SUPER HOGSTER & YOTER LRF USER MANUAL

Part 1.Button layout and function resolution 1024 x 768 (384 core & 640 core) In red the updated part

Button	device status / Current operation mode	Short press	Long press
power button ⏻	Off mode	——	starting up
	Home screen	Shutter correction (default A)	Shut off / standby/ turn back
	Main menu	Return directly to home screen	——
	Pixel defect calibration	Add/Delete defect pixel	
Up /zoom in button ▲	Home screen	Electronic doubling: 0.5x	Electronic doubling:：+3.0 ×(2.0)
	Advanced menu	Select the menu options up wards	——
Menu/M button M	Home screen	Go to the shortcut menu	Go to Advanced Menu
	Shortcut menu	Cycle select menu options	Save and back to last menu
	Advanced menu	Turn on_off/go to next menu/confirm	
down / zoom out ▼	Home screen	Electronic doubling: 0.5x	Electronic doubling:：-3.0 ×(2.0)
	Advanced menu	Select the menu options right down	——
M + down	Home screen	take a picture	Turn on the video function
📷	Video interface	take a picture	End it and save the video
Up + Down	Home screen	Turn on/off LRF icon	
	Zeroing	——	Freeze the zeroing

1. Short Press the power button

a. Shutter calibration: When automatic is selected in the menu function calibration, there is a 5s

countdown in the status bar before the automatic shutter of the device. During the countdown, short press the power button _ to cancel the shutter; when the user wants to open the shutter, but the device does not have an automatic shutter, short press the power button _ Perform shutter correction. When background is selected in the menu function calibration, short press the power button _ a text prompt (Cover the lens during calibration) will appear on the interface for 2s and the background calibration will be performed automatically. The top status bar updates in real time.

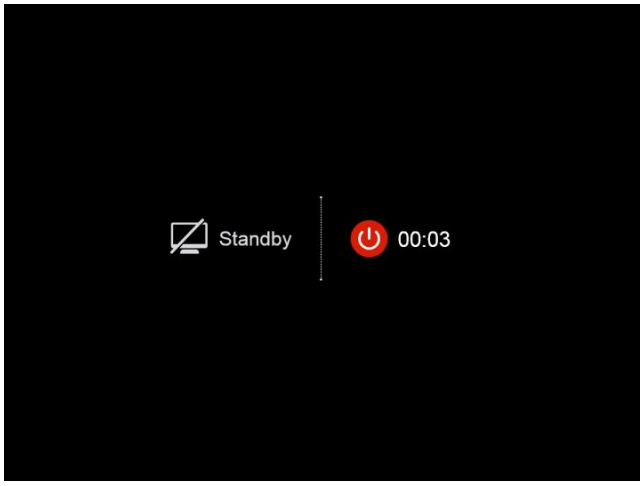
b. **Cancel standby:** In standby state, short press the power button to cancel standby and enter the device on state.

c. **Return:** In the menu function, short press the power button to return to the previous step directly.

2. Long press the power button

a. **Power on:** When the device is not turned on, press and hold the power button to turn it on.

b. **Shutdown/Standby:** In the power-on state, press and hold for 0.5 s to display the standby icon + shutdown countdown for 3s, long press the power button for 3s to end the device shutdown, release the power button before the countdown ends, the device enters standby, and becomes black screen.



Starting on screen standby + shutdown countdown

3. Short press/long press the up botton

a . Electronic zoom: In the main interface, short press the up button to perform electronic zoom, each time it increases by 0.2 ×, the status bar is updated in real time.

For 384: 3.4, 3.6, 3.8, 4.0. … .13.6 / For 640: 2.9, 3.2, 3.4, 3.6 ... 23.2.

b . Select up: After entering the menu function, short press the up key to select the menu option up.

c . Electronic zoom: In the main interface, long press the up button to perform rapid electronic zoom , increasing by 2× each time.

(The electronic zoom will save the value 1x after shutdown)

4. Short press the menu M button

a. Shortcut menu : In the main interface, short press the M key to enter the quick menu, the ↑ key, ↓ key switch the quick menu function options, short press the M key to adjust the specific parameters of a menu, the parameters cycle.

5 . Long press the menu M key

a. Advanced menu: In the main interface, long press the M key to enter the advanced menu, select the menu item with the ↑ and ↓ keys, and short press the M key to switch on_off

/ Enter the next level of the advanced menu / Confirm the option parameter (the selected item flashes once) and directly return to the previous level. Long press the M key to save the Change and return to the main interface.

