



oneleaf.ai

Mars mini



User Manual



ATTENTION

When using a monocular, it may cause eye fatigue or temporary blindness, but recovery will occur after stopping use.

Please note the following points when using a monocular :

I. Focusing

1. ****Correct Focusing****

- Before observing with a monocular, ensure that the monocular is correctly focused. Failure to do so may lead to excessive eye adjustment and visual fatigue. For example, when observing a distant target, slowly turn the focusing knob until the target appears clearly. Avoid prolonged viewing when the image is blurred, as the eyes will constantly adjust their muscles to see the image clearly, which may cause eye muscle strain.

2. ****Avoid Frequent Focusing****

- Do not change the focus too frequently, rapidly switching from one distance target to another and repeatedly focusing. This will put the ciliary muscles of the eyes in a frequent state of tension and relaxation. For instance, when observing birds in the sky and scenery on the ground, switching back and forth too quickly can easily lead to eye fatigue or even dizziness.

II. Duration of Observation

1. ****Limiting Continuous Observation Time****

- It is not advisable to use a monocular for an excessively long period of time continuously. Prolonged observation through a monocular can reduce the blinking rate of the eyes. Normally, people blink 15-20 times per minute, but during focused observation, this may decrease to just a few times per minute. This can lead to an uneven distribution of the tear film on the surface of the eyes, easily causing eye dryness. It is generally recommended to take a break of 2-3 minutes after 15-20 minutes of continuous observation, during which time you can look at distant natural scenery or close your eyes to rest.

2. ****Avoiding Prolonged Observation in Bright Light****

- If you are observing in a bright light environment (such as observing the sun, which is a very dangerous act and requires the use of specialized solar filters) or observing high-brightness targets for an extended period (such as objects in snowy landscapes due to the intense reflection of snow), the retina of the eyes is susceptible to damage. In such cases, the duration of observation should be more strictly limited, and appropriate shading devices or light filters should be used.

III. Observation Environment Aspects

1. ****Stable Observation Posture****

- Maintaining a stable observation posture is crucial. If the posture is unstable, the monocular is prone to shaking, causing the eyes to constantly adjust their gaze direction to track the target. For example, when holding a monocular, keep your arms stable or use auxiliary equipment such as a tripod. Unstable observation can cause extra strain on the eye muscles, leading to fatigue and discomfort.

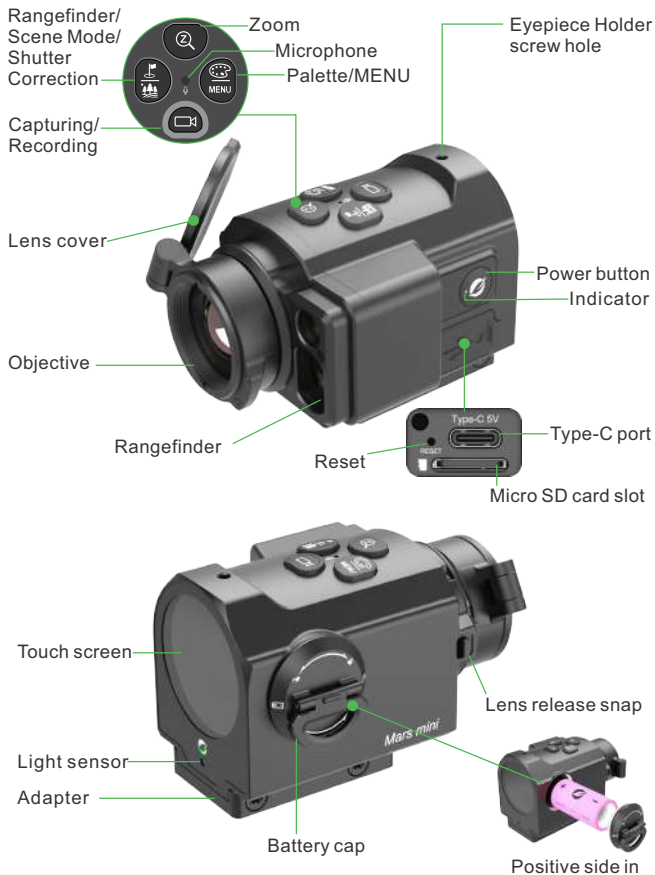
2. ****Avoid Dust and Foreign Objects****

- When using a monocular, ensure that there is no dust, sand, or other foreign objects around the lenses and eyepiece. When using it in environments with heavy wind and dust, be particularly careful to protect the monocular and avoid foreign objects entering the eyepiece and coming into contact with the eyes. If a foreign object enters the eye, do not rub it. Instead, rinse it with clean water as soon as possible or seek medical assistance.

