User's Manual

NOCPIX

RICO 3 SERIES

Rugged Infrared Compact Optic



Nocpix

W A R N I N G !
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.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

2601 State Hwy 121, Building 3, Suite 306, Lewisville, TX 75056
800.769.7125 info@irayusa.com

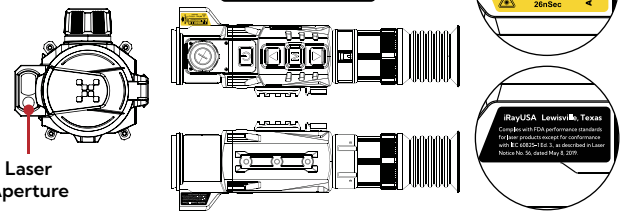
NOTICE: This product is a Class 3R laser product.

Explanatory Label



Mfr ID and Certification Label





NOTE: There is no scheduled maintenance or service necessary to keep this product in compliance and no user service or maintenance is required.

This Laser Product is designated as Class 3R during all procedures of operation.

Wavelength: 907 nm
Laser Power for Classification: <523nJ
Emission Type: Pulsed, Invisible
Pulse Width: 26 nSec

INVISIBLE LASER RADIATION
AVOID DIRECT EYE EXPOSURE
CLASS 3R LASER PRODUCT

NOTES:

- There is no service required or allowed of this product by the end user.
- This product is to be serviced or repaired only by factory authorized technicians.
- This product is not to be opened or modified by the user.
- The user is not to modify the unit or remove protective covers or housing. Service is only to be handled by authorized factory trained technicians. This product has no user-serviceable parts.
- Do not point laser or allow laser light to be directed or reflected toward other people or reflective objects.
- Operators should be trained to not target the eyes of people, animals, and pets or aim at reflective objects, etc.
- There is a potential hazard of eye or skin exposure to laser radiation if the included instructions are not followed.
- This laser is never to be operated if the unit is defective or the cover or seal is damaged.
- Always operate the product with the aperture pointed downrange.

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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.

1. Overview

Built upon the RICO 2 series, the RICO 3 now boasts an integrated 1,600-yard capable rangefinder, and 10-hour battery life. The RICO 3 features a high-performance 12 µm Nocpix core and an ultra-high-contrast 1.03" circular AMOLED HD display for an unparalleled viewing experience. The RICO 3 takes its image processing one step further with Advanced Image Correction and Automatic Image Optimization courtesy of its Reality+ processor. An intuitive and easy-to-use interface combines with a picture-in-picture function, QD picatinny mount, magnesium housing, 1000 G/s² shock resistance, and 64 GB of internal memory. The RICO 3 also unlocks advanced features such as a rotating zoom lever, magnetic charging port, and recoil-activated video.

2. Features

- 12 µm high-performance thermal detector
- ≤15 mK sensitivity
- 1600-yard integrated, high-precision laser rangefinder
- High image quality
- Magnesium alloy housing
- Quick-change rechargeable battery pack
- Maximum detection range 2840 yards
- HD 2560×2560 AMOLED display
- High frame frequency: 60Hz
- Multi-variable ballistics calculator
- Multiple reticle types and color options
- Supports multiple charging options
- Recoil-activated video
- Multiple zero profiles and ranges
- Built-in 64 GB storage to support image capture and video recording
- Built-in Wi-Fi module
- Mobile device App compatible
- Picture in Picture (PIP)
- User-friendly interface
- Pixel calibration functions

3. Tech Specs

RICO 3	L35R	H35R	H50R
Sensor			
Resolution	384×288	640×512	
Pixel Size	12 µm		
Frame Rate	60hz		
Sensor Sensitivity	≤15 mK		
Image Processing	Reality+		
Core	Nocpix 384	Nocpix 640	
Optics			
Objective Lens	35 mm f/1.0		50 mm f/1.0
Magnification	3×	2×	3×
Digital Zoom	4×	8×	
Field of View	7.5° × 5.7°	12.6° × 10.1°	8.8° × 7.0°
Detection Range	1990 Yards		2840 Yards
Display Type	1.03-inch Large-format AMOLED		
Display Resolution	2560×2560		
Color Palettes	White Hot, Black Hot, Red Hot, Rainbow, Violet, Crimson, Viridian		
Reticle Types	8 (7 Static, 1 DIY)		
Reticle Colors	Black Red, Black Green, White Red, White Green, Black White, White Black, Red, Green, Yellow		
Mounting System	Picatinny MIL-STD 1913 Rail		
P.I.P.	Yes		
Rangefinder	Integrated 1,600 yd LRF		
Eye Relief	70 mm		
Diopter Range	-5 to +5		
Electronics			
Onboard Recording	Video, Recoil-Activated Video, and Image		
Onboard Storage	64 GB		
Wireless Connectivity	Image and Video via App.		
Data/Power Connector	USB-C		
Power Supply	USB-C External, NBP-8 Li-ion Battery Pack (×2)		
Max. Operating Time	10 Hours		
Start Up Time	<10 Seconds, Instant from Standby		
Physical			
Size	8.90" × 3.43" × 3.43"		9.21" × 3.43" × 3.43"
Weight	28.89 Oz	29.10 Oz	32.77 Oz
Environmental/Warranty			
Warranty	5 Years		
Housing Material	Magnesium Alloy		
Ingress Protection	IP67		
Operation Temperature	-4°F~122°F		
Max. Recoil	1000 g/s² (300 Win./7mm Mag)		

4. Accessories

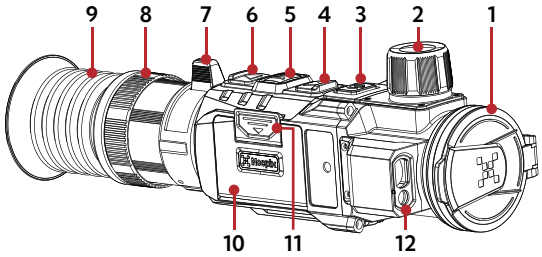
The RICO 3 rifle scope ships with everything you need to get out and hunt.

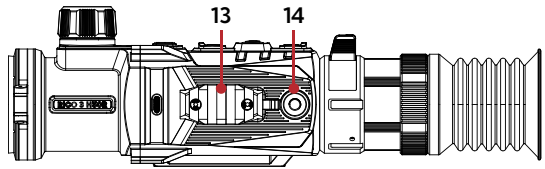
- Objective Lens Cap
- Standard Rubber Eyeguard
- Dual Throw Mount
- M5 Screws
- 3mm Hex Key and Spanner Tool
- Magnetic Charging Cable
- USB-C Data Cable
- NBP-8 Battery
- Soft Case
- Lens Cloth
- User Manual



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

5. Components and Controls





1	Objective Lens Cap
2	Objective Lens Focus Knob
3	Power Button
4	Up Button
5	Menu Button
6	Down Button
7	Zoom Lever
8	Eyepiece / Diopter Adjustment Ring
9	Eyeguard
10	NBP-8 Battery Pack
11	Battery Compartment Latch
12	Laser Rangefinder
13	Accessory Rail
14	Magnetic Charging Port / USB-C Port

6. Description of Control Buttons & Shortcuts

Power Button ⏻		
Current Screen, Menu, or Device Status	**Short Press**	**Long Press**
Device off	——	Power on the device
Home screen	Manually perform a shuttered NUC (non-uniformity correction)	Power off the device
Main menu	Return to the previous menu without saving changes	——
Continuous rangefinding mode	Deactivate rangefinding mode	——
Defect pixel correction & reticle zeroing interfaces	Exit the interface without saving	——

Up Button ▲		
Current Screen / Menu	**Short Press**	**Long Press**
Home screen	Take a single ranging measurement.	**Continuous LRF is ON:** Activate/deactivate continuous ranging.
		Continuous LRF is OFF: Long press, move LRF cursor to target, then release the button to take a single ranging measurement.
Continuous rangefinding mode	——	Deactivate rangefinding mode
Main menu / quick menu	Move the cursor up	——
Defect pixel correction & reticle zeroing interfaces	Move the cursor 1 pixel in the positive direction	Move the cursor 10 pixels in the positive direction

Up Button ▲ + Down Button ▼		
Current Screen / Menu	**Short Press**	**Long Press**
Home screen	Perform a shutterless NUC (non-uniformity correction)	Perform a shutterless NUC (non-uniformity correction)

Menu Button M		
Current Screen / Menu	**Short Press**	**Long Press**
Home screen	Enter the quick menu	Enter the main menu
Main menu	Change menu options; enter the submenu; or confirm submenu changes and return to previous	Save and return to the previous menu
Quick menu	Toggle through the quick menu options	Exit the quick menu
Defect pixel correction & reticle zeroing interfaces	Select / deselect axis of movement (X or Y)	Save and return to previous

Down Button ▼		
Current Screen / Menu	**Short Press**	**Long Press**
Home screen	Take a photo	Start / stop recording video
Main menu / quick menu	Move the cursor down	——
Defect pixel correction & reticle zeroing interfaces	Move the cursor 1 pixel in the negative direction	Move the cursor 10 pixels in the negative direction

Zoom Lever	
Current Screen / Menu	**Rotate**
Home screen	Adjust the digital zoom level: Turn clockwise to zoom in. Turn counterclockwise to zoom out.

