4. ✕ **Button:** Exit the interface without saving.

3. To use the interface:
   a. Short press the **Left** ◁ and **Right** ▷ **Buttons** to move through the interface. The cursor position is indicated by a white outline around the button.
   b. Short press the **Menu** (M) **Button** to select or deselect a button. Selection is indicated by a blue outline around the button.
   c. With the X or Y button selected, short press the **Left** ◁ and **Right** ▷ **Buttons** to move the X/Y position of the screen.
4. Adjust the X/Y position of the screen.
   a. Press the **Right** ▷ **Button** to move in the positive direction: X= Right and Y= Up.
   b. Press the **Left** ◁ **Button** to move in the negative direction: X= Left and Y= Down.
   c. Short press to move the pixel cursor 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; **OR**
6. Select the ✕ **button** to exit the interface without saving and return to the home screen.

25. MAIN MENU OPTIONS AND DESCRIPTIONS

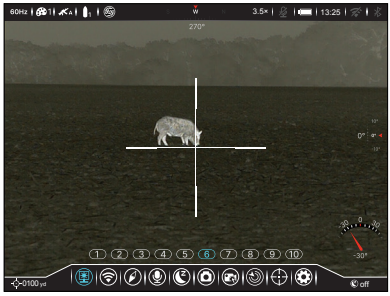
Menu and submenu options, from left to right are:

- **Main Menu:** Screen Brightness, Wi-Fi, Compass, Microphone, Standby, Photo Mode Setting, Recoil Activated Recording, Ballistic Solver, Zeroing, Settings.
  - **Zeroing Menu:** Zeroing Profile, Bullet Type, Custom Zero Distance, Reticle Zeroing, and Custom Zero Distance.
  - **Ballistic Solver Menu:** Profile, SPOA, MOA, Parameter.
  - **Settings Menu:** Bluetooth, Status Auto Hiding, Date and Time, Compass Calibration, Pixel Defect Correction, Color Temperature, Unit, Formatting, Factory Reset, Info.

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

Screen Brightness

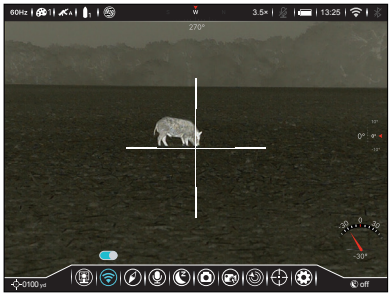
Adjust the screen brightness



1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the screen brightness menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the brightness settings, 1 to 10.
5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

Wi-Fi

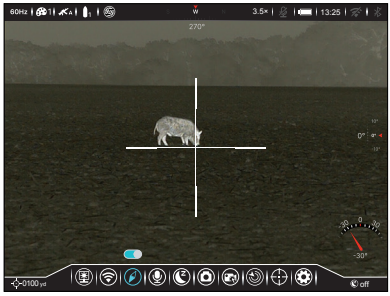
Turn Wi-Fi on / off



Turn on Wi-Fi to operate the scope via the InfiRay Outdoor 2 App.

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the Wi-Fi menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to toggle Wi-Fi on / off. Wi-Fi status, on or off , changes in real-time and appears in the status bar.
5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

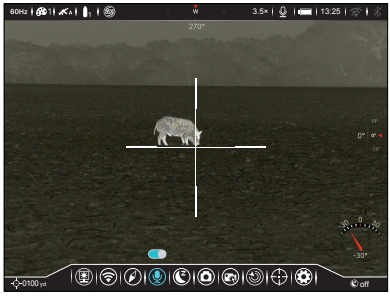
Compass



Turn the compass and gravity sensor on / off

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the compass menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to toggle the compass and gravity sensor on / off. When turned on, the 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.
5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

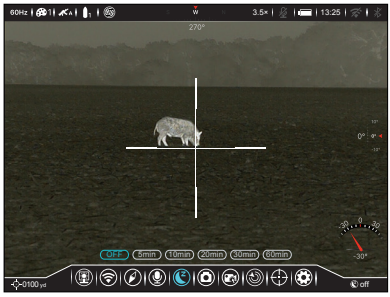
Microphone



Turn the microphone on / off

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the microphone menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to toggle the microphone on / off. The microphone status, on or off, changes in real-time and appears in the status bar.
5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

Standby



Set standby time

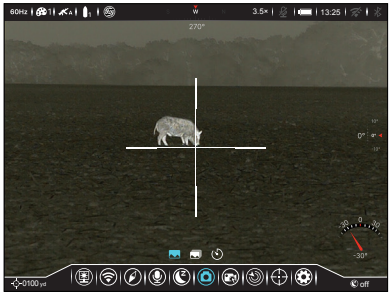
To conserve battery, the HYBRID COMPACT may be set to automatically enter standby mode after a specified length of inactivity.