Photo and video recording function continuous ranging mode

6. Short press/long press down button (photo button)

a. Taking pictures: In the main interface or video interface, short press the camera button, the camera icon flashes once, indicating that a photo has been taken.

b. Recording: In the main interface, long press the camera button to enable the recording function, and the interface displays the recording time. Long press the ↓ key to end the recording and save video. (When the memory is almost full, there is ! Prompt)

c. Select down: After entering the menu function, short press the camera button to select the menu option down.

7. Button combination: M button + down button (factory hidden function)

After menu function LRF is enabled, long press the M key + the down key to switch between continuous ranging/single ranging mode, and continuous ranging is enabled by default.

In the single ranging mode, short press the M button + the down button to display the single ranging value.

Note: In ranging mode, the ranging indicator icon is displayed in the center of the screen; in continuous ranging, the ranging icon CONT is displayed in the upper right corner, and the ranging value is displayed in real time; for single ranging, the ranging icon SGL is displayed in the upper right corner. Value out of min/max range display: ----m.

8. Button combination: up + down button

In zeroing mode, long press up + down button, to freeze zeroing.

9. Button combination: up + M + down button

Under the main interface, long press the **up** + M + down button, reticle and zeroing and other related

functions on / off.

Part Two- status bar

The left-side status bar is as following from left to right:

1. Image mode: white hot, black hot, red hot, pseudo-color, target highlight;
2. Zeroing: A / B / C + distance (default A, 100m) (factory function hidden)
3. Shutter correction: automatic shutter A / manual shutter M / background correction B;
4. Electronic doubling: 3.4,3.6,3.8,4.0....13.6(Factory default: 1 x magnification)
5. Ultra clear mode: on / off;
6. **Wi-Fi: On / off;**
7. HD: on / off (HD and wifi cannot simultaneously turn on)

The Right-side status bar:

1. Real-time time;

2.Power - 6 states: 100%, 80%, 60%, 40%, 20%, 10%, usb power supply icon;

Each status bar has a different status

Interface display function:

1. Upper left corner: photo, video, memory full prompt; next to the status bar, the automatic impact video icon is displayed.
2. Upper right corner: display of ranging value, single ranging/continuous ranging prompt icon;
3. Left and right sides: motion sensor (tilt angle, pitch angle);
4. Center on top: PIP
5. bottom: compass;
6. Image center: cross reticle style, ranging indication, ballistic prediction (factory function hidden)

Motion sensor, compass PIP

Part 3. shortcut menu (under home screen, press M to enter the shortcut menu)

↑ key, ↓ key to switch the shortcut menu function options, short press the M key to adjust the specific parameters of a menu, the parameters cycle. Long press the M key to save the modification and return to the main interface, if no operation for 10 s , save the current modification and return to the main interface **(any modification and exit under the shortcut menu will be saved)** .

From top to bottom are:

Image Mode: White Hot, Black Hot, Red Hot, Pseudo Color, Target Highlight - Loop (factory default White Hot)

Screen brightness: 1, 2, 3, 4, 5 - cycle (factory default 3)

Image Sharpness: 1, 2, 3, 4, 5 - cycle (factory default 3)

Zeroing distance: The default is A100m, and the distance values are displayed in sequence (select gun type A, short press the M key to switch the distance value under A) (factory function hidden)

Image mode

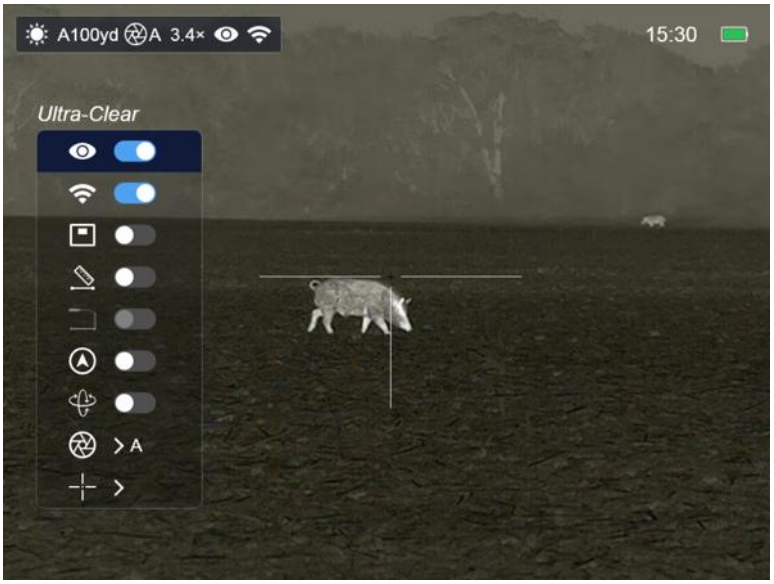
Zeroing distance

Part 4. Advanced menu (under the main interface, long press M to enter the advanced menu)

The ↑ key and the ↓ key can select the advanced menu options up and down, and select an option - short press the M key to turn on/off off (directly make changes); or enter the next level of the advanced menu; case) short press the M key to confirm the current selection, the selected icon flashes once to indicate the selection and directly returns to the previous level. 15s no operation to return to the main interface (modify directly before saving).

