

20. DIGITAL ZOOM

The RICO MICRO V2 can increase the base magnification from 1× by enlarging the image from 1 to 4 times digitally.

To adjust the digital zoom:

1. From the home screen, short press the **Power**  **Button** to toggle through the digital zoom levels, 1×, 2×, and 4×. 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 RICO MICRO V2 comes with a wireless remote control, allowing access to the control buttons from your rifle stock or tripod. Consult the instruction sheet in the remote control pouch for setup and use instructions.



WARNING: This device uses or contains a lithium button cell battery. Keep out of reach of children. If swallowed or placed inside any part of the body, seek immediate medical attention. Lithium batteries can cause severe or fatal injuries within 2 hours.

22. ADJUSTING SCREEN POSITION

In clip-on and helmet modes, the display size is reduced to be in unity (1× for clip-on mode; 1.1× for helmet mode). On your first use, it may be necessary to adjust the X/Y of the screen to collimate the MICRO V2 to your reticle. If your POI and POA differ in clip-on mode, adjust the screen as you would adjust the reticle in the zeroing section.

To adjust the screen position in helmet and clip-on modes:

1. From the home screen, long press the **Power**  and **Menu**  **Buttons** at the same time to enter the screen-position adjustment interface.



2. The screen-position adjustment interface has the following features:
 - 1 **X**: Move the screen along X-Axis.
 - 2 **Y**: Move the screen along Y-Axis.
 - 3 **✓**: Save and return to the menu.
 - 4 **✕**: Exit the screen without saving.
3. To use the interface:
 - a. Short press the **Photo**  or **Power**  **Button** to move left or right through the interface. The cursor position is indicated by a white outline around the button.
 - b. Short press the **Menu**  **Button** to select a button. The selection is indicated by a blue outline around the button.
 - c. Long press the **Menu**  **Button** to deselect the button.
4. With X or Y selected, adjust the X/Y position of the screen:
 - a. Use the **Photo**  **Button** to move in the positive direction: X= Right and Y= Up.
 - b. Use the **Power**  **Button** to move in the negative direction: X= Left and Y= Down.
 - c. Short press to move the reticle in the corresponding direction by 1 pixel; long press to move 10 pixels.
5. Select the **✓** **Button** to save the screen position and return to the home screen.
6. Select the **✕** **Button** to exit without saving and return to the home screen.

23. MENU OPTIONS & DESCRIPTIONS

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. Please see the list of available menu items for each mode below.

STANDALONE/HANDHELD MODE MENU

Menu and submenu options, from left to right are:

- **Main Menu:** Scene Mode, Polarity, Image Brightness, Image Contrast, Screen Brightness, Reticle, Advanced Menu.
 - **Reticle Menu:** Reticle Style, Reticle Brightness, Reticle Color, Zero Profile, Reticle Zeroing.
 - **Advanced Menu:** Wi-Fi, Bluetooth, Microphone, Recoil Activated Video, Calibration, Unit, Zeroing, Compass, Compass Calibration, Pixel Defect Correction, Formatting, Date and Time, Factory Reset, Status Auto Hiding, Image Hue, Info.

HELMET MODE MENU

Menu and submenu options, from left to right are:

- **Main Menu:** Scene Mode, Polarity, Image Brightness, Image Contrast, Screen Brightness, Advanced Menu.
 - **Advanced Menu:** Wi-Fi, Bluetooth, Microphone, Calibration, Compass, Compass Calibration, Pixel Defect Correction, Formatting, Date and Time, Factory Reset, Status Auto Hiding, Image Hue, Info.

CLIP-ON MODE MENU

Menu and submenu options, from left to right are:

- **Main Menu:** Scene Mode, Polarity, Screen Brightness, Image Brightness, Image Contrast, Advanced Menu
 - **Advanced Menu:** Wi-Fi, Bluetooth, Microphone, Recoil Activated Video, Calibration, Factory Reset

Scene Mode

Change the working mode of the imager to standalone/handheld, helmet, or clip-on

1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the scene mode  menu item.
4. Short press the **Photo**  or **Power**  **Button** to move through the three mode options, standalone/handheld , helmet , and clip-on. The screen briefly goes black when the system switches to the new mode. The icon for the selected mode appears on the left side of the status bar.
5. Long press the **Menu**  **Button** to save the selection and return.