1. Long press the **Menu** Ⓜ **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the standby menu item.
3. Short press the **Menu** Ⓜ **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the standby submenu options, 5min, 10min, 20min, 30min, 60min, or off. The standby status changes in real-time, and the standby icon and status (5min, 10min, 20min, 30min, or 60min, or off) appear in the lower-right corner of the screen.
5. Short press the **Menu** Ⓜ **Button** to confirm the selection and return to the previous menu.
6. When standby is turned on, the HYBRID COMPACT will automatically enter standby mode after the set number of minutes of inactivity.
7. When in automatic standby mode, short press the **Power** ⏻ **Button** to exit standby and return to the home screen.

STANDBY NOTES:

- When **off** is selected, standby mode is turned off and the rifle scope will operate until the battery runs out.
- Standby mode may be manually activated from the home screen at any time.

Photo Mode Settings

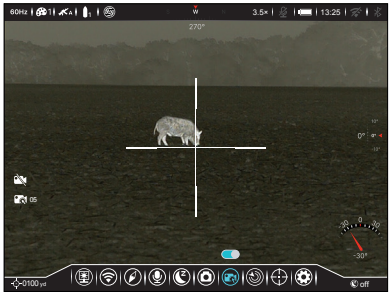


Set the photo settings

The HYBRID COMPACT has three photo modes, single-shot, burst, and self-timer. Self-timer mode will automatically take a photo after a 5-second delay. Burst mode will take a photo every second for 6 seconds.

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the photo modes menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the submenu options, single-shot, burst, and self-timer modes. Single shot mode is selected by default.
5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

Recoil Activated Recording



Turn the recoil activated video on / off

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the recoil activated recording menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Left** ◁ or **Right** ▷ **Button** to toggle recoil activated video on / off. The recoil activated video icon appears on the left side of the screen when turned on and a 20-second timer starts. When turned on, the rifle scope will record 20 seconds of video before a shot is taken and 20 seconds after.

5. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

Ballistic Solver

Turn the ballistic solver on / off and adjust its settings

In the ballistic solver menu, you can turn on the ballistic solver, select a ballistics profile, set the suggested point of aim (SPOA), set the measurement to MOA or mil, or set parameters for bullets, rifles, and the environment.

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the ballistic solver menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.
4. Short press the **Menu** (M) **Button** to turn the ballistic solver on / off. When off, the ballistic solver submenu items are grayed and inaccessible. When on, the submenu items turn white and maybe be selected to adjust the ballistic settings.

NOTE: Quickly enable or disable the ballistic solver by rotating the multi-function switch 30 degrees (turn clockwise to enable, counterclockwise to disable).

BALLISTIC SOLVER MENU > PROFILE

Select a ballistics profile

1. In the ballistic solver submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select Profile.
2. Short press the **Menu** (M) **Button** to enter the submenu.

3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the profile options 0–4.
4. Short press the **Menu** Ⓜ **Button** to confirm the selection and return to the previous menu.

NOTE: The ballistic profile name can be customized in the InfiRay Outdoor 2 App.

BALLISTIC SOLVER MENU > SPOA

Set the suggested point of aim (SPOA)

1. In the ballistic solver submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select SPOA.
2. Short press the **Menu** Ⓜ **Button** to enter the submenu.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the options, “×”, “+”, “•”, “• • ● • •”, and Move Reticle.
4. Short press the **Menu** Ⓜ **Button** to confirm the selection and return to the previous menu.

NOTE: When SPOA is set to Move Reticle, the HYBRID COMPACT will automatically move the original reticle to the suggested point of aim.

BALLISTIC SOLVER MENU > MOA/MIL

Set the measurement to MOA or mil

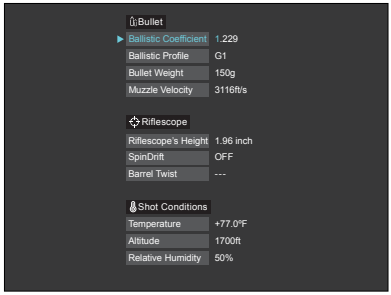
1. In the ballistic solver submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select MOA/mil.
2. Short press the **Menu** Ⓜ **Button** to toggle between the two options, MOA and mil.

