cursor location.
- Short press the **Menu**  buttons to select **Auto** and correct all defective pixels automatically.
- A progress message will appear at the bottom of the screen, and the automatic correction function will complete in about 15 seconds.



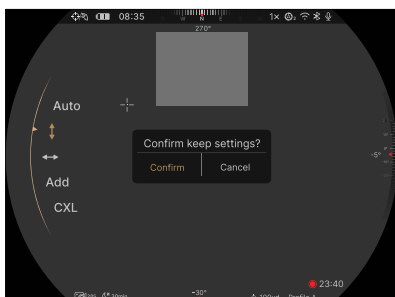
NOTE: If the algorithm fails to locate all defective pixels, it may be necessary to correct additional pixels manually.

To select and correct defective pixels manually:

1. Select the axis (X or Y) along which to move the cursor:
 - a. Short press the **Up/Down buttons** to move to **X** or **Y**. A gold arrow marks the cursor location.
 - b. Short press the **Menu** button to select X or Y. The selected axis will turn from white to gold.
2. With the **X** or **Y** button selected, move the cursor to the location of the defective pixel:
 - a. Use the **Power** button to move in the positive direction: X= Right and Y= Up.
 - b. Use the **Photo** button to move in the negative direction: X= Left and Y= Down.
 - c. Short press to move the cursor in the corresponding direction by 1 pixel; long press to move 10 pixels.
3. Short press the **Menu** button to deselect the axis.



4. Short press the **Up/Down buttons** to move to **Add**, and then short press the **Menu** button to add the location of the defective pixel to a "to be corrected" list. **Add** will flash briefly to indicate the pixel has been added.
5. Repeat steps 1–4 to add any additional defective pixels.
6. Select the **CXL** button to clear the "to be corrected" list, as needed.
7. Long press the **Menu** button to correct pixels or exit. A confirmation popup will be displayed on the screen.



8. Short press the **Up/Down buttons** to move between the options: **Confirm** and **Cancel**.
9. Short press the **Menu** button to select **Cancel** to cancel pixel correction and exit, or **Confirm** to correct the saved list of defective pixels and return to previous.

SETTINGS > COMPASS

Turn the digital compass and pitch and tilt angles on or off

1. In the settings submenu, short press the **Up/Down buttons** to move to **Compass**.
2. Short press the **Menu** button to select it.
3. Short press the **Up/Down buttons** to turn the compass on or off.
4. When the digital compass function is turned on, the digital compass appears at the top of the screen, the pitch angle appears on the right side, and the tilt angle appears at the bottom.
5. Short press the **Menu** button to save the selection and return.



SETTINGS > STANDBY (STANDALONE/HANDHELD ONLY)

Set the auto standby status and time

To conserve battery, the rifle scope may be set to enter standby mode automatically.

1. Short press the **Menu** button to enter the menu.
2. Short press the **Up/Down buttons** to select **Standby**.
3. Short press the **Menu** button to enter the submenu.
4. Short press the **Up/Down buttons** to move through the standby options: OFF, 5 min, 10 min, 20 min, 30 min, or 60 min. The standby icon and set time appear in the bottom status bar.



- Short press the **Menu**  **button** to confirm the selection and return to the home screen.

NOTES:

- When auto standby is turned on:
 - After the set number of minutes of inactivity, the rifle scope will enter standby mode automatically when it is tilted up or down at an angle of more than 70° or left or right at an angle of more than 30°.
 - The MICRO2 will not enter standby mode while it is in a level (horizontal) firing position.
 - Any device operation restarts the standby timer.
 - Short press the **Power**  **button** to exit standby.
- When auto standby is off, the rifle scope will operate until the battery runs out.



Screen Adjustment (HELMET & CLIP-ON MODES ONLY)

Clip-On Mode Zeroing

The thermal image position may be adjusted to match the point of aim of the day optic. The MICRO 2 supports 3 clip-on zeroing profiles, A, B, and C. See page 22 for instructions for zeroing in clip-on mode.