Polarity

Change the color palette

1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the polarity  menu item.
4. Short press the **Photo**  or **Power**  **Button** to move through the color palette options, white hot , black hot , red hot , or color , appears on the left side of the status bar.
5. Long press the **Menu**  to save the selection and return.
6. The selected color palette, white hot , black hot , red hot , or color , appears on the left side of the status bar.



Image Brightness

Adjust image brightness

1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the image brightness  menu item.
4. Short press the **Photo**  or **Power**  **Button** to move through the image brightness options, 1–10.
5. Long press the **Menu**  **Button** to save the selection and return.

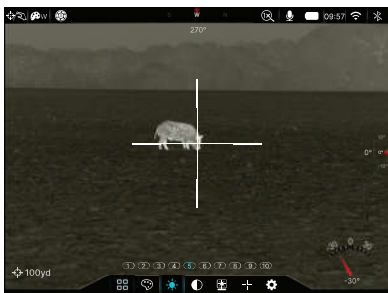


Image Contrast

Adjust the image contrast

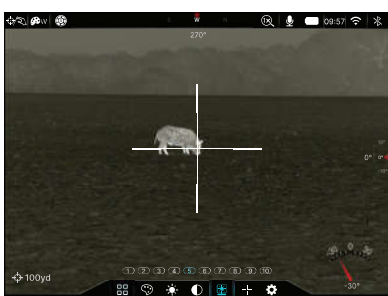
1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the image contrast  menu item.
4. Short press the **Photo**  or **Power**  **Button** to move through the contrast options, 1–10.
5. Long press the **Menu**  **Button** to save the selection and return.



Screen Brightness

Adjust screen brightness

1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the screen brightness  menu item.



4. Short press the **Photo**  or **Power**  **Button** to move through the screen brightness options, 1–10.
5. Long press the **Menu**  **Button** to save the selection and return.

Reticle

Change the reticle settings

1. Short press the **Menu**  **Button** to enter the main menu.
2. Short press the **Photo**  or **Power**  **Button** to move through the menu.
3. Short press the **Menu**  **Button** to select the reticle  menu item and enter the submenu.

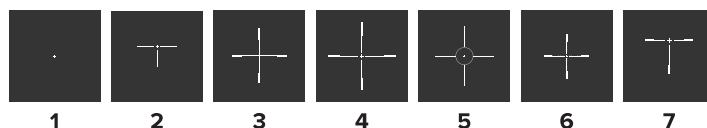
RETICLE MENU > RETICLE TYPE

Change the reticle type

1. In the reticle menu, short press the **Photo**  or **Power**  **Button** to move through the menu.
2. Short press the **Menu**  **Button** to select the reticle type  menu item.
3. Short press the **Photo**  or **Power**  **Button** to move through the type options, 0–7. Select style 0 to turn off the reticle. See **Reticle Types** below.
4. Long press the **Menu**  **Button** to save the selection and return.



Reticle Type



RETICLE MENU > RETICLE BRIGHTNESS

Adjust the reticle brightness

1. In the reticle menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the reticle brightness  menu item.
3. Short press the **Photo**  or **Power**  Button to move through the brightness options, 0–6. 0 is completely transparent (not visible).
4. Long press the **Menu**  Button to save the selection and return.



RETICLE MENU > RETICLE COLOR

Change the reticle color

1. In the reticle menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the reticle color  menu item.
3. Short press the **Photo**  or **Power**  Button to move through the color options, white, black, red, and green.
4. Long press the **Menu**  Button to save the selection and return.



RETICLE MENU > ZEROING PROFILE

Select the zeroing profile

1. In the reticle menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the zeroing profile  menu item.
3. Short press the **Photo**  or **Power**  Button to move through the options, A, B, and C.
4. Long press the **Menu**  Button to save the selection and return.



RETICLE MENU > RETICLE ZEROING

Select a zero distance to customize it or adjust the reticle position

The MICRO V2 supports custom zero distances of 1 to 999 yards or 1 to 999 meters.