3. Short press the **Menu** Ⓜ **Button** to confirm the selection and return to the previous menu.

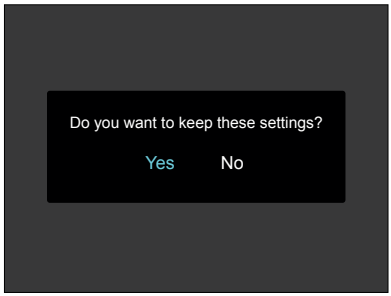
BALLISTIC SOLVER MENU > PARAMETER

Set parameters for bullets, rifles, and the environment

1. In the ballistic solver submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select Parameter.
2. Short press the **Menu** Ⓜ **Button** to enter the Parameter screen.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move up and down through the individual parameters and short press the **Menu** Ⓜ **Button** to begin editing a parameter.



4. For parameters with multiple fields, such as Muzzle Velocity which has four digits and a units field (ft/s or m/s), short press the **Menu** Ⓜ **Button** to toggle through the fields. The selected digit turns blue. Short press the **Left** ◁ or **Right** ▷ **Button** to select the desired value for each field.
5. Short press the **Power** ⏻ **Button** to return to the parameter list.
6. Short press the **Power** ⏻ **Button** a second time to exit the interface.

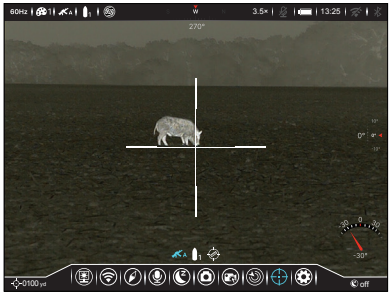


7. A popup window opens with the message “Do you want to keep these settings?” and two options, Yes and No. Yes is selected by default.

8. Short press the **Menu** (M) **Button** to select **Yes** to save and exit to the previous menu; **OR**
9. Short press the **Right** ▷ **Button** to move to **No** and short press the **Menu** (M) **Button** to exit to the previous menu without saving.

NOTES: Parameters can be adjusted in the InfiRay Outdoor 2 App.

Zeroing



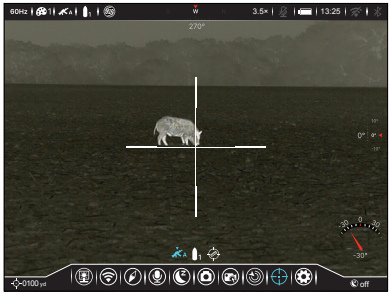
Select or customize a zero distance

In the zeroing menu, you can select a preset zero distance, customize a preset zero distance, and adjust the reticle position for the selected zero distance. The HYBRID COMPACT supports custom zero distances of 1 to 999 yards or 1 to 999 meters.

NOTE: Before selecting or customizing a zero distance, please select a zeroing profile (A, B, or C) and a bullet type (1, 2, or 3). See the **Zeroing Profile** section on page 38.

1. Long press the **Menu** (M) **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the zeroing ⊕ menu item.
3. Short press the **Menu** (M) **Button** to enter the submenu.

ZEROING MENU > ZEROING PROFILE

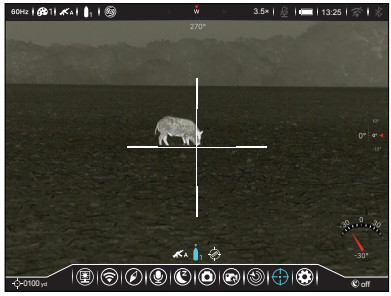


Set the zeroing profile

1. In the zeroing profile submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select the zeroing profile menu item.
2. Short press the **Menu** (M) **Button** to enter the submenu.

3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the options, A, B, and C. The selection changes in real-time, and the zeroing profile icon and selected type, A, B, or C, appear in the status bar.
4. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

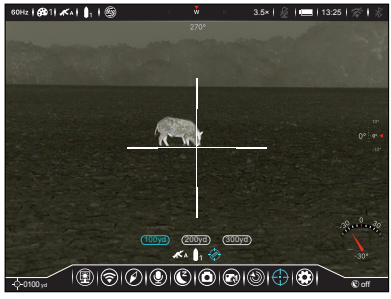
ZEROING MENU > BULLET TYPE



Set the bullet type

1. In the zeroing profile submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select the bullet type menu item.
2. Short press the **Menu** (M) **Button** to enter the submenu.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the options, 1, 2, and 3. The selection changes in real-time. The bullet icon and type, 1, 2, or 3, appear in the status bar.
4. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

ZEROING MENU > ZERO DISTANCE



Select or customize a preset zero distance

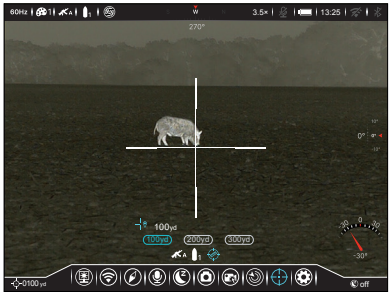
1. In the zero distance submenu, short press the **Left** ◁ or **Right** ▷ **Button** to select a zero distance menu item.
2. Short press the **Menu** (M) **Button** to enter the submenu.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through the zero distance options.
4. Short press the **Menu** (M) **Button** to select a zero distance.