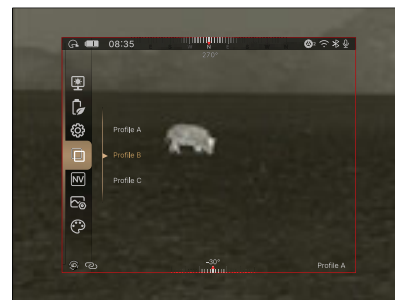


Helmet Mode Screen Adjustment

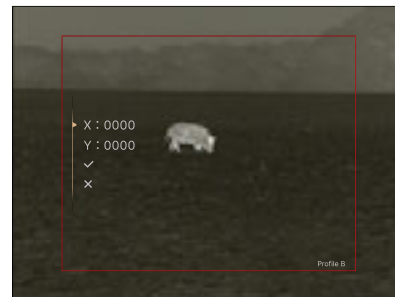
For the MICRO 2 H25, the display image position may be adjusted in helmet mode. The H25 supports three calibration profiles, A, B, and C, which allow the user to store three unique screen positions.

- Short press the **Menu**  **button** to enter the menu.
- Short press the **Up/Down buttons** to move to **Screen Adjustment** , and short press the **Menu**  **button** to select it.

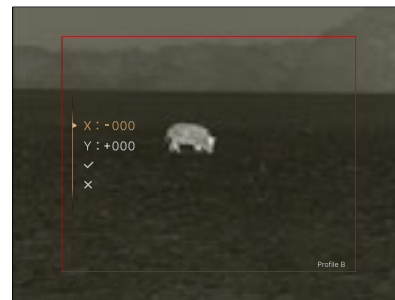
- Short press the **Up/Down buttons** to move through the profile options: A, B, and C.
- Short press the **Menu**  **button** to select a profile and enter the screen-adjustment interface, which has the following features:



- X**: Move the screen along the X-Axis.
- Y**: Move the screen along the Y-Axis.
- ✓**: Save and return to the menu.
- x**: Exit without saving.



- Short press the **Up/Down buttons** to move the gold arrow cursor between **X** and **Y**.
- Short press the **Menu**  **button** to select the desired axis. The selected axis will turn from white to gold.
- With X or Y selected, adjust the position of the screen:
 - Use the **Power**  **button** to move in the positive direction: X= Right and Y= Up.
 - Use the **Photo**  **button** to move in the negative direction: X= Left and Y= Down.
 - Short press to move in the corresponding direction by 1 pixel; long press to move 10 pixels.
- Short press the **Up/Down buttons** to move to the **✓ button** to save the new screen position and return to previous; **OR**
- Short press the **Up/Down buttons** to move to the **x button**, then short press the **Menu**  **button** to cancel and exit.



Wi-Fi

Turn Wi-Fi on or off

Turn Wi-Fi on to manipulate the MICRO 2 via the Nocpix App.

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Wi-Fi** .
3. Short press the **Menu**  button to select it.
4. Short press the **Up/Down** buttons to turn Wi-Fi on or off.
5. When turned on, the Wi-Fi  icon appears in the status bar.
6. Short press the **Menu**  button to save the selection and return.



Screen Brightness

Adjust the screen brightness

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Screen Brightness** .
3. Short press the **Menu**  button to select it.
4. Short press the **Up/Down** buttons to move through the screen brightness levels, from 1 to 10.
5. Short press the **Menu**  button to save the selection and return.



PIP

Turn the picture-in-picture window on or off

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **PIP** .
3. Short press the **Menu**  button to select it.
4. Short press the **Up/Down** buttons to turn the PIP window on or off.
5. When turned on, the PIP window appears at the top of the screen. The PIP image is magnified 2x the selected zoom level.
6. Short press the **Menu**  button to confirm the selection and return to the previous menu.

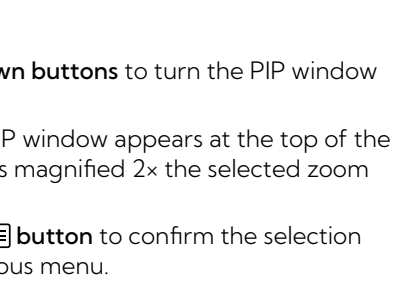


Image Settings

Adjust the image settings

1. Short press the **Menu**  button to enter the menu.
2. Short press the **Up/Down** buttons to move to **Image Settings** .
3. Short press the **Menu**  button to enter the submenu.



IMAGE SETTINGS > IMAGE BRIGHTNESS

Set the screen brightness level

1. In the image settings submenu, short press the **Up/Down** buttons to move to **Image Brightness** .
2. Short press the **Menu**  button to select it.
3. Short press the **Up/Down** buttons to move through the brightness levels, from 1 to 10.
4. Short press the **Menu**  button to save the selection and return.