7. Quick Start Guide

Step 1: Prepare to Use the RICO 3

1. Compare the box contents to the accessories list and examine each for any shipping damage. See **Accessories** on page 4.
2. Check the lens to ensure there are no smudges or dirt present. Clean with the included lens cloth, if necessary.
3. Charge the battery pack **(10)**. See **Charging the Battery Pack** on page 9.
4. Install the eyeguard **(9)**.

Step 2: Turn On the RICO 3

1. Open the objective lens cap **(1)**.
2. Long press the **Power ⏻ button** for 3 seconds to power on the RICO 3.
3. Rotate the eyepiece diopter adjustment ring **(8)** until the interface icons are clear.

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

Step 3: Adjust Settings in the Quick Menu

Short press the **Menu M button** to enter the quick menu to adjust the following settings (see **Using the Quick Menu** on page 17 for detailed instructions):

1. Set the color palette to white hot, black hot, red hot, rainbow, violet, crimson, or viridian.
2. Select an image brightness level, from 1 to 10.
3. Select an image contrast level, from 1 to 10.
4. Select an image sharpness level, from 1 to 10.
5. Turn on Ultra-clear mode.
6. Set the image hue to warm or cool.
7. Select a preset ballistic distance.

Step 4: Adjust Device Settings

1. Long press the **Menu M button** to enter the main menu (see **Main Menu Options and Descriptions** on page 31 for detailed instructions) to:
   a. Turn on the PIP window.
   b. Set the non-uniformity correction (NUC) mode to automatic (A) or manual (M).
   c. Turn on the motion sensor.
   d. Turn on recoil activated video.
   e. Turn on the microphone.
   f. Set the date and time.
   g. Set the unit of measure to meters or yards.
2. From the home screen, rotate the zoom lever **(7)** clockwise to zoom in or counterclockwise to zoom out on the observed object.

Step 5: Set Up the Reticle and Zero the RICO 3

1. Adjust the reticle settings (see **Main Menu > Reticle&Zeroing** on page 31):
   a. Select a zeroing profile or create a new one.
   b. Set the reticle type from 1 to 7. A custom reticle is also available for purchase in the Nocpix App.
   c. Set the reticle color to black red, black green, white red, white green, black white, white black, red, green, or yellow.
   d. Set the reticle brightness from 1 to 6.
2. Zero the rifle scope. See **Zeroing the RICO 3** on page 19.
   a. Set a zero distance that matches the target distance.
   b. Zero the reticle.

8. Charging the Battery Pack

The RICO 3 rifle scope comes with two long-lasting rechargeable lithium-ion NBP-8 battery packs, which allows up to 10 hours of operation each. Fully charge the battery packs before using the RICO 3 for the first time.

When not installed in the rifle scope, the battery can be charged directly:

1. Connect the included data cable **(15)** to the USB-C port on the side of the battery.
2. Connect the USB end of the data cable to:
   a. A 5V–2A USB power adapter; **OR**
   b. Any standard USB 3.0 port on a laptop or computer; **OR**
   c. An external power supply, such as a USB power bank.
3. The indicator lights on the side of the battery indicate the battery charge level. When all four lights are lit, the battery is fully charged.
4. When fully charged, disconnect the USB-C cable.

Charging Via the Magnetic Charging Port

1. Connect the magnetic charging cable **(16)** to the magnetic port **(14)** on the side of the rifle scope.
2. Connect the USB end of the magnetic charging cable to:
   a. A 5V–2A USB power adapter; **OR**
   b. Any standard USB 3.0 port on a laptop or computer; **OR**
   c. An external power supply, such as a USB power bank.

Charging via the USB-C Port

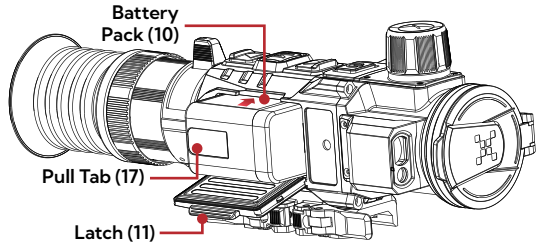
1. Remove the magnetic charging port and connect the data cable **(15)** to the USB-C port **(14)** behind it.
2. Connect the USB end of the data cable to:
   a. A 5V–2A USB power adapter; **OR**
   b. Any standard USB 3.0 port on a laptop or computer; **OR**
   c. An external power supply, such as a USB power bank.
3. During charging, the battery status 100 icon in the status bar changes to the battery charging icon.
4. When fully charged, disconnect the charging cable.

NOTES:

- You may charge and operate the RICO 3 at the same time.
- The battery status icon turns red when the battery is below 20%; charge right away to avoid over-discharge and a reduction in battery capacity or service life.

9. Installing the Battery Pack

1. Pull the battery compartment latch **(11)** down to open the cover.
2. Position the battery with the terminal slots on the front edge and the red pull tab **(17)** on the back. Insert the battery **(10)**.
3. Press the battery compartment cover closed.



WARNING: The RICO 3 can only be powered by a factory-supplied NBP-8 battery pack. Using any other battery pack may cause irreparable damage to the rifle scope or cause a fire. Any damage from using an improper battery pack will not be covered by warranty.

10. Removing the Battery Pack

To remove the battery pack from the RICO 3:

1. Pull the battery compartment latch **(11)** down to open the cover.
2. Pull the red tab **(17)** on the battery to remove it.

11. Battery Safety Warnings

WARNINGS:

- Do not use a power adapter or USB cable that has been modified or damaged.
- Do not expose the battery to high temperatures or open flame, and do not immerse it in water.
- Do not leave the battery unattended while charging.

- Do not leave the battery charging for long periods after full charge is reached. Charging time should not exceed 24 hours.
- Keep the battery pack out of the reach of children and pets.
- The battery is equipped with short-circuit protection. However, any situation that may cause short-circuiting should be avoided.
- Do not disassemble, modify, hit, or drop the battery pack.
- Do not connect the battery to any external device with an electrical current that exceeds permitted levels.
- Do not connect an external device with a current supply that exceeds the 3.0 USB port.

To maintain optimal battery capacity and service life:

- When storing for long periods, avoid fully charging or discharging the battery; instead, partially charge the battery and store it separately from the device.
- Do not charge an extremely cold battery. Allow the battery to warm up for about 45 minutes before charging.
- Charge the battery at a temperature range from 32 °F to 113 °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. External Power Supply

The RICO 3 supports the use of a 5V external power supply, such as a mobile power bank. To connect to an external power supply:

1. Remove the magnetic charging port **(14)** and connect the data cable **(15)** to the USB-C port behind it.
2. Connect the other end of the USB-C cable to the external power supply.
3. The RICO 3 will switch to operation from the external power supply, and the internal battery pack will begin slowly charging.
4. In the status bar, the battery status 100 icon will change to the battery charging icon.
5. If the external power supply is disconnected, the RICO 3 will automatically switch to the battery pack without powering off.

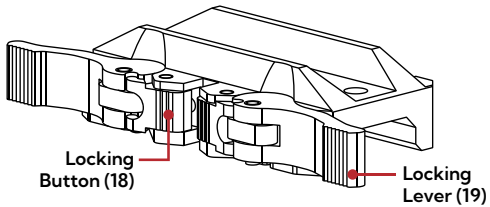
NOTE: Do not connect the RICO 3 to an external device with a power supply that exceeds the 3.0 USB cable.

13. Mounting the RICO 3

To mount the RICO 3 rifle scope to the Picatinny rail of your rifle.