5. In the submenu for the selected zero distance, you may select:
    a. The reticle zeroing menu item to enter the reticle zeroing interface to adjust the X/Y position of the reticle. See Reticle Zeroing on the next page.
    b. The zero distance value to customize it. See **Zeroing Menu** > **Customize Zero Distance** on page 42.

ZEROING MENU > ZERO DISTANCE SUBMENU > RETICLE ZEROING

Adjust the reticle position of the selected zero distance.

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



1. In the submenu for the selected zero distance, the reticle zeroing menu item is selected by default. Short press the **Menu** (M) **Button** to select it and enter the reticle zeroing interface.
2. The reticle zeroing interface has the following features:

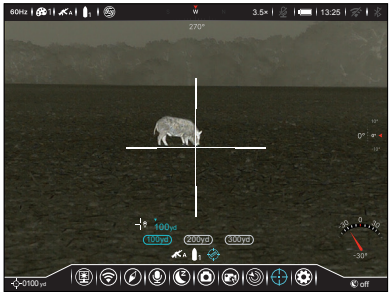
    1 **X:** Horizontal point of impact change (in cm or inches).
    2 **Y:** Vertical point of impact change (in cm or inches).
    3 **Freeze Icon:** Appears when the image is frozen.
    4 **Reticle:** Shows the new reticle position.
    5 **Red Dot:** Indicates the original reticle position for the selected axis.
3. Center the reticle on the aiming point and long press the **Left** and **Right** **Buttons** at the same time to freeze the image. The image freeze icon will appear below the X/Y coordinates.

4. Short press the **Left** ◁ or **Right** ▷ **Button** to move between X and Y. Blue text indicates the cursor location.
5. Short press the **Menu** Ⓜ **Button** to select the axis (X or Y) along which to move the reticle. A blue arrow appears to the left of the selected axis.
6. 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 red dot appears on the screen, representing the original reticle position.
    c. Press the **Right** ▷ **Button** to move in the positive direction: X= Right and Y= Up.

    d. Press the **Left** ◁ **Button** to move in the negative direction: X= Left and Y= Down.
    e. Short press to move the pixel cursor in the corresponding direction by 1 pixel. Long press to move 10 pixels.
    f. When adjusting your zero at a distance of 50 yards, a short press will change the impact point by 0.16”, and a long press moves 1.60” as shown in the X and Y coordinate displays. At 100 yards that same short press moves 0.32” and a long press moves 3.20”. At 200 yards a short press moves 0.64” and a long press moves 6.40”.
    g. The distance of your X/Y adjustments will update automatically if you change your zero distance, for example from 100 to 200 yards.
7. Save **OR** clear the reticle position along the selected axis.
    a. Short press the **Power** ⏻ **Button** to clear the reticle position for the selected axis, returning the reticle to the original position for that axis; **OR**
    b. Short press the **Menu** Ⓜ **Button** to save the position for the selected axis and deselect it. The blue arrow will disappear.
8. Repeat steps 4–7 to move the reticle to the desired location.
9. With neither axis selected, short press the **Power** ⏻ **Button** to exit and return to the previous menu.
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.

ZEROING MENU > ZERO DISTANCE SUBMENU > CUSTOMIZE ZERO DISTANCE ▼000 m

Customize a preset zero distance

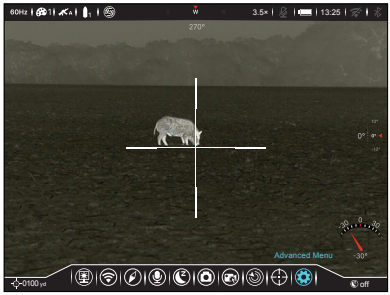


The HYBRID COMPACT supports custom zero distances of 1 to 999 yards or 1 to 999 meters.