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PRODUCT IMAGE
















FUNCTIONS









Button Functions







Button	Current State	Short Press	Press and hold	Double-click
Power 	OFF	/	Press for 3S to turn ON	/
	ON	Short press to sleep or wake	Press for 3S to turn OFF	/
UP 	Home Screen	Zoom in/ Zoom out	Turn ON/ OFF WiFi	/
	Shot zero	Increase Y value /Move up	/	/
	Ballistic parameters	Increase value	Rapid Increase value	/
Down 	Home Screen	Capturing	Start/Pause recording	/
	Shot zero	Decrease Y value /Move down	Open Save Box →Short press→ Save parameter	/
	Ballistic parameters	Decrease value	Rapid decrease value	/
	Lid calibration	Calibrate	/	/
Left 	Home Screen	Turn ON/OFF rangefinder	Switch Scene Mode	Shutter Correction
	Shot zero	Decrease X value /Move left	/	/
	MENU	Move up / down	/	/
Right 	Home Screen	Switch Palette	Enter MENU	/
	Shot zero	Increase X value /Move right	/	/
	MENU	Confirm	Exit MENU	/
	Ballistic parameters	Confirm	Exit	/
	Press simultaneously the left+up button to turn it on/off button backlight			
Reset 	When abnormal situation occurs, press reset to shut down the device			

Touch Functions

Current Interface	Operation	Function
<p>Home Screen</p> 	Two-finger spread 	Digital zoom in (1x to 6x)
	Two-finger pinch 	Digital zoom out (6x to 1x)
	Swipe left 	Switch Scene Mode
	Swipe right 	Switch Palette
	Swipe up 	Switch reticle color
	Swipe down 	Switch reticle type
	Quick double-tap 	Enter MENU

MENU	Swipe left 	Exit MENU
	Swipe up 	Move the cursor up
	Swipe down 	Move the cursor down
	Tap 	Enter sub-menu
Secondary Menu (Sub-menu)	Tap 	Confirm

Shot Zero Adjustment Interface	Swipe left		Decrease X value
	Swipe right		Increase X value
	Swipe up		Decrease Y value
	Swipe down		Increase Y value
	Tap		Enter Shot Zero Save Interface
Shot Zero Save Interface	Swipe left		Select Position Group
	Swipe right		Select Position Group
	Tap		Save

Ballistic Parameters	Swipe up		Move the cursor up
	Swipe down		Move the cursor down
	Tap		Enter sub-menu
Sub Ballistic Parameters	Swipe up		Increase value /Move cursor
	Swipe down		Decrease value /Move cursor
	Tap		Confirm

SPECIFICATIONS

Mars mini

Item	Mars mini		
Resolution	640X512 (pixels)		
Display Resolution	720X720 (pixels)		
Pixel Pitch	12 (μm)		
NETD	<20 (mk)		
Objective Lens		19 (mm)	25 (mm)
Relative Aperture		F1.0 (D/f')	F1.0 (D/f')
Magnification		1X	1.6X
Digital Zoom	1-6X		
Field of View(HxV) Horizontal		22.85°	17.46°
Field of View(HxV) Vertical		18.37°	14.01°
Field of View(HxV) Diagonal		29.02°	22.25°
Detection Range		5m~800m	7.7m~800m
Eye Relief	800mm		
Reticle Type	7		
Reticle Color	White/Red/Green/Blue/Yellow		
Position	6		
Scene Mode	Snow/Fog/City/Forest/Rain		
Palette	White/Sepia/Ironbow/Rainbow/Night/ Red Hot/Jungle/Black		
Frame Rate	60HZ/ 30HZ/50HZ		
Video Format	Mp4		

Video Resolution	720X720 (pixels)		
Storage	32-256Gb		
Detachable Lens	YES		
Automatic Lens Recognition	YES		
Microphone	YES		
3D Gyroscope	YES		
Capacity	1600 (mAh)		
External Power Supply	USB 5V=1A Type-C		
Operating Time	3H		
Rangefinder	5-1500m / 5.47-1640yd		
Body Material	Aluminum		
Waterproof Rating	IPX6		
Adjustment Range	560MOA Windage X 640MOA Elevation		
Operating Temperature	-4 °F to +122°F		
Dimension		3x2.27x2 Inch	3.37x2.27x2 Inch
Weight (only body)		185 g / 0.4 lb	205 g / 0.45 lb
Warranty	3 Year		

Eyepiece Barrel

Eye Relief	110mm
Diopter Adjustment	+2D~-5D

NOTE: oneleaf.ai reserves the right to change the above specifications at any time without notice.

PREPARING

1. Unboxing

Package Contents:

➤ Mars mini



➤ Eyepiece Barrel



➤ Eyecup



➤ Adapter



➤ Type-C Cable



➤ Eyepiece Holder



➤ TF Card



➤ Warmer patch



➤ Wrench



➤ Lens Cloth



➤ Manual



➤ Velvet Bag



Do not directly aim the equipment at high-intensity thermal radiation sources, such as the sun, strong lasers, welding, etc. Gently wipe the lens using a soft cotton cloth or a lens cleaning cloth dampened with lens fluid. Avoid using any rough or abrasive materials to prevent scratches.

2. Power Supply

2.1 Powered by Battery

Battery Precautions:

- Please remove the insulating tab in the battery cover before use.
- Please turn off the Mars mini before removing and installing the battery.
- Do not install damaged batteries in the Mars mini.
- If the device is not in use for a long time, the battery shall be taken out of the device and stored in a dry place.
- The battery compartment is equipped with battery reverse connection protection. When the battery is reversed, Mars mini will power off and shut down.
- When the device is used under sub-zero temperatures, the battery capacity drops. This is normal and does not indicate a defect.