1. Select a zeroing profile, A, B, or C, before beginning. See the previous section.
2. In the reticle menu, short press the **Photo**  or **Power**  Button to move through the menu.
3. Short press the **Menu**  Button to select the reticle zeroing  menu item.
4. Short press the **Photo**  or **Power**  Button to move through the zero distance options.
5. Short press the **Menu**  Button to select a zero distance.
6. In the submenu for the selected zero distance, you may:
 - a. Enter the reticle zeroing interface to adjust the X/Y position of the reticle. See **Adjust the Reticle Position** below.
 - b. Customize the selected preset zero distance. See **Customize the Zero Distance** on page 35.



Adjust the Reticle Position

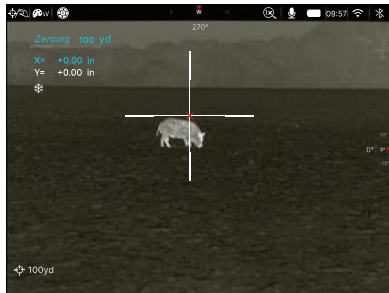
In the reticle zeroing interface, the X/Y position of the reticle may be adjusted to match the point of impact.

1. With the desired zero distance selected, short press the **Menu**  Button a second time to select the reticle zeroing  icon and enter the zeroing interface.
2. The interface has the following features:
 - 1 **X**: Horizontal point of impact change (in cm or in).
 - 2 **Y**: Vertical point of impact change (in cm or in).
 - 3 **Freeze Icon**: Appears when the image is frozen.
 - 4 **Reticle**: Shows the new reticle position.



NOTE: The red “X” indicates the point of impact. It is shown in the figure for illustration purposes, and is not an interface element.

3. Center the reticle on the aiming point and long press the **Photo**  and **Menu**  Buttons to freeze the image. The freeze  icon will appear below the X/Y coordinates.



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

- a. Short press the **Photo**  or **Power**  Button to move between X and Y. Blue text indicates the cursor location.



- b. Short press the **Menu**  Button to select the desired axis.

5. 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. Use the **Photo**  Button to move in the positive direction: X= Right and Y= Up.
- c. Use the **Power**  Button to move in the negative direction: X= Left and Y= Down.
- d. Short press to move the reticle in the corresponding direction by 1 pixel; long press to move 10 pixels.
- e. When adjusting your zero at a distance of 50 yards, a short press will change the impact point by 0.38" (RH25 V2) and 0.23" (RL25 V2) as shown in the X and Y coordinate displays. At 100 yards the same short press is 0.77" (RH25 V2) and 0.46" (RL25 V2), and 1.54" (RH25 V2) and 0.92" (RL25 V2) at 200 yards.
- f. Changing your zero distance will change the distance of your X/Y adjustments automatically. If the selected zero distance has a correction of 0.77" at 100 yards, it will automatically change to 1.54" if you change the zero distance to 200 yards.

6. Short press the **Menu**  Button to save the position for the selected axis and deselect it. When deselected, the axis will change from blue to white.

7. Repeat steps 4–6 to adjust the reticle position along the second axis if needed.
8. Short press the **Power**  Button to exit the interface without saving the new reticle position; **OR**
9. Long press the **Menu**  Button to save the reticle position for both axes and return to the home screen.
10. 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.

Customize the Zero Distance 000yd

1. With the desired zero distance selected, short press the **Photo**  or **Power**  Button to move to the customize zero distance 000yd icon and short press the **Menu**  Button to edit the zero distance.



2. Short press the **Photo**  or **Power**  Button to increase and decrease the selected digit, from 0–9. A blue arrow appears above the selected digit.
3. Short press the **Menu**  Button to save changes and move to the next digit.
4. Long press the **Menu**  Button to save the custom zero distance.
5. Long press the **Menu**  Button to save all changes and return.

Advanced Menu

Change the advanced settings

1. Short press the **Menu**  Button to enter the main menu.
2. Short press the **Photo**  or **Power**  Button to move through the menu.
3. Short press the **Menu**  Button to select the advanced menu  item and enter the submenu.



ADVANCED MENU > WI-FI

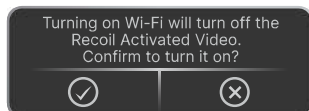
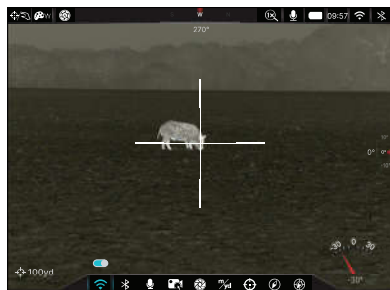
Turn Wi-Fi on / off

Turn Wi-Fi on to manipulate the MICRO V2 via the InfiRay Outdoor 2.0 App.