1. In the submenu for the selected zero distance, short press the **Left** ◁ or **Right** ▷ **Button** to move to the preset zero distance.
2. Short press the **Menu** Ⓜ **Button** to begin customizing the zero distance. A blue arrow icon will appear above the selected digit to mark the cursor location. The far-left digit is selected by default.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to increase or decrease the value of the selected digit, from 0–9.
4. Short press the **Menu** Ⓜ **Button** to switch between the three digits. The blue arrow icon will move to indicate the selected digit.
5. Short press the **Menu** Ⓜ **Button** to confirm the selection and return to the previous menu.
6. The new zeroing distance appears in the lower-left corner of the screen.

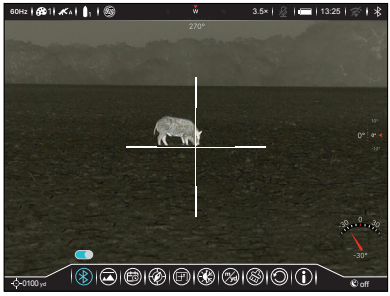
Settings Menu ⚙

Adjust advanced settings



1. Long press the **Menu** Ⓜ **Button** to enter the main menu.
2. Short press the **Left** ◁ or **Right** ▷ **Button** to select the settings ⚙ menu item.
3. Short press the **Menu** Ⓜ **Button** to enter the submenu.

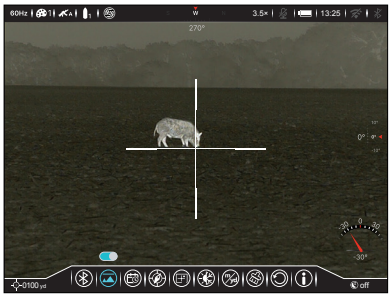
SETTINGS MENU > BLUETOOTH



Turn Bluetooth on / off

1. In the settings menu, short press the **Left** or **Right** **Button** to select the Bluetooth menu item.
2. Short press the **Menu** **Button** to enter the submenu.
3. Short press the **Left** or **Right** **Button** to toggle Bluetooth on / off. The Bluetooth status, on or off , changes in real-time and appears on the right side of the status bar.
4. Short press the **Menu** **Button** to confirm the selection and return to the previous menu.

SETTINGS MENU > STATUS AUTO HIDING



Turn status bar auto-hiding on / off

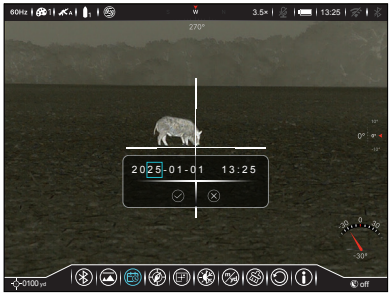
When turned on, this function automatically hides all interface elements, aside from the reticle, for an unobstructed image view.

When auto-hide is turned on, after 8 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.

1. In the settings menu, short press the **Left** or **Right** **Button** to select the status auto-hiding menu item.
2. Short press the **Menu** **Button** to enter the submenu.
3. Short press the **Left** or **Right** **Button** to toggle the status bar auto-hiding function on / off. Status bar auto-hiding is off by default.
4. Short press the **Menu** **Button** to confirm the selection and return to the previous menu.

SETTINGS MENU > DATE AND TIME

Set the date and time



1. In the settings menu, short press the **Left** or **Right** **Button** to select the date and time menu item.
2. Short press the **Menu** (M) **Button** to open the date and time window.
3. The date/time window has the following features:

    1 Date/Time Fields:
    YYYY-MM-DD (Year, Month, Day) and HH:MM (Hour, Minute).

    2 ✓ Button: Save and exit.

    3 ✕ Button: Close window without saving.

To set the date and time:

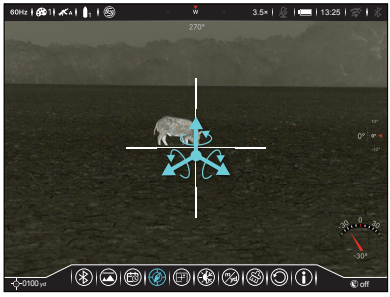
1. The cursor position is indicated by a blue outline around the field or button. The year value is selected by default.
2. Short press the **Left** or **Right** **Button** to select the correct number for each date/time field, year, month, day, hour, and minute.
3. Short press the **Menu** (M) **Button** to move through the fields and buttons in the date/time window.
4. Short press the **Left** or **Right** **Button** to move to the **✕ Button**. Short press the **Menu** (M) **Button** to select it and close the window without saving; OR
5. Short press the **Left** or **Right** **Button** to move to the **✓ Button**. Short press the **Menu** (M) **Button** to select it, save the set time, and return to the previous menu.