Short press the power button to directly return to the main interface. Long press the M key to save and return to the previous level directly.

Unified logic, the top is positive, the bottom is negative, the left is negative, and the right is positive.



The first page from top to bottom: (factory default)

1. **Ultra - Clear** : On/Off
2. **Wi-Fi** : On/Off
3. **PIP** : On/Off (256px×192px) The corresponding magnification value displayed in PIP: 2 times of the main screen magnification
4. **Ranging mode:** on/off (default on: continuous ranging) (factory function hidden)
5. **Ballistic prediction:** on/off (when the ranging mode is off, this function cannot be clicked) (after it is turned on, the ballistic prediction icon will appear in the image)
6. **Compass:** On/Off
7. **Motion Sensor:** On/Off
8. **Shutter Correction:** Automatic A (Automatic) / Manual M (Manual) / Background Correction B (Background) (factory default A)
9. **Reticle selection:** gun type selection, reticle type, reticle color (factory function hidden)

9.1 Gun Type selection: A B C (default A)

9.2 Reticle Type: 6-7 types (default 1)

9.3 Color: black, white, red and green (default black)

The second page from top to bottom is:

1. **Zeroing:** Enter the second page of the advanced menu, select Zeroing, and enter the zeroing distance selection. Default 1 00 m/ 200 m / 300 m can set three distance value. Select a certain distance value, enter the function selection of gun calibration/modify the distance value of the gun (default 100 m) (factory hidden)
One gun type can set up to 3 gun distances, and the user can set the value of the gun distance.

(Zeroing freezing operation process)

➢ Enter the calibration position adjustment page , the center of the screen displays **the cross reticle pattern 1** ;

➢ Aim the center of the cross reticle of the thermal imager at the bullseye at 100 meters and shoot . After the shooting is completed, observe the position of the actual impact point;

- Keep the position of the thermal imager still, **press and hold the ↑ key and ↓ key at the same time, the screen freezes, and a freeze mark appears on the screen at the same time** ;

- ↑ and ↓ keys to select the X-axis or the Y-axis. Short press the M key to confirm that the current adjustment is the X-axis or Y-axis . Short press the M-key again to cancel the confirmation, and the X-axis or Y-axis can be reselected .
- When the X axis is selected, the ↑ cursor moves to the right, and the ↓ cursor moves to the left (X axis); when the Y axis is selected, the ↑ cursor moves up, and the ↓ cursor moves down (Y axis); short press moves 1px , long press moves 1 0px .
- Move the cross reticle to the actual impact point , press and hold the M key to save the latest position of the reticle and return to the main interface ;

When restoring to factory settings, the previously set gun calibration distance is still saved, including the adjustment of X-axis and Y-axis, but after factory restoration, the first gun calibration distance under calibration gun type A is selected by default.

For example: the current is gun type B, the distance has been set to 100 150 300, and 300 is currently selected; after restoring the factory settings, it should be: gun type A, and the gun distance is the distance that has been set under the previous type A (for example 100 300 400) first 100

2 . Shock automatic recording : on/off;

After it is turned on, it will enter the automatic recording mode. When the impact is detected, record 15s before/after the impact (to be determined) and synthesize the whole process into one video, the total duration = 15s before and after the impact + the first shot to the last shot (every two shots) The firing interval is less than 5s)

3 . HD video recording : on/off;

When high-definition video recording is turned on, if the wifi is on, it will prompt "the wifi needs to be turned off to enable the high-definition video recording function". After the high-definition recording function is turned off, the wifi returns to its previous state.

Note: 1. When the recording function of the device button is **turned on** , the high-definition recording function and the shock automatic recording function are disabled and cannot be clicked.

2. When the recording function of the device button is **turned off** , the high-definition recording function and the shock automatic recording function are enabled, and you can choose on/off.

3. When the impact automatic recording is turned on, the recording function of the button is disabled;

4. When HD video recording is turned on, the wifi function needs to be turned off. At this time, the key recording quality is high-definition; the impact automatic recording is also high-definition.