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the Wi-Fi  menu item.
3. Short press the **Photo**  or **Power**  Button to turn Wi-Fi on or off. The Wi-Fi status, on  or off , appears in the status bar.
4. Long press the **Menu**  Button to save the selection and return.

NOTE:

- Turn on Wi-Fi will turn off the recoil activated video.

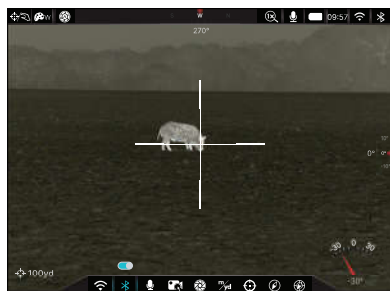


ADVANCED MENU > BLUETOOTH

Turn Bluetooth on / off

Turn Bluetooth on to connect to the Bluetooth remote control.

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the Bluetooth  menu item.
3. Short press the **Photo**  or **Power**  Button to turn Bluetooth on or off. The Bluetooth status, on  or off , appears in the status bar.
4. Long press the **Menu**  Button to save the selection and return.

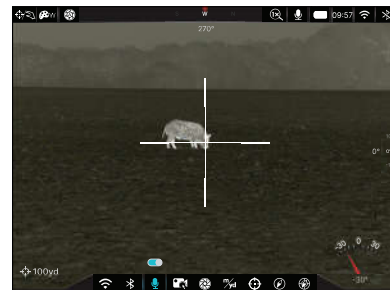


ADVANCED MENU > MICROPHONE

Turn the microphone on / off

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the microphone  menu item.

3. Short press the **Photo**  or **Power**  Button to turn the microphone on or off. The microphone status, on  or off , appears in the status bar.
4. Long press the **Menu**  Button to save the selection and return.



ADVANCED MENU > RECOIL ACTIVATED VIDEO

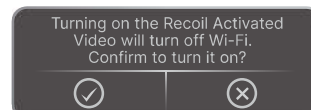
Turn recoil activated video on / off

When recoil activated video is turned on, the rifle scope will record 20 seconds before and after a shot.

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the recoil activated  menu item.
3. Short press the **Photo**  or **Power**  Button to turn recoil activated video on or off.
4. When turned on, the RAV  icon appears on the left side of the screen.
5. Long press the **Menu**  Button to save the selection and return.

NOTES:

- When recoil activated video is recording, a 20-second timer will appear on the left side of the screen.
- 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, as indicated by the video off  icon on the left side of the screen.
- If the Wi-Fi is on, a popup window opens when you turn on the recoil activated video. Select the **✓ Button** confirm to turn it on. Recording image quality will get worse when Wi-Fi is on.



ADVANCED MENU > CALIBRATION

Set the non-uniformity correction (NUC) mode

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the calibration  menu item.
3. Short press the **Photo**  or **Power**  Button to move between the NUC modes, automatic  or manual  appears in the status bar.
4. Long press the **Menu**  Button to save the selection and return.



ADVANCED MENU > UNIT

Set the units of measure

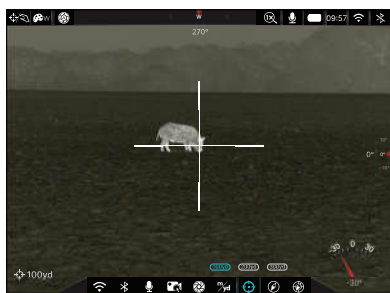
1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the unit  menu item.
3. Short press the **Photo**  or **Power**  Button to move between the unit options, meters (m) and yards (yd).
4. Long press the **Menu**  Button to save the selection and return.



ADVANCED MENU > ZEROING

Select a zero distance

1. Short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the zeroing  menu item.
3. Short press the **Photo**  or **Power**  Button to move through the three zero distance options.