NOTES:

- Alternatively, the date/time may be synchronized with a mobile device using the InfiRay Outdoor 2 App. See **Using the InfiRay Outdoor 2 App** on page 25.
- The time appears on the right side of the status bar.

SETTINGS MENU > COMPASS CALIBRATION

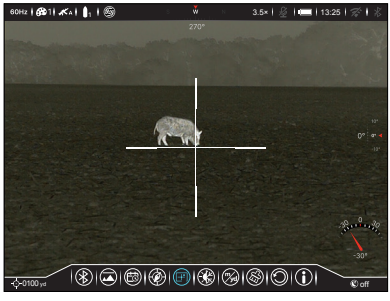
Calibrate the compass



1. In the settings menu, short press the **Left** or **Right** **Button** to select the compass calibration menu item.
2. Short press the **Menu** **Button** to begin compass calibration.
3. A triaxial coordinate icon prompt will appear on the screen.
4. Follow the icon prompt to rotate the HYBRID COMPACT at least 360 degrees along each axis, X, Y, and Z. Rotations must be completed within the 30-second calibration time.
5. After 30 seconds, the calibration is finished and the HYBRID COMPACT will automatically return to the home screen.

SETTINGS 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 HYBRID COMPACT has a tool that corrects defective pixels on the sensor using its internal software.

1. In the settings menu, short press the **Left** or **Right** **Button** to select the pixel defect correction menu item.
2. Short press the **Menu** **Button** to enter the defective pixel correction interface.

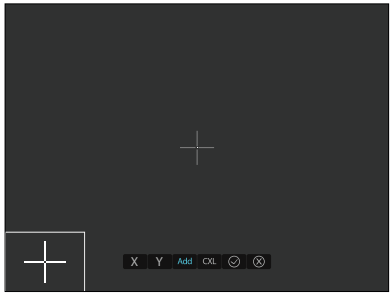
3. The interface has the following features:

   1 **PIP Window:** The Picture in Picture window appears in the lower-left corner.
   2 **Pixel Cursor:** Cursor appears in the center of the screen in place of the reticle. Move the cursor to the position of the defective pixel.
   3 **X Button:** Move the cursor horizontally.
   4 **Y Button:** Move the cursor vertically.
   5 **Add Button:** Add a defective pixel to the “to be corrected” list.
   6 **CXL Button:** Clear pixels saved in the “to be corrected” list.
   7 ⓥ **Button:** Save and exit the interface.
   8 ⓧ **Button:** Exit the interface without saving.

To select and correct defective pixels:

4. The button cursor position is indicated by a blue line at the top of the button. The cursor is located on the **X Button** by default.
5. Short press the **Menu** Ⓜ **Button** to select the **X Button** and begin moving the pixel cursor along the X-Axis. When selected the button text turns blue.
6. Move the pixel cursor along the selected axis to the location of the defective pixel:
   a. Short press the **Left** ◁ **Button** to move X= Left and Y= Up.
   b. Short press the **Right** ▷ **Button** to move X= Right and Y= Down.
   c. Short press to move the pixel cursor in the corresponding direction by 1 pixel. Long press to move 10 pixels.
7. Short press the **Menu** Ⓜ **Button** to deselect the X-Axis and the **X Button**.
8. Short press the **Left** ◁ or **Right** ▷ **Button** to move to the **Y Button**. Short press the **Menu** Ⓜ **Button** to select it and begin moving the pixel cursor along the Y-Axis. When selected the button text turns blue.
9. Short press the **Left** ◁ or **Right** ▷ **Button** to move the pixel cursor along the Y-Axis.
10. When the pixel cursor is in position over a defective pixel, short press the **Menu** Ⓜ **Button** to deselect the Y-Axis and the **Y Button**.

11. Short press the **Left** ◁ or **Right** ▷ **Button** to move to the **Add Button**. Short press the **Menu** Ⓜ **Button** to select it and add the defective pixel to the “to be corrected” list. The button text will briefly turn blue to indicate that the pixel has been successfully added.
12. Repeat the above steps to add any additional defective pixels to the “to be corrected” list.
13. To clear the “to be corrected” list and exit the interface, short press the **Left** ◁ or **Right** ▷ **Button** to the **CXL Button**. Short press the **Menu** Ⓜ **Button** to select it and clear the “to be corrected” list. The button text will briefly turn blue to indicate that the correction list has been successfully cleared; **OR**



14. To correct the saved list of defective pixels, short press the **Left** ◁ or **Right** ▷ **Button** to move to the ✓ **Button**. Short press the **Menu** Ⓜ **Button** to select it, correct the saved list of defective pixels, and return to the menu; **OR**
15. Short press the **Left** ◁ or **Right** ▷ **Button** to move to the ⊗ **Button**. Short press the **Menu** Ⓜ **Button** to select it and exit the interface without correcting the saved list of pixels.