Battery Installation:

A. Lift the battery cover handle and rotate counterclockwise until the battery cover is removed.



B. Load battery (positive side in)



C. Install and tighten the battery cover.

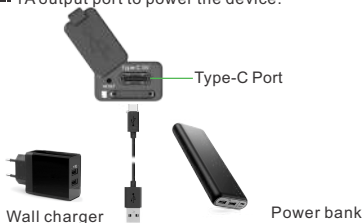


2.2 Powered by USB Type-C

- (1) The Mars mini includes a Type-C port, which can be found by opening the rubber cover on the left side of the device.
- (2) Use the Type-C cable included in the package.
- (3) Use a charger or rechargeable battery with 5V \equiv 1A output port to power the device.



Rubber cover



Note:

- Please use a charger or power bank with an output port of 5V \equiv 1A to power the Mars mini.
- Please put the battery into the Mars mini when charging.
- When charging the battery via Mars Mini, please turn off the device.
- Please turn off the Mars mini before removing and installing the battery.

3.Type-C Port / Micro SD Card Slot / Reset

When pulling the silicone cover on the left side of the Mars mini outward to expose the ports, make sure that none of the ports are exposed to water.

3.1 Type-C Port

(1) Power the Device

(2) Charge the Battery

- The indicator light is red when the device is turned off for charging, and the indicator light is off after it is fully charged.
- The indicator light changes from green to yellow when the device is turned on to charge, and changes from yellow back to green after it is fully charged.



Red indicator





Green indicator



Yellow indicator

- Charging when device turned off takes approximately **3.5** hours.

(3) Transferring Data

- Connect Mars mini to your computer via the Type-C cable. Long-press the power button  for 3 seconds to turn on Mini and wait for the computer to indicate that a removable disk has been detected. A prompt box  will pop up on the Mini screen. After that, you can use your computer to view photos and videos on the Micro SD card.
- When the device is successfully connected to the computer, if Type-C cable unplugged, the device will be shut down automatically.

Note: Before connecting your device to a PC, make sure that the device has a Micro SD card installed.

3.2 Micro SD Card Slot

> To install the Micro SD card:

Follow the icon and push the Micro SD card in with your finger in the correct direction until it locks in place.

> To remove the installed Micro SD card:

Gently press the Micro SD card and it will eject.




Note:

- The Micro SD card has only one correct loading direction, please do not force the card into the slot.
- Please operate slowly when removing the installed card.
- Use a Micro SD card with a read rate of C10 or higher and a capacity of 32Gb-256Gb.
- Do not remove the Micro SD card during recording.

3.3 Reset

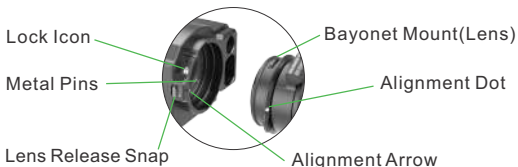
When abnormal situation occurs, press reset to shut down the device.

To reboot the device, press and hold the POWER button  for 3s to turn on the device.



4. OPERATION

4.1 Objective Lens Installation and Removal



When replacing the lens, please turn off the device.
Check that the lens and body are clean before installing it.



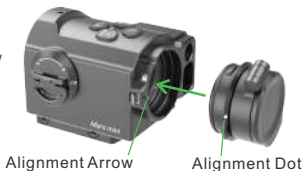
If the display appears to have an unclear picture, check that the glass surfaces in these 3 places are clean.

Note:

- When replacing the lens, please turn off the device.
- After replacing the lens, please calibrate the device by 'Lid Calibration' before use. (Refer to Lid Calibration section)
- Before installing the lens, please make sure that the bayonet, the lens connector and the pins are clean and free of dust.
- When storing equipment without a lens attached, ensure the body cap is on the body and the lens cap is on the lens.
- Remove stains and dust from the body cap and lens cap before installing them.
- Do not forcefully break the lens.

(1) Lens Installation

a. The lens release catch has a Alignment Arrow and the lens connector has a Alignment Dot, align the white dot with the Alignment Arrow on the device.



b. Load the lens, press down slightly and rotate the lens clockwise.



Push the lens inward until the Lens Release Snap moves back.



Rotate the lens clockwise.

c. When you hear a 'click', the lens is successfully installed.



Hear a 'click', the pin is back in place. Installed complete.

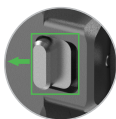
Make sure that the lens is installed successfully before releasing your finger from the lens.

(2) Lens Removal

A. Push the lens release catch down to the bottom (Hold the lens).

B. Rotate the lens counterclockwise.

C. Remove the lens outward.



A



B







C

Note: After reinstalling the lens, please carry out the zeroing operation again before use.

4.2 Lens Recognition

The device can automatically recognize the lens after loading different objective lenses.

When  is shown in the center-right section of the Home Screen, it means a focal length of 16mm,  means a focal length of 19mm,  means a focal length of 25mm, and  means no lens is installed.



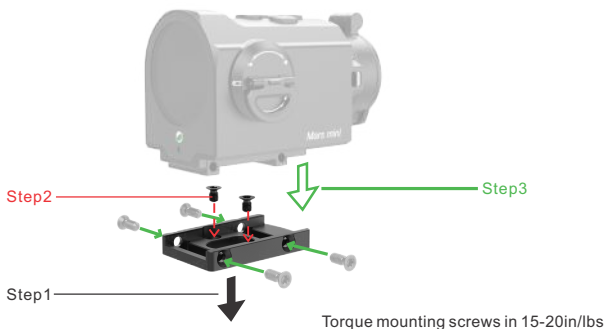
4.3 Mounting Adapter

- To ensure shooting accuracy, first fix the device to an appropriate position on the firearm.
- When shooting with the Mini, please carry out the zeroing operation first (Refer to the zeroing section in 19 page of the User's Manual.)
- It is recommended to use a torque wrench to tighten the screws of the installation clamps. It can avoid damaging the support locking mechanism due to being over-tightened, and the recommended torque shall not exceed 20 inches/lbs (in/lbs).