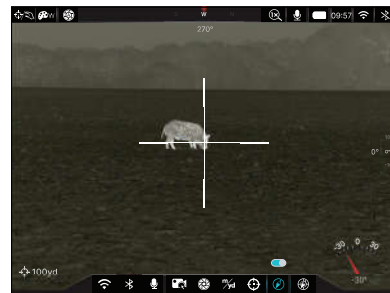


4. Long press the **Menu**  Button to save the selection and return.

ADVANCED MENU > COMPASS

Turn the digital compass on/off

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the compass  menu item.
3. Short press the **Photo**  or **Power**  Button to turn the compass on or off.
3. Long press the **Menu**  Button to save the selection and return.
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 of the screen, and the tilt angle appears in the lower-right corner.

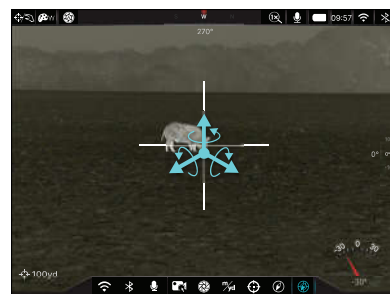


ADVANCED MENU > COMPASS CALIBRATION

Calibrate the digital compass

When the user location or the magnetic field changes dramatically, re-calibration may be necessary to ensure the accuracy of the digital compass.

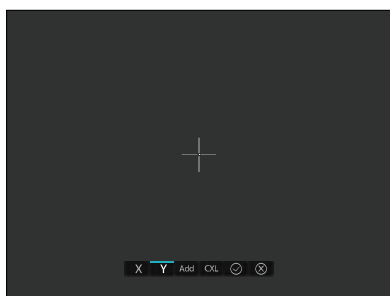
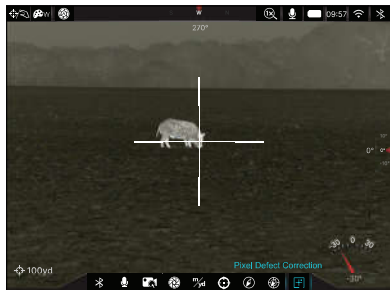
1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the compass calibration  menu item.
3. A triaxial coordinate prompt will appear on the screen.
4. Follow the prompt to rotate the MICRO V2 at least 360 degrees along the X, Y, and Z axes. Rotations must be completed within the 30-second calibration time.
5. After 30 seconds, the calibration will conclude automatically and the system will return to the previous menu.



ADVANCED MENU > PIXEL DEFECT CORRECTION

Correct defective pixels

Defect 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 MICRO V2 Series has a tool for correcting defective pixels on the sensor using its internal software.



1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the pixel correction  menu item and enter the defective pixel correction interface.
3. The interface has the following features:
 - 1 **Cursor**: A pixel cursor appears in the center of the screen in place of the reticle. Move the cursor to the position of the defective pixel.
 - 2 **X**: Select to move the cursor along X-Axis.
 - 3 **Y**: Select to move the cursor along Y-Axis.
 - 4 **Add**: Select to add a defective pixel to the “to be corrected” list. Shows the number of defective pixels in the list.
 - 5 **CXL**: Select to clear the “to be corrected” list.
 - 6 **✓**: Perform pixel correction and exit the interface.
 - 7 **✕**: Exit the interface without saving.
4. To use the interface:
 - a. Short press the **Photo**  or **Power**  Button to move through the interface. The cursor position is indicated by a blue line at the top of the button.
 - b. Short press the **Menu**  Button to select an interface button. The selected button will be highlighted in blue.
 - c. Long press the **Menu**  Button to deselect the button.
5. Select the **CXL** button to clear “to be corrected” list, as needed.
6. With the **X** or **Y** Button selected, move the cursor to the location of the defective pixel:

- a. Use the **Photo**  Button to move in the positive direction: X= Right and Y= Up.
 - b. Use the **Power**  Button to move in the negative direction: X= Left and Y= Down.
 - c. Short press to move the reticle in the corresponding direction by 1 pixel; long press to move 10 pixels.
7. Select the **Add** Button to confirm the location of a defective pixel and add it to a “to be corrected” list. The button will briefly be highlighted in blue to indicate the pixel has been added.
 8. Repeat steps 6–7 to add any additional defective pixels.
 9. Select the **✓** Button to correct the saved list of defective pixels and exit the interface; **OR**
 10. Select **✕** Button to exit the interface without performing pixel corrections.