IMAGE SETTINGS > IMAGE CONTRAST

Set the image contrast level

1. In the image settings submenu, short press the **Up/Down buttons** to move to **Image Contrast** .
2. Short press the **Menu**  button to select it.
3. Short press the **Up/Down buttons** to move through the contrast levels, from 1 to 10.
4. Short press the **Menu**  button to confirm the selection and exit.



IMAGE SETTINGS > IMAGE SHARPNESS

Set the image sharpness level

1. In the image settings submenu, short press the **Up/Down buttons** to move to **Image Sharpness** .
2. Short press the **Menu**  button to select it.
3. Short press the **Up/Down buttons** to move through the sharpness levels, from 1 to 10.
4. Short press the **Menu**  button to confirm the selection and exit.



IMAGE SETTINGS > IMAGE HUE

Set the image hue mode

1. In the image settings submenu, short press the **Up/Down buttons** to move to **Image Hue** .
2. Short press the **Menu**  button to select it.
3. Short press the **Up/Down buttons** to move through the options:
 - a. **Warm**: Provides a softer image and reduces eye strain.



- b. **Cold**: Provides increased contrast and image brightness.

4. Short press the **Menu**  button to confirm the selection and exit.

NOTE: Image hue is available when using the white hot or black hot color palette.

23. Basic Inspection

It is recommended to carry out a technical inspection before each use. Please check the following:

- The imager appearance: there should be no cracks in the body or visible damage.
- The condition of the objective lens and eyepiece: there should be no cracks, greasy spots, dirt, or other deposits on the lens.
- The rechargeable battery should be fully charged.
- The control buttons should be in working order.

24. Basic Maintenance

Always replace the objective lens cap (7) after use to avoid damaging or scratching the lens. Never touch the lens directly; oil from your skin can damage the lens coating and surface.

Basic maintenance should be carried out at least twice a year and includes the following steps:

- Wipe the surface of the external metal and plastic components with a clean, dry cotton cloth. Do not use chemical, corrosive, or abrasive cleaners. Canned air may also be used to clean the external components.
- Clean the electric contacts and battery slots on the imager using a non-greasy organic solvent.
- Check the lens and eyepiece. If necessary, remove any dirt or sand from the optics; a non-contact cleaning method is preferred.
- Cleaning the exterior of the lens should only be done with the included microfiber lens cloth or a similar product. Only clean the lens when it is visibly soiled. Frequent wiping or cleaning can degrade the anti-reflective lens coating.

Additional Care Considerations

- Charge the battery at least once every six months.
- Do not attempt to disassemble or repair the MICRO 2. Doing so will void the warranty.
- The electrical and optical components are susceptible to static electricity. Do not expose to electrostatic discharge.
- Do not throw, drop, shake, or crush the MICRO 2.

25. Warranty

At iRayUSA, we're first and foremost hunters and users of our products, and we understand that failure isn't an option. We also understand that having to wait extended periods for repair isn't something that a customer should have to put up with when something does go wrong. During your published warranty period, iRayUSA will repair or replace, at its discretion, any optic that becomes defective during normal use. Additionally, if we cannot fix your optic in less than one week, we will offer to replace it with a replacement product in like or better condition. If you would rather wait for your specific optic to be repaired, we can handle that too.

We know you've never seen this from a thermal manufacturer, and neither have we; that's why we started iRayUSA.

Our warranty follows the product and is not tied to the original owner. The warranty period is tied to the date of sale to the dealer. This warranty only covers normal use and does not cover cosmetic damage, normal wear, intentional damage, theft, loss, any act of God, or a condition caused by use other than intended. Any product that is modified, opened, or tampered with will void any warranty coverage. Any serial number damage or alteration on the product will be considered a modification. Be sure to register your MICRO 2 at irayusa.com/register.

ISSUE	POSSIBLE CAUSES
The MICRO 2 will not turn on.	The 18650 battery is very low or has completely discharged.
The MICRO 2 can not connect to a computer or external power supply.	External power supply has completely discharged.
	Computer is turned off.
	USB-C data cable is damaged.