1. Press the locking button **(18)** and pull the locking lever **(19)** to open each throw lever on the Dual Throw Mount.
2. Install the mount to the Picatinny rail.
3. Press the levers closed to lock the mount in place. You will hear the lever and locking button click.

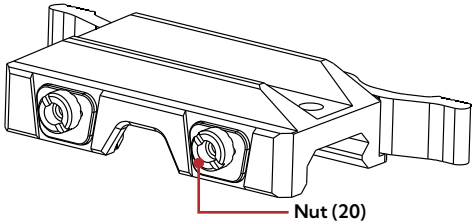
The RICO 3 is now ready to be zeroed. See Zeroing the RICO 3 for instructions.



Adjusting the Throw Lever Tension

If you cannot slide the mount onto the Picatinny rail because the throw levers are in the open position but the locking plate is not, or if the mount is not tight to the rail after the throw levers are closed, you may loosen or tighten the tension of the throw levers by adjusting the nuts **(20)**.

1. Open both throw levers. This will cause the adjustment nuts **(20)** 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.



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.

Using the Control Buttons

The RICO 3 is operated via four 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 objective lens cap **(1)**.
2. Long press the **Power ⏻ button** for 3 seconds to turn on the rifle scope. The Nocpix logo will appear.
3. To determine the current battery charge, check the battery status 100 icon in the top status bar.

Powering Off and Entering Standby

To power off the RICO 3:

1. Long press the **Power ⏻ button**. The shutdown screen will open, showing a 3-second countdown.
2. The RICO 3 will shut down automatically when the 3-second countdown completes.

NOTE: Press any button before the countdown completes to cancel the shutdown and return to the home screen.

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

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

1. Enable automatic standby in the main menu.
2. When on, the RICO 3 will automatically enter standby when tilted down more than 70°.
3. When tilted up less than 70°, the device will wake.

NOTES:

- See **Main Menu > Standby** on page 51.
- When auto standby is turned off, the rifle scope will operate until the batteries run out.

Adjusting the Focus

ADJUSTING THE DIOPTER/EYEPIECE

1. Rotate the eyepiece diopter adjustment ring **(8)** at the rear of the rifle scope right or left until the user interface is clear.
2. Look closely to ensure all icons, the status bar, and the reticle appear sharp and in focus. No additional diopter adjustments are required unless the user wishes to make changes.

NOTES:

- After the initial adjustment, there is no need to rotate the eyepiece adjustment ring **(8)** for long distances or other conditions.
- If necessary during standard use, the objective lens focus knob **(2)** may be rotated to adjust fine focus on the target object being observed. See **Focusing the Objective Lens** below.

FOCUSING THE OBJECTIVE LENS

To adjust the focus on the target object:

1. Rotate the objective lens focus knob **(2)** left or right.

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 bottom of the screen show information on the operating status of the RICO 3.



1 **Magnification:** Shows the real-time amplification in increments of 0.1×.

2 **Ultra-Clear:** Shows the Ultra-Clear status, on or off .

3 **Wi-Fi Status:** Shows the Wi-Fi status, on or off .

4 **Time:** Shows the current time in 24-hour format.

5 **Battery Status and Charge:** Shows the battery status. A charging icon appears when the battery is charging.

6 **Non-Uniformity Correction (NUC) Mode:** Shows the icon for the selected non-uniformity correction (NUC) mode, automatic or manual . A countdown timer icon will appear when 5 seconds remain until an automatic NUC.

7 **Microphone:** Shows the Microphone status, on or off .

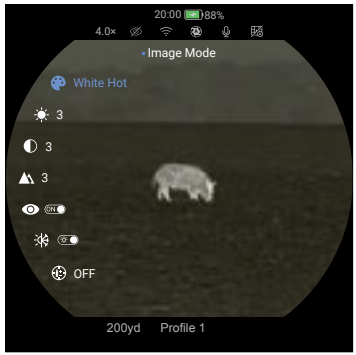
8 **Recoil Activated Video:** Shows the RAV status, on or off .

9 **Zeroing Distance:** Shows the set zero distance.

10 **Zeroing Profile:** Shows the selected zeroing profile.

Using the Quick Menu

In the quick menu, the following commonly used settings can be quickly adjusted: the color palette, image brightness, image contrast, image sharpness, Ultra-clear mode, image hue, and preset ballistic calculation distance.



- On the home screen, short press the **Menu [M] button** to enter the quick menu.
- Short press the **Up [▲]** or **Down [▼] button** to move up and down through the quick menu options. The selected menu option turns from white to blue to mark the cursor location.
- Short press the **Menu [M] button** to toggle through the parameters for the selected menu option.
- Long press the **Menu [M] button** to save any changes and return to the home screen.
- After 10 seconds of inactivity, the system will automatically save any changes and return to the home screen.

NOTE: See **Quick Menu Options and Descriptions** on page 28 for detailed information about the quick menu options.

Navigating the Main Menu



- From the home screen, long press the **Menu** [M] **button** to enter the main menu.
- Short press the **Up** [▲] or **Down** [▼] **button** to move up and down through the menu options. The selected menu option turns from white to blue to mark the cursor location.
- Short press the **Menu** [M] **button** to:
  - Toggle through the parameters for the selected menu option; **OR**
  - Enter the submenu; **OR**
  - Confirm submenu changes and return to the previous menu.
- Long press the **Menu** [M] **button** to confirm any changes and return to the previous menu.
- Short press the **Power** [⏻] **button** to exit without saving.
- After 10 seconds of inactivity, the menu will automatically close, and the interface will return to the previous menu. Changes (except changes to toggle on / off menu items, such as Ultra-Clear and Wi-Fi) are not saved automatically.

NOTE: See **Main Menu Options and Descriptions** on page 31 for detailed information about the main menu options.

15. Zeroing the RICO 3

RICO 3 features a freeze zeroing method. To zero the RICO 3:

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 8, if you have not done so already.
4. Select or create a new zeroing profile. See **Reticle&Zeroing Menu > Zeroing Profile** on page 32.
5. Based on the distance to the target you wish to zero, set a zero distance to match. See **Reticle&Zeroing Menu > Zeroing** on page 33.
6. Ensure a stable platform and natural shooting position is achieved behind the rifle.
7. Load ammunition, aim, and take one good shot at the target.
8. Make your rifle safe and observe the location of impact on the target.
9. 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.
10. In the reticle zeroing interface, center the reticle on the aiming point and freeze the image view.
    a. Short press the **Down** [▼] **button** to move to the image freeze ❄ icon.
    b. Short press the **Menu** [M] **button** to freeze the image. The icon will turn from white to blue.
11. Select the axis (X or Y) along which to move the reticle.
    a. Short press the **Up/Down button** to move between **X** and **Y**. The axis turns blue to indicate the cursor position.
    b. Short press the **Menu** [M] **button** to select X or Y. The selected axis will begin flashing.
12. Adjust the X/Y position of the reticle until the reticle matches the point of impact.
    a. Use the **Up** [▲] **button** to move in the positive direction: X= Right and Y= Up.
    b. Use the **Down** [▼] **button** to move in the negative direction: X= Left and Y= Down.
    c. Upon moving the reticle, a white dot appears on the screen, representing the original position of the reticle.

13. Long press the **Menu [M] button** to save the reticle position.
14. 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.

See **Reticle&Zeroing Menu > Zeroing** on page 33.

16. Non-Uniformity Correction

A non-uniformity correction (NUC) allows a thermal imager's sensors to correct pixels and eliminate any image defects caused by pixel drift. A NUC will be performed automatically each time the RICO 3 is powered on.

The RICO 3 has two non-uniformity correction (NUC) modes, automatic **(A)** and manual **(M)**. In either mode, the user may choose to manually perform a NUC (shuttered or shutterless) at any time. Set the NUC mode in the main menu, see **Main Menu > Calibration** on page 48.

Automatic Mode

In automatic mode **(A)**, the RICO 3 will perform a shuttered NUC automatically according to the internal software algorithm. There is no need to close the objective lens cap **(1)** as the RICO 3's internal shutter covers the sensor.

When automatic mode is selected, a countdown timer icon will appear when 5 seconds remain until a NUC. The timer will appear only after the microbolometer temperature has stabilized—after approximately 10 minutes of continuous operation of the RICO 3.

NOTE: A manual NUC (see below) may be performed at any time while in Automatic **(A)** mode.