ADVANCED MENU > FORMATTING

Reformat the internal memory card

This function quickly erases all files saved to the internal memory card.



WARNING: Before reformatting make sure to back up any photos and videos you want to keep. All files saved on the internal memory card will be permanently deleted.

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the reformat memory  menu item.
3. Short press the **Photo**  or **Power**  Button to move between the reformatting options, Yes and No.
4. Short press the **Menu**  Button to select **No** to cancel and return to the previous menu or **Yes** to begin reformatting the internal memory card.

NOTE: Do not perform any other operations during reformatting.

ADVANCED MENU > DATE AND TIME

Set the date and time

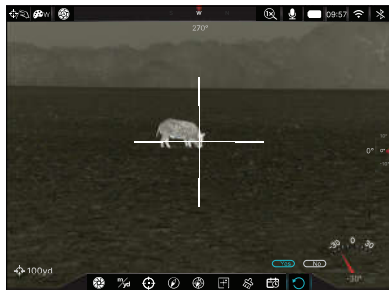
1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the date and time  menu item.
3. The date/time popup that opens has the following features:
 - 1 **YYYY-MM-DD Field:** Year-Month-Day.
 - 2 **HH:MM Field:** Hour:Minute.
 - 3 **✓ Button:** Save the date and time and exit.
 - 4 **✕ Button:** Close the popup without saving.
4. To use the popup interface:
 - a. Short press the **Photo**  or **Power**  Button to move through the interface. The cursor position is indicated by a blue outline around the field or button.
 - b. Short press the **Menu**  Button to select an interface field or button. Selected fields will be highlighted in blue.
 - c. Long press the **Menu**  Button to save the changes and deselect the field.
5. Set the year, month, day, hours, and minutes.
6. Select the **✓ Button** to save the new date and time and return to the previous menu; **OR**
7. Select the **✕ Button** to exit the popup without saving and return to the previous menu.
8. The set time is displayed in 24-hour format on the right side of the status bar.



ADVANCED MENU > FACTORY RESET

Perform a factory reset

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.



2. Short press the **Menu**  Button to select the factory reset  menu item.
3. Short press the **Photo**  or **Power**  Button to move between the factory reset options, Yes and No.
4. Short press the **Menu**  Button to select **No** to cancel and return to the previous menu or **Yes** to begin the factory reset.

NOTES:

- A factory reset cannot be undone.
- The screen will go dark and the factory restart will begin after a pause of about 20 seconds. Please do not press any buttons during this time.
- The settings listed below will be reset to the factory defaults:

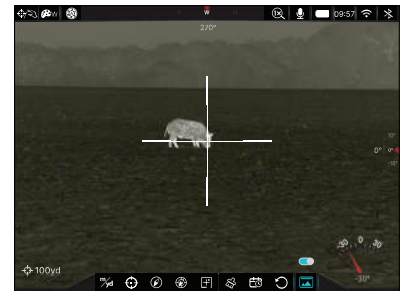
• Color Palette: White hot	• Bluetooth: Off
• Image Brightness: 5	• Microphone: On
• Contrast: 5	• Recoil Activated Video: Off
• Screen Brightness: 5	• Digital Compass: On
• Digital Zoom: 1×	• Wi-Fi password: 12345678
• Wi-Fi: Off	

ADVANCED MENU > STATUS AUTO-HIDE

Turn status bar auto-hide on / off

When turned on, this function automatically hides all interface elements, aside from the reticle, for an unobstructed image view.

When auto-hide is turned on, after 7 seconds of inactivity the status bar, compass, and all interface icons will be automatically hidden.



Shortcut buttons and the menu are disabled until the entire interface is again displayed. Press any button to show all interface information again.

NOTE: When the auto-hide is turned on and the menu is open, the menu will hide after 15 seconds of inactivity and the rest of the user interface will hide after an additional 15 seconds.

1. In the advanced menu, short press the **Photo**  or **Power**  Button to move through the menu.
2. Short press the **Menu**  Button to select the status auto-hide  menu item.
3. Short press the **Photo**  or **Power**  Button to turn status bar auto-hide on or off.