NOTE: The PIP window and interface controls will move to the upper-left corner of the screen when the cursor moves into the lower-left corner.

SETTINGS MENU > COLOR TEMPERATURE

Set the color temperature

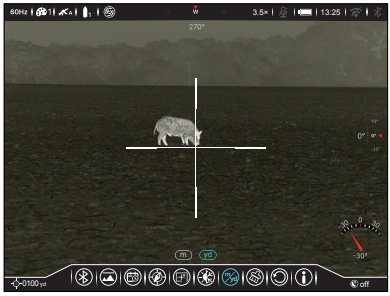
1. In the settings menu, short press the **Left** ◁ or **Right** ▷ **Button** to select the color temperature menu item.
2. Short press the **Menu** Ⓜ **Button** to enter the submenu.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through options, W (warm) and C (cool).

4. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

NOTES:

- Cool mode provides a brighter image and warm mode provides a softer image and reduces eye strain.
- Color temperatures are supported in the white hot and black hot color palettes only.

SETTINGS MENU > UNIT (m/yd)

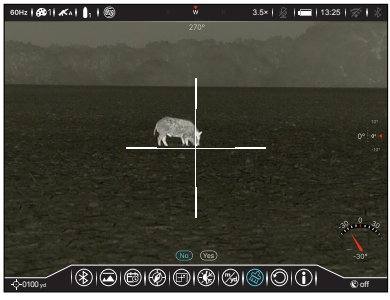


Set the unit of measurement

1. In the settings menu, short press the **Left** ◁ or **Right** ▷ **Button** to select the unit (m/yd) menu item.
2. Short press the **Menu** (M) **Button** to enter the submenu.
3. Short press the **Left** ◁ or **Right** ▷ **Button** to move through unit options, m (meters) or yd (yards).
   The selected units appear along with the selected zero distance in the lower-left corner of the screen.
4. Short press the **Menu** (M) **Button** to confirm the selection and return to the previous menu.

SETTINGS MENU > FORMATTING

Reformat the internal memory card



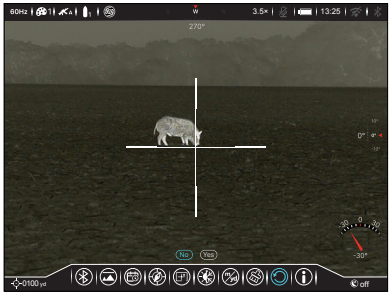
This function quickly erases all files saved to the internal memory card.

WARNING: This action cannot be undone. All files saved on the internal memory card will be permanently deleted. Make sure to back up any photos and videos you want to keep to other media storage before reformatting.

1. In the settings menu, short press the **Left** or **Right** **Button** to select the formatting menu item.
2. Short press the **Menu** **Button** to enter the submenu.
3. Short press the **Left** or **Right** **Button** to move through options, No and Yes. No will cancel the operation. Yes will reformat the memory card. No is selected by default.
4. Short press the **Menu** **Button** to cancel and return to the settings menu; **OR**
5. Short press the **Left** or **Right** **Button** to move to **Yes** and short press the **Menu** **Button** to confirm the memory card reformatting.

SETTINGS MENU > FACTORY RESET

Restore factory default settings



1. In the settings menu, short press the **Left** or **Right** **Button** to select the factory reset menu item.
2. Short press the **Menu** **Button** to enter the submenu.
3. Short press the **Left** or **Right** **Button** to move through options, No and Yes. No will cancel the operation. Yes will restore factory settings and No is selected by default.
4. Short press the **Menu** **Button** to cancel and return to the settings menu; **OR**
5. Short press the **Left** or **Right** **Button** to move to **Yes** and short press the **Menu** **Button** to confirm the factory reset. Factory settings will be reset immediately.

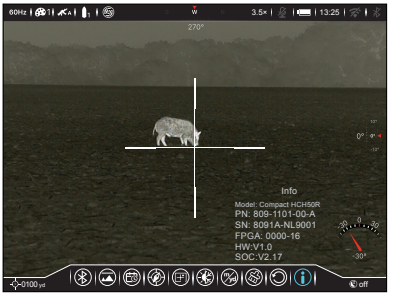
NOTES:

- The factory reset will begin immediately and the system will return to the previous menu upon completion.
- A factory reset cannot be undone.