Manual Mode

In manual mode **(M)**, 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 during a shuttered NUC, as the internal shutter covers the sensor.

1. From the home screen, short press the **Power [⏻] button**.
2. The internal shutter will cover the sensor, and a shuttered non-uniformity correction (NUC) will be performed instantly.

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 **(1)**.

1. Close the objective lens cap.
2. From the home screen, short press the **Up [▲]** and **Down [▼] buttons** at the same time.
3. 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 RICO 3 is equipped with video recording and image capture. All videos and photos are automatically saved to the built-in 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 Menu > Date and Time** on page 55. Alternatively, the date and time may be synchronized in the Nocpix App.

Photography



To take a photo:

1. From the home screen, short press the **Down ▼ button**.
2. The camera icon will appear briefly in the upper-right corner of the screen to indicate a photo was taken.

NOTE: A red warning icon appears next to the camera icon in the upper-right corner of the screen when the memory storage is nearly full. Transfer video and image files to other storage media to free up space on the memory card.

Video Recording



To record video:

1. Turn on the microphone in the main menu if desired. See **Main Menu > Microphone** on page 52.
2. From the home screen, long press the **Down ▼ button** to start a video recording.
3. When the video recording starts, the recording timer, in HH:MM:SS (hour, minute, second) format, appears in the upper-right corner of the screen.
4. When recording, short press the **Down ▼ button** to take a photo.
5. Long press the **Down ▼ button** to stop and save the video recording.

Recoil Activated Video Recording

When recoil activated video is turned on in the main menu, a video is automatically recorded when a shot is taken. The RICO 3 will record 9 seconds before the shot and 81 seconds after the shot. The recoil activated video icon appears in the top status bar when RAV is turned on. The video recording timer, in HH:MM:SS (hour, minute, second) format, will appear when recoil-activated video is being recorded. See **Main Menu > Recoil Activated Video** on page 50 for instructions.

NOTES:

- When multiple shots are taken within the same 30-second period, only one video will be taken.
- When recoil activated video recording is turned on, standard video recording is unavailable.

Video and Photography Notes

- You may enter and navigate the menu during video recording.
- Photos and recorded videos are saved to the memory card as:
  - Photos: PIC_HHMMSS.jpg.
  - User-recorded videos: VID_HHMMSS.mp4
  - Recoil-activated videos: RAV_HHMMSS.mp4.
  - HHMMSS is hour, minute, second.
- The maximum duration of a recorded video file is 5 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 the Internal Memory

When the RICO 3 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 RICO 3.
2. Connect the RICO 3 to your computer via the included magnetic charging cable **(16)** or the USB-C data cable **(15)**.
3. Double-click **My Computer** on your computer desktop.
4. Double-click to open the device named **Nocpix**.
5. Double-click to open the device named **RICO3** to access the built-in memory.
    a. Recorded photos and videos are separated into folders by date, YYYYDDMM.
6. Select the desired files or folders to copy or delete.

19. Using the Nocpix App

The RICO 3 can be operated using the Nocpix App when connected to a tablet or smartphone via Wi-Fi.

Download on the App Store

GET IT ON Google Play

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 RICO 3 to Wi-Fi:
    a. Turn on the Wi-Fi. See **Main Menu > Wi-Fi** on page 32 for instructions.
    b. Open the App and tap the **Connect to Device button**. Then, tap **Connect Phone WLAN**.
    c. On the mobile device, go to **Settings > Wi-Fi**.
    d. Select the RICO 3 from the list of Wi-Fi networks. It will appear in the list as "RICO 3 XXXX_YYYYYYY" where XXXX is the model number and YYYYYYY is the device serial number.
    e. Enter the Wi-Fi password and tap the **Join button**. The default password is 12345678.
3. Operate the RICO 3 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 RICO 3 firmware.

NOTE: When a factory reset is performed, the Wi-Fi SSID and password are reset to the defaults, RICO3_XXXX_YYYYYY and 12345678. See **Settings Menu > Factory Reset** on page 58.

20. Integrated Laser Rangefinder

The RICO 3 is equipped with an integrated, precision laser rangefinder which allows the user to measure the distance to objects up to 1,600 yards away, with ±1-yard accuracy. The laser rangefinder has two rangefinding modes: continuous and single-measurement capture. Continuous rangefinding allows the user to adjust quickly to changing distances for better shot placement.



CAUTION: Do not stare directly into the laser.

The rangefinder interface has the following features:



1. **Cursor:** The rangefinder cursor appears in the center of the screen.
2. **Rangefinding Mode:** Shows the selected rangefinding mode, CONT (continuous) or SGL (single).
3. **Rangefinding Measurement:** Shows the target distance.
4. **Ballistic Calculation (Single Ranging Only):** Displays when enabled in the menu.

NOTES:

- Ballistic calculation is only available in single ranging mode; it is automatically disabled in continuous ranging mode.
- When the range exceeds the measurable distance, **----yd** is displayed.
- The rangefinder can be customized in the main menu (see **Main Menu > Laser Rangefinder** on page 43):
  - Turn the LRF reticle on/off.
  - Set LRF data to always-on or two-second display.
  - Set the LRF reticle type, color, and brightness level.
  - Turn continuous LRF mode on and off. When continuous ranging is active, the distance to the target indicated by the LRF cursor will be refreshed automatically by the rangefinder every second.
- To change the units of measurement (meters or yards), see **Settings > Unit** on page 57.

Using the rangefinder:

- **Short press the Up ▲ button:** Perform a single ranging measurement. **SGL: XXXyd** and the ballistic calculation will be displayed. When enabled, the ballistic calculation appears before the single range measurement.
- **When continuous LRF mode is enabled:**
  - Long press the **Up ▲ button** to activate continuous ranging. **CONT: XXXyd** will be displayed.
  - Long press a second time to deactivate continuous ranging.
- **When continuous LRF mode is disabled:**
  - Long press the **Up ▲ button** and move the LRF cursor to the target, then release the Up button to trigger a single ranging measurement. **SGL: XXXyd** will be displayed.

NOTE: Ballistic calculation is disabled in continuous ranging mode.

ACCURACY NOTES:

- The measurement accuracy and maximum range depend on the reflection ratio on the target surface, the angle at which the laser beam falls on the target surface, and environmental conditions. Reflectivity depends on the surface texture, color, size, and shape of the object. Typically, a glossy, bright surface will have higher reflectivity than a darker surface.
- Ranging performance can degrade in bright conditions or when ranging towards the sun.
- The measurement accuracy can be affected by fog, smog, heavy rain, snow, and other weather conditions. It can also be affected by a low battery or a dirty or smudged objective lens.
- Measuring the range to a small target is more difficult than measuring the range to a large target.

21. Digital Zoom

The RICO 3 will quickly increase the base magnification by enlarging the image digitally from 1 to 8 times (H35R and H50R) or 1 to 4 times (L35R).

To use digital zoom:

1. From the home screen, rotate the zoom lever **(7)** clockwise to zoom in or counterclockwise to zoom out on the target.
2. The real-time amplification, in increments of 0.1×, appears in the top status bar.

22. Quick Menu Options and Descriptions

1. Short press the **Menu** [M] **button** to enter the quick menu.
2. Short press the **Up/Down buttons** to move through the quick menu options. The selected option icon changes from white to blue to mark the cursor location.
3. Short press the **Menu** [M] **button** to toggle through the parameters for each menu item.
4. Long press the **Menu** [M] **button** to confirm and exit.

Quick Menu Structure:

- Image Mode, Brightness, Image Contrast, Image Sharpness, Ultra Clear, Image Hue, and Preset BC Distance.

Image Mode



Set the color palette

1. In the quick menu, **Image Mode** is selected by default.
2. Short press the **Menu** [M] **button** to toggle through the color palette options: white hot, black hot, red hot, rainbow, violet, crimson, and viridian.
3. Long press the **Menu** [M] **button** to confirm the selection and exit.

Brightness / Image Contrast / Image Sharpness



Set the screen brightness, image contrast, or image sharpness

1. In the quick menu, short press the **Up/Down buttons** to select **Brightness**, **Image Contrast**, or **Image Sharpness**.
2. Short press the **Menu** [M] **button** to toggle through levels 1 to 10.
3. Long press the **Menu** [M] **button** to confirm the selection and exit.