To mount the device to a firearm, you will need the adapter provided in the package.


Follow the steps below:

1. Align the mounting hole in the center of the adapter with the mounting posts on the firearm mount.
2. Use the included mounting screws and wrench tool to secure the adapter to the firearm.
3. Align the mounting holes on the sides of the Mini and adapter, and then use the included mounting screws and wrench tool to secure the Mini to the adapter.



4.4 Turn ON/OFF

Turn On: When the device is OFF, press and hold the POWER button  for 3 seconds until Welcome Logo displays, then the device will enter the main interface (To get the ideal thermal imaging, It is recommended to cover the lens cover and perform a 'Lid Calibration' after powering on the device).

Turn Off: When the device is ON, long press the POWER button  for 3 seconds, the device will be turned off after appearing Sys Poweroff prompt box.




Welcome Logo





Power off Prompt Box

If the device has an abnormal situation, long press 8 seconds to force shutdown.

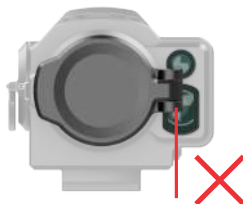
4.5 Rangefinder

In the Home screen, short-press the left button  to turn on/off the rangefinder. Once activated, a ranging box will appear on the screen.

If ranging data is available, the ranging box will turn green  and the distance is displayed in real-time in the upper-right corner. If no ranging data or out of the range, the ranging box will turn red .



Rangefinder



Note: Obstructing the ranging window will cause measurement failure. Keep the area in front of the window clear of any obstructions.

4.7 Mounting Eyepiece barrel

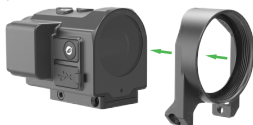
To attach the eyepiece barrel and rubber eyecup to the Mars mini, you will need the eyepiece holder provided in the package.

Follow the steps below:

1. Remove the two screws from the mounting holes on the side of the mini and the adapter using the included wrench tool.



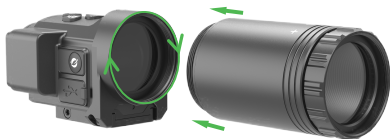
2. Align the three holes in the eyepiece holder with the two holes mentioned above and the mini's top mounting hole.



3. Secure the eyepiece holder to the mini using the supplied mounting screws and wrench tool.



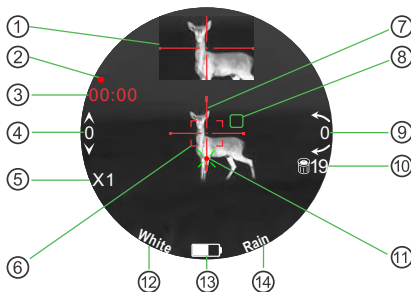
4. Screw the eyepiece barrel into the eyepiece holder.











5. Screw the rubber eyecup into the eyepiece barrel.



HOME SCREEN









- ① **Picture in Picture:** Zoom in to show the center of focus.
- ② **Prerecord Video:** When the prerecord video function is enabled, the device automatically begins recording upon detecting recoil (ShotActivated Recording).
- ③ **Recording Time:** Long press the Record button  to start recording, and the time will increase during the recording process. Press the button again  to stop recording, and the recording time icon disappears. Set auto-save time 2min/3min/5min/10min in the MENU.
- ④ **Gyro Pitch:** Based on the internal 3D gyro tilt.
- ⑤ **Digital Zoom:** Default x 1.0, maximum x 6.0.
- ⑥ **Capture:** Short press the Record button  to take a photo, the photo icon will appear on the Home Screen.
- ⑦ **Reticle:** Used for aiming.
- ⑧ **Ranging spot icon:** indicates the position of the ranging spot, and the ranging data follows the top right corner of the icon.
- ⑨ **Gyro Roll Angle:** Displays the Mini's tilt based on the internal 3D gyroscope
- ⑩ **Lens Recognition:**  means 16mm lens;  means 19mm lens;  means 25mm.
- ⑪ **Falling point:** the falling point is given based on the reticle and ballistic parameters when ballistic is turned on. (Note: If you do not want the falling point to be displayed on the Home Screen, please enter the MENU and turn off the Ballistic Switch on the Ballistic settings page. After turning it off, the falling point will no longer be displayed on the Home Screen)
- ⑫ **Palette:** Short press the Right button  to switch among 8 modes, White/Sepia/Ironbow/Rainbow/Night/Red Hot/Jungle/Black
- ⑬ **Battery:** There are 5 levels, each level represents 20% of the battery, the icon will cycle in a step-by-step incremental style when charging.
- ⑭ **Scene Mode:** Long press the left button  to switch among Snow/Fog/City/Forest/Rain.






MENU






















Menu Navigation














> Button Operations

- Long press the Right button  on the Home Screen to enter the MENU.
- Short press the  /  button to select the previous or next option. Short press the Left button  to jump to the previous menu. Short press the Right button  to enter the next menu.
- In the MENU, long press the right button  to exit the MENU and return to the Home Screen.