- The settings listed below will be reset to the factory defaults:
  - Color Palette: White Hot
  - Image Brightness: 5
  - Contrast: 5
  - Sharpness: 5
  - Calibration Mode: A (automatic)
  - Reticle Type: 2
  - Reticle Color: Black
  - Screen brightness: 5
  - Wi-Fi: Off
  - Compass: Off
  - Microphone: On
  - Standby: Off
  - Photo Mode: Single-shot
  - Recoil Activated Video: Off
  - Ballistic Solver: Off
  - Status Bar Auto-Hide: Off
  - Image Hue: C (cool)
  - Unit: yd (yards)
  - Wi-Fi SSID: Compact_XXXXX
  - Wi-Fi Password: 12345678

SETTINGS MENU > INFO ⓘ

Show device information



1. In the settings menu, short press the **Left** ◁ or **Right** ▷ **Button** to select the info ⓘ menu item.
2. Short press the **Menu** Ⓜ **Button** to enter the submenu.
3. The info submenu will display the following information about the HYBRID COMPACT: the product model, PN and SN numbers, FPGA, and HW and SOC versions.
4. Short press the **Menu** Ⓜ **Button** to return to the previous menu.

26. 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 control buttons should be in working order.

27. 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.

28. 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 HYBRID COMPACT 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.

29. BUTTON CELL BATTERY WARNINGS

⚠ WARNING

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

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Compatible battery type MS621T. Nominal battery voltage 3.0V.
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating), or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical bums.
- The product contains a non-replaceable battery.

30. FCC STATEMENT

FCC ID: 2AY3N-COMPACT

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 complies with RF exposure requirements for general population exposure conditions.SAR test distance is 0cm.

31. GENERAL TROUBLESHOOTING

The troubleshooting table on the next page lists issues that may occur when operating the HYBRID COMPACT. 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
The HYBRID COMPACT will not turn on.	The battery is very low or has fully discharged.
The HYBRID COMPACT can not connect to a computer or external power supply.	External power supply has completely discharged.
	Computer is turned off.
	Data cable is damaged.
The HYBRID COMPACT can not connect to the mobile device (smartphone or tablet).	Wi-Fi is not turned on.
	Wrong Wi-Fi password entered.
	Too many Wi-Fi signals near the rifle scope.
Wi-Fi signal is lost or interrupted.	Smartphone or tablet is out of range of a strong Wi-Fi signal, or there are obstacles between the HYBRID COMPACT and the mobile device.
The image is fuzzy, not clear, not balanced, or has artifacts.	Non-uniformity correction is required.
The image is too dark.	Display brightness level is too low.
The GUI is clear, but the image is fuzzy.	The lens is not focused.
	There is dust 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 HYBRID COMPACT is not mounted securely or the mount is not secured on the HYBRID COMPACT.
The image of the observed object is missing.	Looking through glass.
The HYBRID COMPACT will not focus.	Image settings are not optimal for the current environmental conditions or the object being observed.
Image quality is too low or the detection range is reduced.	This may be due to weather conditions, such as snow, rain, humidity, and fog.
When the HYBRID COMPACT 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 data cable.
Turn on the Wi-Fi in the main menu. See **Main Menu** > **Wi-Fi** on page 31.
On the mobile device, go to **Settings** > **Wi-Fi** and enter the correct password. The default password is 12345678. See **Main Menu** > **Wi-Fi** on page 31.
Move the HYBRID COMPACT and mobile device to an area with no or fewer Wi-Fi signals.
• Try again when the Wi-Fi signal is stable. • Relocate the HYBRID COMPACT closer to the Wi-Fi signal.
Perform a non-uniformity correction. See **Non-uniformity Correction** on page 21 and See **Using the Quick Menu** on page 17.
Adjust the brightness in the main menu. See **Main Menu** > **Screen Brightness** on page 31.
• 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.
• Wipe the external optical surface with the included microfiber lens cloth.
• Wipe the external optical surface with the included microfiber lens cloth. • Allow the HYBRID COMPACT to dry by leaving it in a warm, dry environment for at least 4 hours.
• Check that the HYBRID COMPACT has been securely mounted. • Make sure you are using the same brand, type, and weight of the bullets as when the HYBRID COMPACT and weapon were initially zeroed. • If the HYBRID COMPACT 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 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 in the quick menu. See **Using the Quick Menu** on page 17. • Adjust the image and device settings. See **Quick Start Guide** on page 8.
Set the scene mode to fog mode in the quick menu. See **Using the Quick Menu** on page 17.
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.

32. NOTES

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

A25E27CT

Specifications are subject to change without notice. For the most up-to-date specs, go to irayusa.com. Not responsible for typographical errors. Ver 1.0.