Ultra-clear



Turn Ultra-clear mode on or off

When Ultra-clear is turned on, the image contrast is enhanced, which is suitable for rainy, foggy, or low-contrast conditions.

1. In the quick menu, short press the **Up/Down buttons** to select **Ultra-clear**.
2. Short press the **Menu** [M] **button** to turn Ultra-clear ON or OFF.
3. The Ultra-clear status, on or off, appears in the top status bar.
4. Long press the **Menu** [M] **button** to confirm the selection and exit.

NOTE: When Ultra-clear mode is turned on and off, the RICO 3 will automatically perform a shuttered non-uniformity correction.

Image Hue



Set the image hue mode

1. In the quick menu, short press the **Up/Down buttons** to select **Image Hue**.
2. Short press the **Menu** [M] **button** to toggle between the options:
   a. **Warm (toggle ON):** Provides a softer image and reduces eye strain.
   b. **Cool (toggle OFF):** Provides increased contrast and image brightness.

3. Long press the **Menu** [M] **button** to confirm the selection and exit.

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

Preset BC Distance

Select a preset ballistic calculation distance

1. In the quick menu, short press the **Up/Down buttons** to select **Preset BC Distance**.
2. Short press the **Menu** [M] **button** to toggle through the options: OFF, 200m, 225m, 250m, 275m, and 300m.
   a. **OFF:** Disable the preset BC distance.
   b. **Preset BC distances (200m, 225m, 250m, 275m, 300m by default):** Select a preset distance to enable ballistic calculation.
3. Long press the **Menu** [M] **button** to confirm the selection and exit.





NOTES: Go to **Zeroing > BC Distance** on page 42 for information about editing the preset BC distances.

23. Main Menu Options and Descriptions

1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to move through the main menu options. The selected option changes from white to blue to mark the cursor location.
3. Short press the **Menu** [M] **button** to toggle through the parameters for each menu item.
4. Long press the **Menu** [M] **button** to confirm, or short press the **Power** [⏻] **button** to exit.

Main Menu Structure:

- **Main Menu:** Reticle&Zeroing, Laser Rangefinder, WIFI, PIP, Calibration, Motion Sensor, Gallery, Recoil Activated Video, Standby, Microphone, Pixel Defect Correction, Settings.
- **Reticle&Zeroing Menu:** Zeroing Profile, Zeroing, Reticle Type, Reticle Color, Reticle Brightness, Ballistic Calculation, BC Type, BC Color, BC Units, BC Parameter, BC Distance, Delete Profile.
- **Laser Rangefinder Menu:** LRF Reticle, Range Data, Type, Color, Brightness, Continuous LRF.
- **Settings Menu:** Date, Time, Unit, Languages, Custom, Firmware Update, Factory Reset, Info.

Menu option details, descriptions, and navigation instructions are listed in order on the following pages.

Reticle&Zeroing

Choose a zeroing profile and adjust the reticle, zeroing, and ballistic calculation settings

1. Long press the **Menu** [M] **button** to enter the main menu.
2. **Reticle&Zeroing** is selected by default. Short press the **Menu** [M] **button** to enter the Reticle&Zeroing submenu.



RETICLE&ZEROING > ZEROING PROFILE

Select or add a zeroing profile





1. In the reticle&zeroing submenu, **Profile 1** is selected by default.
2. Short press the **Menu** [M] **button** to select it and enter the submenu to begin customizing the Profile 1 options; OR
3. Add a new zeroing profile:
   a. Short press the **Up/ Down buttons** to move to the **Add** ⊕ **button**.
   b. Short press the **Menu** [M] **button** to add a new profile. The RICO 3 supports up to eight profiles (Profile 1 to Profile 8).
   c. Short press the **Menu** [M] **button** a second time to select the new profile and begin customizing it.
4. 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. Turn ballistic calculation on or off.
   d. Adjust the ballistic calculation options: color and type, units, parameters, and preset distances.
   e. Delete the selected zeroing profile.

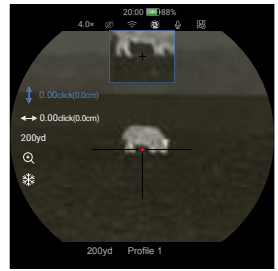
NOTES:

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

RETICLE&ZEROING > ZEROING ⊕

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





1. In the submenu for the selected zeroing profile, **Zeroing** ⊕ is selected by default.
2. Short press the **Menu** [M] **button** to select it and enter the reticle zeroing interface.
3. The zeroing interface has the following features:

1 **Y-Axis** ↕ :
Click: At 1× zoom, 1 pixel of movement = 1 click; 2× zoom = 0.5 click; 4× zoom = 0.25 click.
cm/in: Vertical point of impact change, in cm or inches (the actual distance at the current zoom level and zero distance).

2 **X-Axis** ↔ :
Click: At 1× zoom, 1 pixel of movement = 1 click; 2× zoom = 0.5 click; 4× zoom = 0.25 click.
cm/in: Horizontal point of impact change, in cm or inches (the actual distance at the current zoom level and zero distance).

3 **Zero Distance:** Select to customize the zero distance.

4 **Zoom** ⊕ : Select to change the zoom level.

5 **Freeze** ❄ : Select to freeze the image. When frozen, the icon turns from white to blue.

6 **Reticle:** Shows the new reticle position.

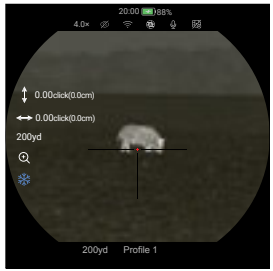
7 **White Dot:** Indicates the center of the original reticle position.

4. To edit the zero distance or use the LRF ranging distance:



   a. Short press the **Up/Down buttons** to move the cursor to the zeroing distance.
   b. Short press the **Menu** [M] **button** to begin editing it. Blue arrows appear above and below the far-left digit to mark the cursor location.
   c. Short press the **Menu** [M] **button** to switch between the three digits and the LRF range option. The blue arrows move to indicate the selection.
   d. **To manually set the zero distance:** Short press the **Up/Down buttons** to increase or decrease the value of the selected digit from 0 to 9.
   e. **To use the ranging distance:** Short press the **Up** or **Down button** with the LRF icon selected to take a rangefinding measurement and set it as the zeroing distance.
   f. To stop editing the zero distance, short press the **Menu** [M] **button** until the blue arrow editing arrows disappear.

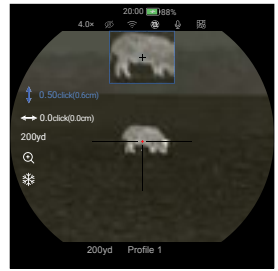
5. Center the reticle on the aiming point and freeze the image view.



   a. Short press the **Up/Down buttons** to move the cursor to the image freeze icon.
   b. Short press the **Menu** [M] **button** to freeze the image. The freeze icon will turn from white to blue. Short press the **Menu** [M] **button** a second time to unfreeze.

6. Adjust the zoom level, as needed:
   a. Short press the **Up/Down buttons** to move the cursor to the zoom icon.
   b. Short press the **Menu** [M] **button** to select it.
   c. Short press the **Up/Down buttons** to zoom in or out. The selected real-time amplification appears in the top status bar.

7. Select the axis (X or Y) along which to move the reticle:



   a. Short press the **Up/Down buttons** to move the cursor between **X** and **Y**. The axis icon will turn from white to blue to mark the cursor location.
   b. Short press the **Menu** [M] **button** to select the desired axis. The selected axis will begin flashing.

8. Adjust the X/Y position of the reticle until the reticle matches the point of impact.



   a. **X** (horizontal) is the windage and **Y** (vertical) is the elevation.
   b. Upon moving the reticle, a white dot appears onscreen, representing the original position of the reticle.
   c. Use the **Up** [▲] **button** to move in the positive direction: X= Right and Y= Up.
   d. Use the **Down** [▼] **button** to move in the negative direction: X= Left and Y= Down.
   e. Short press the **Up/Down button** to move the reticle in the corresponding direction by 1 pixel; long press to move 10 pixels.
   f. The click and cm/in parameters for the X-axis and Y-axis represent the movement of the reticle.
   NOTE: After exiting the zeroing menu, the click value is saved and the cm/in value is reset to zero.

i. **Click parameter:** Represents the pixel movement at the selected zoom level. At 1× zoom, 1 pixel of movement = 1 click; 2× zoom = 0.5 click; 4× zoom = 0.25 click.

ii. **Cm/in parameter:** Is the horizontal or vertical point of impact change at the current zoom level and zero distance:

MODEL	DISTANCE (YARDS)	ONE CLICK (INCHES)
L35R	50	0.19
	100	0.37
	200	0.74
H35R	50	0.31
	100	0.62
	200	1.23
H50R	50	0.22
	100	0.43
	200	0.86

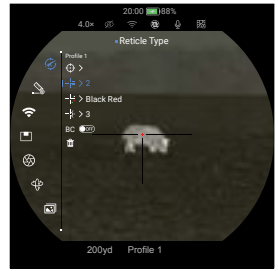
g. The distance of your X/Y adjustments will update automatically when the zero distance is changed, for example, from 100 to 200 yards.