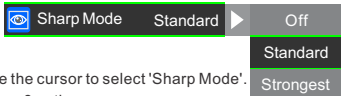
> Touch Operations

- Tap the screen twice  on the Home Screen to enter the MENU.
- Swipe  /  to select the previous or next option. Tap  the screen to enter the next menu.
- In MENU, swipe  to exit MENU and return to the Home Screen.

Settings  1/5	Settings  1/5	Settings  1/5
 Sharp Mode Standard	 Palette White	 Prerecord Video Off
 Reticle Type 1	 Scene Mode Forest	 Protect Level High
 Shot Zero	 Movie Mode 60HZ	 FFP&SFP FFP
 Reticle Color Red	 Movie Clip 2min	 Unit Yard
 Position X:360 Y:360	 Sound Record On	 Gyro Calibration
 Ballistic Off	 LCD Brightness Auto	 PIP Off

Settings  1/5	Settings  1/5
 Contrast 49	 OSD Switch UI OSD
 Shutter Auto	 Format SD-Card
 Auto blind	 Language English
 Lid Calibration	 Version&Card Info
 Stamp Date+Logo	 Reset Setup
 Clock Setting	

Sharp Mode



> Button Operations

Short press the / button to move the cursor to select 'Sharp Mode'.
Short press the Right button to bring up 3 options (Off / Standard / Strongest). Short-press the / button to select an option.
Short press the Right button to save the setting.

> Touch Operations

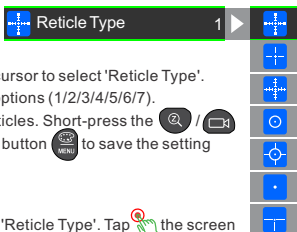
Swipe / to move the cursor to select 'Sharp Mode'. Tap the screen to bring up 3 options (Off / Standard / Strongest). Swipe / to select an option. Tap the screen to save the setting.

OFF: Image display when Sharp mode view technology is turned off.

Standard: Image display when Sharp mode view technology is turned on.

Strongest: Image display when Sharp mode view technology is strongest.

Reticle Type



> Button Operations

Short press the / button to move the cursor to select 'Reticle Type'.
Short press the Right button to bring up 7 options (1/2/3/4/5/6/7).
They correspond to seven different styles of reticles. Short-press the / button to select the style. Short press the Right button to save the setting and return to the MENU.

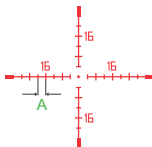
> Touch Operations

Swipe / to move the cursor to select 'Reticle Type'. Tap the screen to bring up 7 options (1/2/3/4/5/6/7). They correspond to seven different styles of reticles. Swipe / to select the style. Tap the screen to save the setting and return to the MENU.

Shortcut: Swipe down in the Home Screen to instantly switch reticle types.

Reticle type 1

Digital zoom	1-6X
Section	A
Mil@100yd	4



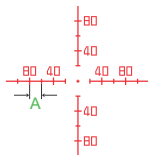
Reticle type 2

Digital zoom	1-6X
Section	A
Mil@100yd	8



Reticle type 3

Digital zoom	1-6X
Section	A
MOA@100yd	20



Reticle type 4

Digital zoom	1-6X
Section	A
MOA@100yd	32



Reticle type 5

Digital zoom	1-6X	1-6X
Section	A	B
MOA@100yd	56	70

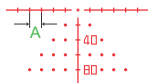


Reticle type 6

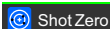


Reticle type 7

Digital zoom	1-6X
Section	A
MOA@100yd	20



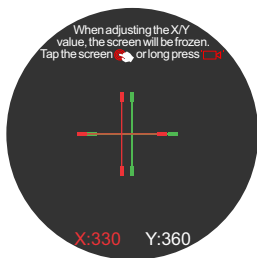
Shot Zero



> Button Operations

1. Short press the button to move the cursor to select 'Shot Zero'. Short press the Right button to enter the adjustment interface to adjust the position of the reticle.
- Short press the Left button , the X value decreases and the red reticle moves to the left. Short press the Right button , the X value increases and the red reticle moves to the right.

When adjusting the X/Y value, the screen will be frozen.

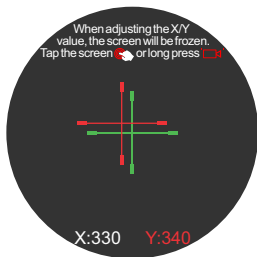


Short press the Left button,
the X value decreases

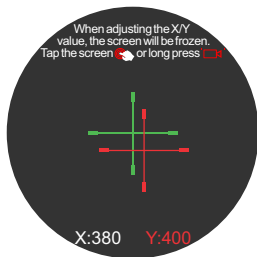


Short press the Right button,
the X value increases

- Short press the Up button , the Y value decreases and the red reticle moves up. Short press the Down button , the Y value increases and the red reticle moves down. (The green reticle is the starting position)



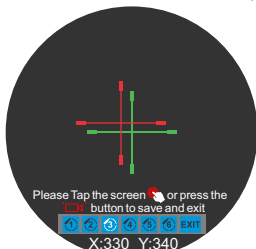
Short press the Up button,
the Y value decreases



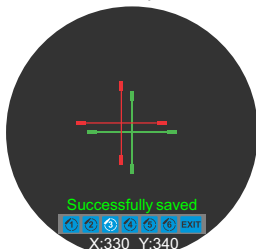
Short press the Down button,
the Y value increases