To return a product for repair:

1. Go to irayusa.com/warranty and click the **Request an RMA button** to request an RMA number. Returns will not be accepted without an RMA.
2. The customer is responsible for shipping the product to iRayUSA, per the instructions included with the RMA. iRayUSA will return the product at no cost.

WARRANTY NOTES:

- The one-week timeline starts from the time of receipt of the product at iRayUSA.
- iRayUSA is not liable for any damages or loss incurred when shipping to iRayUSA.
- This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Please give us a call at **800-769-7125**, visit irayusa.com/warranty, or email info@irayusa.com with any questions.

26. General Troubleshooting

The troubleshooting table below and on the next page lists issues that may occur when operating the MICRO 2 Series. Carry out the recommended troubleshooting steps in the order shown in the table. Please contact iRayUSA at 800-769-7125 or irayusa.com/support or an authorized vendor for assistance before attempting to perform any modifications or repairs beyond the scope of the troubleshooting procedures in this manual. Unauthorized repairs or modifications will void your warranty.

TROUBLESHOOTING STEPS
Charge the battery.
Check the external power supply and charge it if necessary.
Power on the computer.
Replace the cable.

ISSUE	POSSIBLE CAUSES
The MICRO 2 can not connect to the mobile device (smartphone or tablet).	Wi-Fi is not turned on.
	Wrong Wi-Fi password entered.
	Too many Wi-Fi signals nearby, which may cause interference.
Wi-Fi signal is lost or interrupted.	The device is out of range of a strong Wi-Fi signal, or there are obstacles (such as concrete walls) between the device and the signal.
The image is blurry, the background is uneven, or vertical lines or artifacts are present.	Non-uniformity correction is required.
The image is too dark.	Screen brightness level is too low.
The GUI is clear, but the image is blurry.	The lens is not focused.
	There is dust or ice on the interior or exterior optical surfaces of the lens.
	There is condensation on the interior or exterior optical surfaces of the lens.
The aiming reticle shifts after firing rounds.	The MICRO 2 is not mounted securely or the mount is not secured on the MICRO 2.
Observed target disappears.	Observing the target through glass.
The MICRO 2 will not focus.	Image settings are not optimal for the current environmental conditions or the object being observed.
When the MICRO 2 is used in low-temperature conditions, the image quality of the surroundings is worse than in warm-temperature conditions.	Environmental conditions.

TROUBLESHOOTING STEPS
Turn on the Wi-Fi in the menu. See Menu > Wi-Fi on page 52.
On the mobile device, go to Settings > Wi-Fi and enter the correct password. The default password is 12345678. See Menu > Wi-Fi on page 52.
Move the MICRO 2 and mobile device to an area with no or fewer Wi-Fi signals.
- Try again when the Wi-Fi signal is stable. - Move the MICRO 2 closer to the Wi-Fi signal.
Perform a non-uniformity correction. See Non-uniformity Correction on page 25 and Settings > Calibration on page 42.
Adjust the screen brightness in the menu. See Menu > Image Settings on page 53.
Adjust the focus on the target by rotating the objective focus lever (6).
Wipe the external optical surface with the included microfiber lens cloth.
- Wipe the external optical surface with the included microfiber lens cloth. - Allow the MICRO 2 to dry by leaving it in a warm, dry environment for at least 4 hours.
- Check that the MICRO 2 has been securely mounted. - Make sure you are using the same brand, type, and weight of the bullets as when the MICRO 2 and weapon were initially zeroed. - If the MICRO 2 was zeroed in different environmental conditions, a slight shift of the zero is possible.
Remove any glass windows from the field of view.
- Check the external surface of the objective lens and eyepiece and, where necessary, wipe away any dust, condensation, frost, etc. - In cold weather, you can use special anti-fogging coatings, such as those made for corrective glasses. - Adjust the focus on the target by rotating the objective focus lever (6). - Adjust the image settings. See Menu > Image Settings on page 53.
In warm-temperature conditions, objects being observed (surroundings and background) heat up differently because of thermal conductivity, thereby generating a high-temperature contrast. Accordingly, image quality produced by the rifle scope will be higher. In low-temperature conditions, the background will cool down to roughly the same temperature, and thus the temperature contrast is substantially reduced and image detail can go down as there is less contrast in the scene. This is a normal function of a thermal imager and is no indicator of actual detector performance.

27. Notes

This image shows a full page of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page, providing a template for writing. There are no margins, text, or other markings on the page.[illegible]



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