9. Short press the **Menu** [M] **button** to save the position for the selected axis and deselect it. When deselected, the axis will stop flashing.
10. Repeat steps 7–9 to adjust the reticle position along the second axis if needed.
11. Short press the **Power** [⏻] **button** to exit the interface without saving the reticle position; **OR**
12. Long press the **Menu** [M] **button** to confirm changes.
13. A pop-up window shows the message "Do you want to keep these settings?" and two options, Yes and No. Yes is selected by default.
14. Short press the **Menu** [M] **button** to select **Yes** to save the reticle position.



15. Short press the **Up/Down buttons** to move to **No**, and short press the **Menu** [M] **button** to exit without saving.
16. 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.

RETICLE&ZEROING > RETICLE TYPE





Select the reticle type

1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **Reticle Type**.
2. Short press the **Menu** [M] **button** to enter the reticle type submenu.
3. Short press the **Up/Down buttons** to move through reticle types, 1 to 7 (see below). The reticle changes as the cursor moves through the reticle types. A custom reticle is also available for purchase in the Nocpix App.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

Reticle Types



1 2 3 4 5 6 7

RETICLE&ZEROING > RETICLE COLOR

Select the reticle color



1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **Reticle Color**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through color options: black red, black green, white red, white green, black white, white black, red, green, or yellow. The reticle color changes as the cursor moves through the color options.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

NOTE: For two-color reticles, the first color is the color of the stadia lines, and the second is the center cross color.

RETICLE&ZEROING > RETICLE BRIGHTNESS

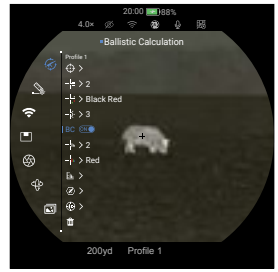
Select the reticle brightness



1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **Reticle Brightness**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to adjust the brightness from 1 to 6. The reticle brightness changes as the cursor moves through the options.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

RETICLE&ZEROING > BALLISTIC CALCULATION BC

Turn ballistic calculation on or off



1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **Ballistic Calculation BC**.
2. Short press the **Menu M button** to turn the ballistic calculation toggle ON or OFF. When ballistic calculation is enabled:
   a. When a single ranging measurement is taken, ballistic calculation data (MOA/mil/cm/inch) will display below the range distance, and the reticle will display the predicted impact-point position.
   b. The following ballistic calculation options will appear in the ballistic calculation submenu: BC type, BC color, BC units, BC parameter, and BC distance.
3. Long press the **Menu M button** to confirm the selection and return to the previous menu.

RETICLE&ZEROING > BC TYPE

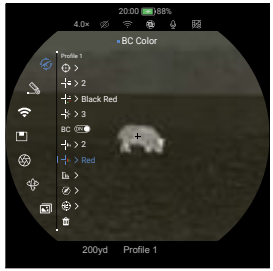
Set the reticle type for the suggested point of aim



1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **BC Type**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the options: ×, +, ●, • •●• •, and Move Reticle.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

NOTE: When the BC type is set to Move Reticle, the RICO 3 will automatically move the original reticle to the suggested point of aim.

RETICLE&ZEROING > BC COLOR



Set the reticle color for the suggested point of aim

1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **BC Color**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the options: blue, green, red, white, and black.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

RETICLE&ZEROING > BC UNITS





Set the units of measurement for ballistic calculation

1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **BC Units**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the unit toggles.
4. Short press the **Menu** [M] **button** to turn the unit toggles ON or OFF:
   a. Set the angular units to **MOA** or **mil**; only one can be turned on.
   b. Set the linear units to **cm** or **inches**; only one can be turned on, but both can be turned off.
5. Long press the **Menu** [M] **button** to confirm changes and return to the previous menu.

RETICLE&ZEROING > BC PARAMETER





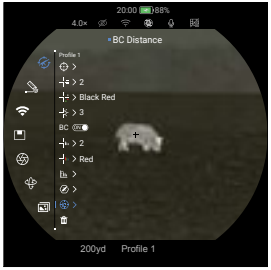
Set parameters for bullet, rifle scope, and weather conditions

1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **BC Parameter**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move to a parameter, and short press the **Menu** [M] **button** to begin editing it:
   a. When editing non-numerical parameters, such as ballistic profile, short press the **Menu** [M] **button** to toggle through the options.
   b. When editing numerical values:
      i. Blue arrows appear above and below the far-left digit to mark the cursor location.
      ii. Short press the **Up/Down buttons** to increase or decrease the selected digit from 0 to 9.
      iii. Short press the **Menu** [M] **button** to switch between the digits. The blue arrows move to indicate the selected digit.
   c. Short press the **Power** [⏻] **button** to exit without saving; **OR**
   d. Long press the **Menu** [M] **button** to confirm and return.
4. When all parameters have been edited:
   a. Short press the **Power** [⏻] **button** to exit the parameters interface without saving; **OR**
   b. Long press the **Menu** [M] **button** to confirm all parameter changes and return to the previous menu.

NOTES: The ballistic parameters on this screen can also be adjusted in the Nocpix App.

RETICLE&ZEROING > BC DISTANCE

Edit the default preset ballistic calculation distances that appear in the quick menu (200m, 225m, 250m, 275m, and 300m)





1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **BC Distance**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move to a BC distance, and short press the **Menu** [M] **button** to begin editing it.
4. Blue arrows appear above and below the far-left digit to mark the cursor location.
5. Short press the **Menu** [M] **button** to switch between the three digits and the LRF range option. The blue arrows move to indicate the selection.
6. **To manually edit the BC distance:** Short press the **Up/Down buttons** to increase or decrease the value of the selected digit from 0 to 9.
7. **To use the ranging distance:** Short press the **Up** or **Down button** with the LRF icon selected to take a rangefinding measurement and set it as the BC distance.
8. Long press the **Menu** [M] **button** to save the changes and return to distance selection submenu.
9. Long press the **Menu** [M] **button** a second time to return to the previous menu.

RETICLE&ZEROING > DELETE

Delete the selected zeroing profile



1. In the reticle&zeroing submenu, short press the **Up/Down buttons** to select **Delete**.
2. Short press the **Menu** [M] **button** to delete the selected zeroing profile.
3. A pop-up window shows the message "Do you want to delete the profile?" and two options, No and Yes.
4. Short press the **Menu** [M] **button** to select **Yes** to delete the zeroing profile and return to the previous menu; **OR**
5. Short press the **Up/Down buttons** to select **No**, and short press the **Menu** [M] **button** to return to the previous menu without deleting the zeroing profile.

Laser Rangefinder

Customize the rangefinder cursor and turn continuous LRF on or off



1. In the main menu, short press the **Up/Down buttons** to select **Laser Rangefinder**.
2. Short press the **Menu** [M] **button** to enter the submenu.

LASER RANGEFINDER > LRF RETICLE

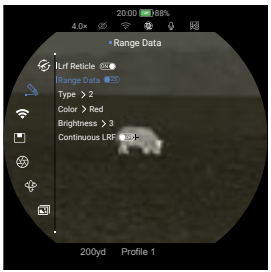
Turn the rangefinding reticle on or off



1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select the **LRF Reticle toggle**.
2. Short press the **Menu** [M] **button** to turn the LRF reticle toggle ON or OFF.
3. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

LASER RANGEFINDER > RANGE DATA

Set how long single rangefinding data stays on the screen



Set single rangefinding data to "always on" or to hide after 2 seconds.