2. Long press down button to bring up the Position options.

3. Short press the / button to select save data into Position 1-6 (the selected Position will turn white). Short press the down button to confirm the selection. After Position is saved successfully, the device will automatically return to the MENU;

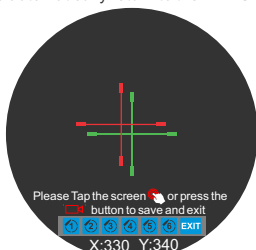


Position 3 is selected

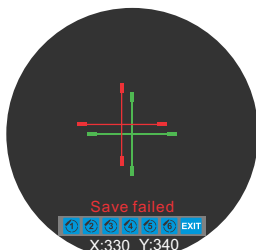


Successfully saved

- Select **EXIT**, short press down button to confirm the selection, the Position save failed and automatically return to the MENU.



Select EXIT

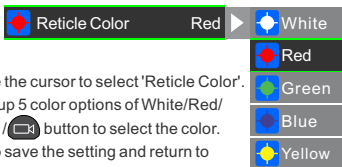


Save failed

> Touch Operations

- Swipe to move the cursor to select 'Shot Zero'. Tap the screen to enter the adjustment interface to adjust the position of the reticle.
 - Swipe left , the X value decreases and the red reticle moves to the left. Swipe right , the X value increases and the red reticle move to the right.
 - Swipe up , the Y value decreases and the red reticle moves up. Swipe down , the Y value increases and the red reticle moves down.
- Tap the screen to bring up the Position options.
- Swipe to select save data into Position 1-6 (the selected Position will turn white). Tap the screen again to confirm the selection. After Position is saved successfully, the device will automatically return to the MENU; Select **EXIT**, tap the screen to confirm the selection, the Position save failed and automatically return to the MENU.

Reticle Color



> Button Operations

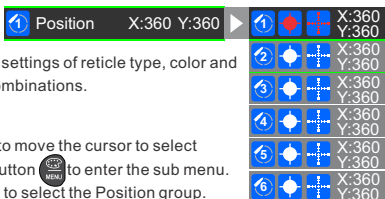
Short press the / button to move the cursor to select 'Reticle Color'.
Short press the Right button to bring up 5 color options of White/Red/
Green/Blue/Yellow. Short-press the / button to select the color.
Short press the Right button again to save the setting and return to
the MENU.

> Touch Operations

Swipe to move the cursor to select 'Reticle Color'. Tap the screen to bring up
5 color options of White/Red/Green/Blue/Yellow. Swipe to select the color.
Tap the screen again to save the setting and return to the MENU.

Shortcut: Swipe down in the Home Screen to instantly switch reticle types.

Position



Position represents the groups of settings of reticle type, color and
shot zero. There are 6 different combinations.

> Button Operations

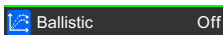
Short press the / button to move the cursor to select
'Position'. Short press the Right button to enter the sub menu.
Short-press the / button to select the Position group.
Short press the Right button again to save the setting and return to the MENU.

The Position 1 saved by default as reticle type 1, reticle color red, reticle coordinates
(360, 360). The other Positions are defaulted as reticle type 1, reticle color white,
and reticle coordinates (360, 360).

> Touch Operations

Swipe to move the cursor to select 'Position'. Tap the screen to enter
the sub menu. Swipe to select the Position group. Tap the screen again to save
the setting and return to the MENU.










Ballistic Parameters









The ballistic parameters allows you to quickly calculate the trajectory of a bullet and give
you the exact point of impact.











1. When the unit in the menu is set to Yard, all units in the ballistic parameter are
switched to imperial; When the unit in the menu is set to Meter, all units in the
ballistic parameters are switched to metric.
2. To ensure the accuracy of the parameters, please make sure that the units in the
ballistic parameters are the same as the actual measurement units.

➤ Button Operations








- (1) Long press the Right button  to enter MENU. Short press the  /  button to move the cursor to select 'Ballistic'. Short press the Right button  to enter the sub menu for parameter setting. Short press the  /  button to set ballistic parameters. Short press the Right button  again to save the setting. Long press the Right button  to return to the MENU. Long press the Right button  again to return to the Home Screen.

Settings		↕5
	Sharp Mode	Standard
	Reticle Type	1
	Shot Zero	
	Reticle Color	Red
	Position	X:360 Y:360
	Ballistic	Off


MENU

	Switch	On
	Group	A
	Coefficient	0.029
	Model	G1
	Weight(gr)	15.59
	Velocity(ft/s)	900
	Zero Range(yd)	20
	Sight Height(In)	2.00
	Wind Speed(mph)	0.1
	Wind Angle(deg)	1

SUB-MENU

- (2) In the Home Screen, Short press the Left button  to turn on both the rangefinder and ballistic functions, and  will be displayed on the screen. Aim the rangefinder cursor  at the target and  will move according to the ballistic parameters and actual distance. After determining the target position, short press the Left button  to lock  and turn off the rangefinder function.
- (3) Align  with the point of aim.



Short press the   button to select ballistic parameters.


Short press the Right button  to the ballistic parameters setting interface.