4. Long press the **Menu**  **Button** to save the selection and return.

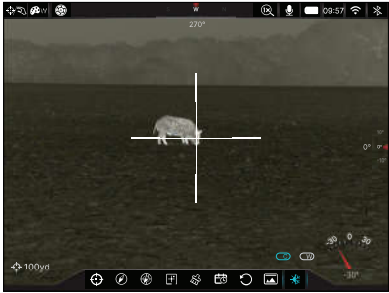
ADVANCED MENU > IMAGE HUE

Select the image hue

1. In the advanced menu, short press the **Photo**  or **Power**  **Button** to move through the menu.
1. Short press the **Menu**  **Button** to select the image hue  menu item.
2. Short press the **Photo**  or **Power**  **Button** to move between the image hue options, cool (C) and warm (W).
3. Long press the **Menu**  **Button** to save the selection and return.

NOTES:

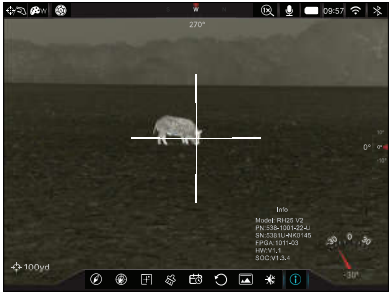
- Cool mode provides a brighter image and warm mode provides a softer image and reduces eye strain.
- Image hue is available when using the white hot or black hot color palette.



ADVANCED MENU > INFO

Show device information

1. In the advanced menu, short press the **Photo**  or **Power**  **Button** to move through the menu.
2. Short press the **Menu**  **Button** to select the info  menu item to display device information: the model number, the part and serial numbers, and the FPGA, hardware, and SOC versions.
3. Long press the **Menu**  **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 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.

25. BASIC MAINTENANCE

Always replace the objective lens cap (6) 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

- Install and charge the battery at least once every six months.
- Do not attempt to disassemble or repair the MICRO V2. 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 V2.

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.

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.

- 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.

The troubleshooting table on page 48 lists issues that may occur when operating the RICO MICRO V2 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.

This image shows a full page of blank handwriting practice paper. It features evenly spaced horizontal blue lines across the entire page, providing a guide for letter height and placement. There are no margins, text, or other markings present.

ISSUE	POSSIBLE CAUSES
The RICO MICRO V2 will not turn on.	The 18650 battery is very low or has completely discharged.
The RICO MICRO V2 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.
The RICO MICRO V2can 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 RICO MICRO V2 is not mounted securely or the mount is not secured on the RICO MICRO V2.
Observed target disappears.	Observing the target through glass.
The RICO MICRO V2 will not focus.	Image settings are not optimal for the current environmental conditions or the object being observed.
When the RICO MICRO V2 is used in low-temperature conditions, the image quality of the surroundings is worse than in warm-temperature conditions.	Environmental conditions.

TROUBLESHOOTING STEPS
Charge the battery.
Check the external power supply and charge it if necessary.
Power on the computer.
Replace the cable.
Turn on the Wi-Fi in the main menu. See Advanced Menu > Wi-Fi on page 36.
On the mobile device, go to Settings > Wi-Fi and enter the correct password. The default password is 12345678. See Advanced Menu > Wi-Fi on page 36.
Move the RICO MICRO V2 and mobile device to an area with no or fewer Wi-Fi signals.
- Try again when the Wi-Fi signal is stable. - Move the RICO MICRO V2 closer to the Wi-Fi signal.
Perform a non-uniformity correction. See Non-uniformity Correction on page 21 and See Advanced Menu > Calibration on page 3 .
Adjust the screen brightness in the menu. See Main Menu > Image Brightness on page 30.
Adjust the focus on the target by rotating the objective focus ring (7).
Wipe the external optical surface with the included microfiber lens cloth.
- Wipe the external optical surface with the included microfiber lens cloth. - Allow the RICO MICRO V2 to dry by leaving it in a warm, dry environment for at least 4 hours.
- Check that the RICO MICRO V2 has been securely mounted. - Make sure you are using the same brand, type, and weight of the bullets as when the RICO MICRO V2 and weapon were initially zeroed. - If the RICO MICRO V2 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 ring (7). - Adjust the image and device settings. See Quick Start Guide on page 8.
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.



2601 State Hwy 121,
Building 3, Suite 306
Lewisville, TX 75056
800-769-7125
682-499-0047
info@irayusa.com

A24I5CT