4 . **Ranging timing:** off/1min/3min/10min/30min, turn off the ranging after the set time (factory default off)

5 . Standby time : off / 2min/4min/6min (factory default off)

(It is necessary to identify whether the device is in the shooting state_placed horizontally, and does not stand by in the shooting state; when the device is in the following state, the standby is activated: up>70°down>70°, left>30°right>30°)

6. Laser ranging calibration: Short press M to enter laser calibration: display X-axis, Y-axis, Default cursor returns to factory settings. (factory function hidden)

a. The ↑↓ keys cycle through the three options, and short press the M key to confirm the options. When confirming the X-axis or Y-axis calibration, the ↑ cursor moves to the right, the ↓ cursor moves to the left (X-axis); the ↑ cursor moves up, and the ↓ cursor moves down (Y-axis), and short press the M key again to cancel the selection.

b . When the arrow points to Default , short press the M key, and the cursor returns to the original position of Default .

c . Short press the ↑↓ key, move 1px each time, long press the ↑↓ key, move 10px at a time.

Default will be set when leaving the factory, the arrow points to Default, long press the ↑+↓ key to activate and adjust the position of Default: adjust the X axis and Y axis, after confirming the position of the small cross, short press the M key to save.

7. Pixel defect calibration: short press M to enter pixel defect calibration: open PIP (256 px × 1 92 px) in the lower

left corner of the screen, the PIP display area will follow the cursor position set to move. ↑↓ key to switch X axis, Y axis, short press M key to confirm the selected item, ↑↓ key can move the position of the cursor on the screen - X axis or Y axis.

For example: select the X-axis, move the ↑ cursor to the right, and ↓ the cursor to the left; after the X-axis position is determined, you need to press the M key to confirm the selection and re-select and adjust the X-axis and Y-axis. (Blind element correction often needs to adjust the X-axis and Y-axis separately before adding/deleting blind element points)

The number of pixel defect points is displayed below, the cursor moves to the position where pixel defect calibration is required, short press the power key to add a pixel defect point, Add is displayed in PIP; at the same position, short press the power key again to delete the pixel defect point, PIP Displays Del. Move the cursor to the vicinity of the PIP, and the PIP, the X-axis, the Y-axis, and the number of blind elements are uniformly moved to the upper left corner. Long press M to display a prompt box asking whether to save this operation, yes/no.

8. Compass calibration: Short press M to enter compass calibration: a calibration prompt appears, 38 s default calibration ends and exits.

Set the user to exit : long press the M key to directly return to the main interface; short press the power key to return to the main menu.

9. Settings: Short press M to enter settings, ↑ and ↓ keys can select options up and down.

9.1 Date setting: short press M to activate the date setting, the arrow indicates the current modifiable item, short press or long press the ↑ key, ↓ key to set the correct date, short press M to switch year/month/day, long press M key to save and exit the date setting.

9.2 Time setting : The time adopts a 24-hour system , and the hour and minute are displayed . Short press M to set the time, and short press or long press the ↑ key and ↓ key to set the correct hour and minute.

Short press M to switch hour/minute, long press M to save and exit the time setting. The status bar time changes accordingly.

9.3 Language selection : Short press M to enter the language selection, ↑ key, ↓ key to select language switching, short press M to confirm the selection, the selected item flashes once to save the option and return to the setting.

9.4 Unit setting : Short press M to enter the unit setting, ↑ key, ↓ key to select the measurement unit, short press M to confirm the selection, the selected item flashes once to save the option and return to the setting.

9.5 Auto-hide : short press M to enter, ↑ key, ↓ key to select on or off, short press M to select the item and flash once to save the option and return to the setting.

9.6 Restore factory settings : short press M to enter, ↑ key, ↓ key to select yes or no, short press M to confirm the option. Y ES _ Device reboot . N O_Return to the previous menu .

9.7 Device information: Short press M to enter the device information, you can view the device name, hardware version number, software version number, Wi-Fi device model, etc.

Press the power button to return to the previous level, and long press the M button to return to

the main interface.

Factory function hidden: cross reticle, gun calibration, calibration gun distance, laser indication, laser ranging, laser ranging calibration

Part6. The laser indication is hidden or turned on (to be determined)

In the main interface, press and hold the - ↑ key ↓ key M key at the same time for 10s to switch to no laser indication state, and perform a shutter correction confirmation switch at the same time; again in the main interface, long press - ↑ key ↓ key M key at the same time 10s, you can switch back to the normal state, and perform a shutter correction confirmation switch at the same time.

When the laser pointer is hidden, the on/off function of the laser pointer and the laser cross calibration function in the advanced menu are disabled at the same time.

FCC ：

1. 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,

(2) this device must accept any interference received, including interference that may cause undesired operation.

2. Any Changes or modifications not expressly approved by the party responsible for compliance 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.

Frequency range of WLAN radio module: 2412-2462 MHz

This device complies with RF exposure requirements for general population exposure conditions