Unit	Yard	Yard
		Meter

ON/OFF	Switch	On	
	Group	A	
	Coefficient	0.029	
	Model	G1	
	Weight(gr)	15.59	Unit: Grain
	Velocity(ft/s)	900	Unit: ft/s
	Zero Range(yd)	20	Unit: yard
	Sight Height(In)	2.00	Unit: Inches
	Wind Speed(mph)	0.1	Unit: mph
	Wind Angle(deg)	1	Unit: deg





Unit	Yard	Yard
		Meter


ON/OFF	Switch	On	
	Group	A	
	Coefficient	0.029	
	Model	G1	
	Weight(g)	1.010	Unit: g
	Velocity(m/s)	274.32	Unit: m/s
	Zero Range(m)	18.29	Unit: m
	Sight Height(cm)	5.08	Unit: cm
	Wind Speed(m/s)	0.045	Unit: m/s
	Wind Angle(deg)	1	Unit: deg



These parameters determine  trajectory and accuracy. When using Mars mini , please adjust these parameters according to your actual situation and needs to get the best performance.


If your  is beyond the reasonable range set by the system, the system will prompt .


> Touch Operations


(1) In the Home Screen, tap  the screen twice enter MENU. Swipe  to move the cursor to select 'Ballistic'. Tap  the screen to enter the ballistic parameters setting interface. Swipe  to set ballistic parameters. Tap the screen to save the setting.

Swipe left  to return to the Home Screen.

(2) In the Home Screen, Short press the Left button  to turn on both the rangefinder and ballistic functions, and  will be displayed on the screen. Aim the rangefinder cursor  at the target and  will move according to the ballistic parameters and actual distance. After determining the target position, short press the Left button  to lock  and turn off the rangefinder function.

(3) Align  with the point of aim.

Swipe  to select ballistic parameters.

Tap  the screen to enter to the ballistic parameters setting interface.



> Button Operations

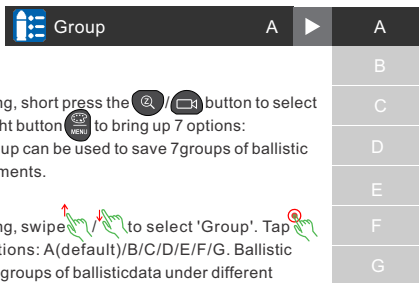
In the ballistic parameters setting interface, short press the / button to move the cursor to select 'Switch'.

Short press the Right button to bring up 2 options: On/Off. Defaulted Off.

While Ballistic Switch is ON, short press the Left button to turn on the ballistic function; While Ballistic Switch is OFF, short press the Left button in the Home Screen will only turn on the ranging function. The ballistic function will not be activated, and the falling point will not appear. After selecting Ballistic Switch option, short press the Right button to confirm the setting.

> Touch Operations

In the ballistic parameters setting interface, swipe to move the cursor to select 'Switch'. Tap the screen to bring up 2 options: On/Off. Defaulted Off. While Ballistic Switch is ON, Tap the screen to turn on the ballistic function; While Ballistic Switch is OFF, short press the Left button in the Home Screen will only turn on the ranging function. The ballistic function will not be activated, and the falling point will not appear. After selecting Ballistic Switch option, tap the screen to confirm the setting.



> Button Operations

In Ballistic Parameters setting, short press the / button to select 'Group'. Short press the Right button to bring up 7 options: A/B/C/D/E/F/G. Ballistic Group can be used to save 7 groups of ballistic data under different environments.







> Touch Operations

In Ballistic Parameters setting, swipe to select 'Group'. Tap the screen to bring up 7 options: A(default)/B/C/D/E/F/G. Ballistic Group can be used to save 7 groups of ballistic data under different environments.








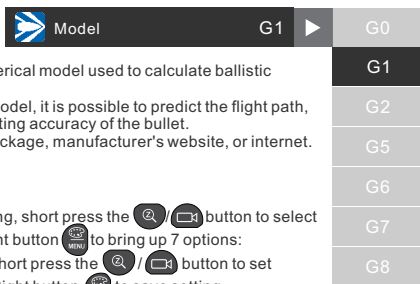
The indicator of a bullet's ability to overcome air resistance in flight. The ballistic coefficient a bullet can be found by the bullet package box, the manufacturer's website, or searching the internet.

➤ Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Coefficient'. Short press the Right button  to enter setting interface. Short press the Down button  to decrease value by 0.001, short press the Up button  to increase value by 0.001. Short press the Right button  to save setting.

➤ Touch Operations

In Ballistic Parameters setting, swipe  to select 'Coefficient'. Tap  the screen to enter setting interface. Swipe  to decrease value by 0.001, swipe  to increase value by 0.001. Tap  the screen to save setting.









The ballistic model is a numerical model used to calculate ballistic trajectories.





Depending on the ballistic model, it is possible to predict the flight path, point of impact and the shooting accuracy of the bullet.

It can be found at product package, manufacturer's website, or internet. If unsure, use G1.

➤ Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Model'. Short press the Right button  to bring up 7 options: G0/G1/G2/G5/G6/G7/G8. Short press the  /  button to set parameter, short press the Right button  to save setting.

➤ Touch Operations









In Ballistic Parameters setting, swipe  to select 'Model'. Tap  the screen to bring up 7 options: G0/G1/G2/G5/G6/G7/G8. Swipe  to set parameter, tap  the screen to save setting.



The weight of the bullet affects the kinetic energy of the bullet at range.



It can be found on the package, or on the cartridge case. If unsure, use an scale. Be careful the units on the scale.