1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select the **Range Data toggle**.
2. Short press the **Menu** [M] **button** to toggle between 2 seconds and ON.
3. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

LASER RANGEFINDER > TYPE

Select the LRF reticle type



1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select **Type**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through LRF reticle type options: ⛶, ⌖, ●, and ○.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

LASER RANGEFINDER > COLOR

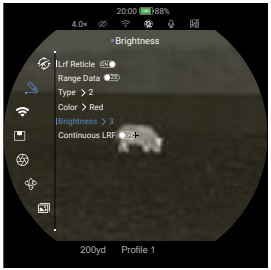
Select the LRF reticle color



1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select **Color**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through color options: blue, green, red, white, black, and yellow.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

LASER RANGEFINDER > BRIGHTNESS

Set the LRF reticle brightness



1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select **Brightness**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to select a brightness level, from 1 to 6.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

LASER RANGEFINDER > CONTINUOUS LRF

Turn continuous LRF mode on or off



1. In the laser rangefinder submenu, short press the **Up/Down buttons** to select the **Continuous LRF toggle**.
2. Short press the **Menu** [M] **button** to toggle Continuous LRF ON or OFF.
3. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

WIFI

Turn Wi-Fi on or off



1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **WIFI**.
3. Short press the **Menu** [M] **button** to toggle Wi-Fi ON or OFF. The Wi-Fi status, on or off, appears in the status bar.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

PIP

Turn the picture-in-picture window on or off



1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **PIP**.
3. Short press the **Menu** [M] **button** to toggle the PIP window ON or OFF. When turned on, the PIP window appears at the top of the screen and displays a 2× zoomed image.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

Calibration



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

1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Calibration**.
3. Short press the **Menu** [M] **button** to toggle between the A (automatic) and M (manual) non-uniformity correction (NUC) mode. The selected NUC mode, A or M, appears in the status bar.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

Motion Sensor



Turn the motion sensor on or off

1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Motion Sensor**.
3. Short press the **Menu** [M] **button** to toggle the motion sensor ON or OFF. When on, the tilt angle appears on the left side of the screen and the pitch angle appears on the right side of the screen.
4. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

NOTE: The tilt angle is not shown in the figure above because it is hidden by the menu.

Gallery







View photos and videos saved to the device

1. In the main menu, short press the **Up/Down buttons** to select **Gallery**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the multimedia folders and files.
   a. Folders are named by date in YYYYMMDD (year/month/day) format, and images and videos are named in HHMMSS format (hour/minute/second).
   b. Folders and files are ordered from newest to oldest.
   c. As the cursor moves up and down through the files in a folder, a thumbnail of the selected file appears on the right side of the screen.
4. Short press the **Menu** [M] **button** to enter a folder or view an image or video file in full screen.
   a. Short press the **Menu** [M] **button** to play or pause videos.
   b. Short press the **Up/Down buttons** to fast forward and rewind videos.
5. Long press the **Menu** [M] **button** to return to the previous menu level.

Recoil



Turn recoil activated video (RAV) on or off and set recoil sensitivity

1. In the main menu, short press the **Up/Down buttons** to select **Recoil** to enter the submenu.

RECOIL > RAV

Turn RAV on or off



1. In the recoil submenu, short press the **Menu M button** a second time to turn the RAV toggle ON or OFF.
   a. The RAV status, on or off, appears in the status bar.
   b. The video recording timer, in HH:MM:SS (hour, minute, second) format, will appear next to the RAV icon when video is recording; the rifle scope will record 9 seconds before the shot and 81 seconds after the shot.
2. Long press the **Menu M button** to confirm the selection and return to the previous menu.

RECOIL > RECOIL SENSITIVITY

To adjust the recoil sensitivity



1. In the recoil submenu, short press the **Up/Down buttons** to move to **Recoil Sensitivity**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to toggle through the sensitivity levels, 1 to 6.
   a. **Smaller values:** It is easier to trigger the recoil recording, which is suitable for a smaller bullet.
   b. **Larger values:** It is more difficult to trigger the recoil recording, which is suitable for a larger bullet.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

NOTES:

- When multiple shots are taken within the same 30-second period, only one video is recorded.
- When recoil activated video recording is turned on, standard video recording is unavailable.

Standby



Turn on automatic standby mode

The RICO 3 may be set to enter standby mode automatically to conserve battery.

1. Long press the **Menu M button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Standby**.
3. Short press the **Menu M button** to toggle auto standby ON or OFF. When turned on, the RICO 3 will automatically enter standby when it is tilted down more than 70°. When tilted up less than 70°, the device will wake automatically.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

NOTE: When auto standby is turned off, the rifle scope will operate until the batteries run out.

Microphone



Turn the microphone on or off

1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Microphone** .
3. Short press the **Menu** [M] **button** to turn the microphone ON or OFF.
4. The microphone status, on or off , appears in the status bar.
5. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

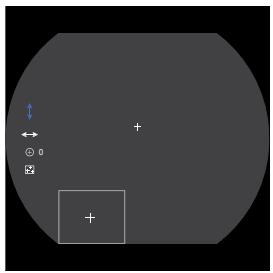
Pixel Defect Correction



Correct defective pixels

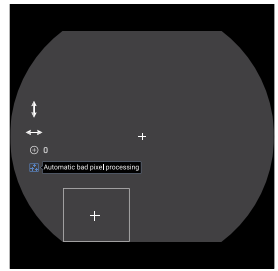
Defective pixels are pixels that do not change correctly compared to the other image pixels—they are either brighter or darker than surrounding pixels. The RICO 3 has a tool that corrects defective pixels on the sensor using its internal software.

1. Long press the **Menu** [M] **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Pixel Defect Correction** .
3. Short press the **Menu** [M] **button** to enter the pixel correction interface.
4. The interface has the following features:



   1 **Y-Axis ↕ Button:** Select to move the cursor vertically.
   2 **X-Axis ↔ Button:** Select to move the cursor horizontally.
   3 **Add ⊕ Button:** Select to add a defective pixel to the "to be corrected" list.
   4 **Automatic Pixel Correction Button:** Select to correct all defective pixels automatically.
   5 **Pixel Cursor ┼:** Appears in the center of the screen in place of the reticle. Move the cursor to the position of the defective pixel.
   6 **PIP Window:** Appears in the lower-left corner.

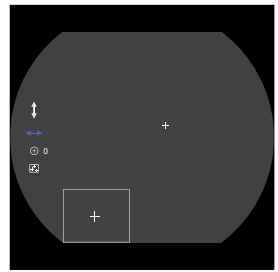
To auto-correct defective pixels:



1. Short press the **Up/Down buttons** to move to the automatic pixel correction button.
2. Short press the **Menu** [M] **button** to correct all defective pixels automatically.

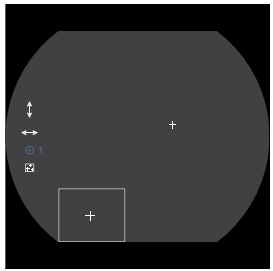
NOTE: If the algorithm fails to locate all defective pixels, it may be necessary to manually correct additional pixels.

To manually select and correct defective pixels:



1. Select the axis (X or Y) along which to move the cursor:
   a. Short press the **Up/Down buttons** to move between **X** and **Y**. The axis icon will turn from white to blue to mark the cursor location.
   b. Short press the **Menu** [M] **button** to select X or Y. The selected axis will begin flashing.

2. Move the cursor along the selected axis to the location of the defective pixel:
    a. Use the **Up** ▲ **button** to move in the positive direction: X= Right and Y= Up.
    b. Use the **Down** ▼ **button** to move in the negative direction: X= Left and Y= Down.
    c. Short press the **Up/Down buttons** to move the cursor in the corresponding direction by 1 pixel; long press to move 10 pixels.
3. Short press the **Menu** M **button** to save the position for the selected axis and deselect it. When deselected, the axis will stop flashing.
4. Move to and select the second axis and adjust the cursor position, as needed.
5. Add the pixel to the "to be corrected" list:



    a. With the cursor in position, short press the **Menu** M **button** to deselect the axis of movement.
    b. Press the **Up/Down buttons** to move to the add ⊕ icon.
    c. Short press the **Menu** M **button** to add the pixel. The number of pixels to the right of the add icon will increase to indicate that one pixel has been added to the list.
    d. If the defective pixel has been added in error, short press the **Menu** M **button** a second time from the same X/Y coordinates (do not move the cursor) to remove the pixel from the "to be corrected" list. The number of pixels shown to the right of the add icon will decrease to indicate the pixel has been removed.
6. Repeat steps 1–5 to add additional defective pixels as needed.
7. Short press the **Power** ⏻ **button** to exit the interface without saving; **OR**
8. When all defective pixels have been added to the list, long press the **Menu** M **button** to confirm changes.
9. A pop-up window shows the message "Do you want to keep these settings?" and two options, Yes and No.
10. Short press the **Menu** M **button** to select **Yes** to save.
11. Short press the **Up/Down buttons** to move to **No**, and short press the **Menu** M **button** to exit without saving.

Settings ⚙



Adjust the general settings

1. Long press the **Menu** M **button** to enter the main menu.
2. Short press the **Up/Down buttons** to select **Settings** ⚙.
3. Short press the **Menu** M **button** to enter the settings submenu.

SETTINGS > DATE 📅



Set the date

1. In the settings submenu, short press the **Up/Down buttons** to select **Date** 📅.
2. Short press the **Menu** M **button** to edit the date. Blue arrows appear above and below the year digit. The date is displayed in YYYY.MM.DD format.
3. Short press the **Up/Down buttons** to select the correct value for each digit (year, month, and day).
4. Short press the **Menu** M **button** to switch between digits. The blue arrows move to indicate the selected digit.
5. Long press the **Menu** M **button** to save the date and return to the previous menu.

SETTINGS > TIME



Set the time

1. In the settings submenu, short press the **Up/Down buttons** to select **Time**.
2. Short press the **Menu M button** to edit the time. Blue arrows appear above and below the hour digit. The time is displayed in HH.MM, in 24-hour format.
3. Short press the **Up/Down buttons** to select the correct value for each digit (hour and minute).
4. Short press the **Menu M button** to switch between digits. The blue arrows move to indicate the selected digit.
5. Long press the **Menu M button** to save the time and return to the previous menu.
6. The time in the status bar updates to the set time.

SETTINGS > LANGUAGES



Select the languages

1. In the settings submenu, short press the **Up/Down buttons** to select **Languages**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the language options.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

SETTINGS > UNITS



Set the units of measurement

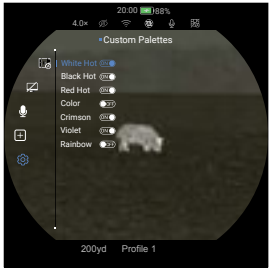
1. In the settings submenu, short press the **Up/Down buttons** to select **Units**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through unit options: yards and meters. The zero distance in the bottom status bar is updated with the selected units.
4. Long press the **Menu M button** to confirm the selection and return to the previous menu.

SETTINGS > CUSTOM PALETTES



Customize the color palettes that appear in the quick menu, so that only frequently used colors appear

1. In the settings submenu, short press the **Up/Down buttons** to select **Custom Palettes**.
2. Short press the **Menu M button** to enter the submenu.
3. Short press the **Up/Down buttons** to move through the toggles for the available color palettes: White Hot, Black Hot, Red Hot, Color, Crimson, Violet, and Rainbow.
4. Short press the **Menu M button** to turn each color palette toggle on or off. Colors set to off will not appear in the quick menu. At least one color palette must stay on.



5. Long press the **Menu** [M] **button** to confirm the selection and return to the previous menu.

SETTINGS > FIRMWARE UPDATE

Update the firmware



1. In the settings submenu, short press the **Up/Down buttons** to select **Firmware Update**.
2. Short press the **Menu** [M] **button** to check for firmware updates on the internal storage.

NOTE: A firmware update can also be performed in the Nocpix App.

SETTINGS > FACTORY RESET

Restore factory default settings



1. In the settings submenu, short press the **Up/Down buttons** to select **Factory Reset**.
2. Short press the **Menu** [M] **button** to enter the factory reset submenu.
3. Two options, Yes and No, appear; Yes will restore factory settings and No will cancel the operation. No is selected by default.
4. Short press the **Menu** [M] **button** to select **Yes** to confirm the factory reset. The screen will go dark and the factory reset will begin after a brief pause. The RICO 3 will reboot automatically; **OR**
5. Short press the **Up/Down buttons** to select **No** and short press the **Menu** [M] **button** to confirm cancellation of the factory reset and return to the submenu.

NOTES: A factory reset cannot be undone.

SETTINGS > INFO

Show device information



1. In the settings submenu, short press the **Up/Down buttons** to select **Info**.
2. Short press the **Menu** [M] **button** to enter the submenu.
3. The info submenu will display the following information about the RICO 3: model, boot, hardware, and software version, part and serial number, and FCC ID.
4. Long press the **Menu** [M] **button** to return to the previous menu.

24. Basic Inspection

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

- The rifle scope 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 internal battery pack should be fully charged.
- The control buttons should be in working order.

25. Basic Maintenance

Always replace the objective lens cap **(1)** 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 rifle scope 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.

26. 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 RICO 3 rifle scope at irayusa.com/register.

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.

27. FCC Statement

FCC ID: 2BHFB-RICO-00

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. To comply with RF exposure requirements, a minimum separation distance of 0cm must be maintained between the user's body and the handset, including the antenna. 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.

28. General Troubleshooting

The troubleshooting table below lists issues that may occur when operating the RICO 3. 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.

ISSUE	POSSIBLE CAUSES	TROUBLESHOOTING STEPS
The RICO 3 will not turn on.	The NBP-8 battery is very low or completely discharged.	Charge the battery pack.
The RICO 3 can not connect to a computer or external power supply.	External power supply has completely discharged.	Check the external power supply and charge it if necessary.
	Computer is turned off.	Power on the computer.
	USB-C or magnetic charging cable is damaged.	Replace the cable.
The RICO 3 can not connect to the mobile device (smartphone or tablet).	Mobile device's Wi-Fi is not turned on.	On the mobile device, go to **Settings** > **Wi-Fi** to turn on Wi-Fi.
	Wrong Wi-Fi password entered.	On the mobile device, go to **Settings** > **Wi-Fi** and enter the correct password. The default password is 12345678.
	Too many Wi-Fi signals nearby, which may cause interference.	Move the RICO 3 and mobile device to an area with no or fewer Wi-Fi signals.
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.	· Try again when the Wi-Fi signal is stable. · Move the RICO 3 closer to the Wi-Fi signal.
Image is blurry, background is uneven, or vertical lines or artifacts are present.	Non-uniformity correction is required.	Perform a non-uniformity correction. See **Non-uniformity Correction** on page 20 and See **Using the Quick Menu** on page 17.
The image is too dark.	Screen brightness level is too low.	Adjust the brightness in the quick menu. See **Quick Menu** > **Brightness** on page 28.
The GUI is clear, but the image is blurry.	The lens is not focused.	· Adjust the focus on the target by rotating the objective focus knob **(2)**. · Adjust the image sharpness in the quick menu. See **Using the Quick Menu** on page 17.
	There is dust or ice on the interior or exterior optical surfaces of the lens.	· Wipe the external optical surface with the included microfiber lens cloth.
	There is condensation on the interior or exterior optical surfaces of the lens.	· Wipe the external optical surface with the included microfiber lens cloth. · Allow the RICO 3 to dry by leaving it in a warm, dry environment for at least 4 hours.

ISSUE	POSSIBLE CAUSES	TROUBLESHOOTING STEPS
The aiming reticle shifts after firing rounds.	The RICO 3 is not mounted securely or the mount is not secured on the RICO 3.	• Check that the RICO 3 has been securely mounted. • Make sure you are using the same brand, type, and weight of the bullets as when the RICO 3 and weapon were initially zeroed. • If the RICO 3 was zeroed in different environmental conditions, a slight shift of the zero is possible.
Observed target disappears.	Observing the target through glass.	Remove any glass windows from the field of view.
The RICO 3 will not focus.	Image settings are not optimal for the current environmental conditions or the object being observed.	• 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 knob **(2)**. • Adjust the image sharpness. See **Quick Menu > Sharpness** on page 28. • Turn on Ultra-Clear mode. See **Quick Menu > Ultra-Clear** on page 29.
Image quality is low or the detection range is reduced.	Environmental conditions, such as snow, rain, humidity, and fog.	Turn on Ultra-Clear mode. See **Quick Menu > Ultra-Clear** on page 29.
When the RICO 3 is used in low-temperature conditions, the image quality of the surroundings is worse than in warm-temperature conditions.	Environmental conditions.	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.

29. Notes



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