➤ Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Weight' and short press the Right button  to adjust the value. Grains in imperial, g in metric. When unit in grains, short press the Down button  to decrease value by 0.01 grains, short press the Up button  to increase value by 0.01 grains. When unit in g, the allowable deviation is within plus or minus 0.01. Short press the Down button  to decrease value, short press the Up button  to increase value. Short press the Right button  to save setting.

> Touch Operations

In Ballistic Parameters setting, swipe  to select 'Weight' and tap  the screen to adjust the value. Grains in imperial, g in metric.






When unit in grains, swipe  to decrease value by 0.01 grains, swipe  to increase value by 0.01 grains.




When unit in g, the allowable deviation is within plus or minus 0.01. Swipe  to decrease value, swipe  to increase value. Tap  the screen to save setting.



This refers to the velocity in the trajectory, i.e. the speed of the bullet after it leaves the barrel. The velocity of the bullet after it leaves the barrel. Please use a timer to calculate the speed of the bullet leaving the barrel, or refer to the data provided by the bullet manufacturer.






> Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Velocity' and short press the Right button  to adjust the value. Ft/s is imperial unit, m/s is metric unit. When unit in ft/s, short press the Down button  to decrease value by 1 ft/s, short press the Up button  to increase value by 1 ft/s.

When unit in m/s, the allowable deviation is within plus or minus 0.7m/s. Short press the Down button  to decrease value, short press the Up button  to increase value. Short press the Right button  to save setting.

> Touch Operations






In Ballistic Parameters setting, swipe  to select 'Velocity' and tap  the screen to adjust the value. Ft/s is imperial unit, m/s is metric unit.




When unit in ft/s, swipe  to decrease value by 1 ft/s, swipe  to increase value by 1 ft/s. When unit in m/s, the allowable deviation is within plus or minus 0.7m/s. Swipe  to decrease value, swipe  to increase value. Tap  the screen to save setting.











Distance between the bullet and the zeroing point.

> Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Zero Range' and short press the Right button  to adjust the value. Yard is imperial unit, M is metric unit. When unit in yard, short press the Down button  to decrease value by 1 yard, short press the Up button  to increase value by 1 yard.

When unit in m, the allowable deviation is within plus or minus 0.7m. Short press the Down button  to decrease value, short press the Up button  to increase value. Short press the Right button  to save setting.









> Touch Operations

In Ballistic Parameters setting, swipe  /  to select 'Zero Range' and tap  the screen to adjust the value. Yard is imperial unit, M is metric unit. When unit in yard, swipe  to decrease value by 1 yard, swipe  to increase value by 1 yard. When unit in m, the allowable deviation is within plus or minus 0.7m. Swipe  to decrease value, swipe  to increase value. Tap  the screen to save setting.











Distance between the scope optic center and the barrel center. Please measure with a scale.

> Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Sight Height' and short press the Right button  to adjust the value. Inches is imperial unit, cm is metric unit. When unit in Inches, short press the Down button  to decrease value by 0.01 Inches, short press the Up button  to increase value by 0.01 Inches. When unit in cm, the allowable deviation is within plus or minus 0.1cm. Short press the Down button  to decrease value, short press the Up button  to increase value. Short press the Right button  to save setting.









> Touch Operations

In Ballistic Parameters setting, swipe  /  to select 'Sight Height' and tap  the screen to adjust the value. Inches is imperial unit, cm is metric unit. When unit in Inches, swipe  to decrease value by 0.01 Inches, swipe  to increase value by 0.01 Inches. When unit in cm, the allowable deviation is within plus or minus 0.1cm. Swipe  to decrease value, swipe  to increase value. Tap  the screen to save setting.










Average wind velocity during the flight of the bullet. It can be measured by anemometer, or refer to the table above.

> Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Wind Speed' and short press the Right button  to adjust the value. Mph is imperial unit, m/s is metric unit. When unit in mph, short press the Down button  to decrease value by 0.1mph, short press the Up button  to increase value by 0.1mph. When unit in m/s, the allowable deviation is within plus or minus 0.1m/s. Short press the Down button  to decrease value, short press the Up button  to increase value. Short press the Right button  to save setting.

> Touch Operations

In Ballistic Parameters setting, swipe  to select 'Wind Speed' and tap  the screen to adjust the value. Mph is imperial unit, m/s is metric unit. When unit in mph, swipe  to decrease value by 0.1mph, swipe  to increase value by 0.1mph. When unit in m/s, the allowable deviation is within plus or minus 0.1m/s. Swipe  to decrease value, swipe  to increase value. Tap  the screen to save setting.



The direction of the wind blowing towards the bullet path.







0° The wind is blowing toward the shooter's face.

90° The wind is blowing to the shooter's right side.





180° The wind is blowing toward the back of the shooter.

270° The wind is blowing to the left side of the shooter.

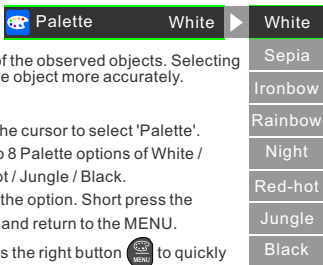
> Button Operations

In Ballistic Parameters setting, short press the  /  button to select 'Wind Angle' and short press the Right button  to adjust the value. The unit is deg. Short press the Down button  to decrease value by 1deg, short press the Up button  to increase value by 1deg. Short press the Right button  to save setting.

> Touch Operations

In Ballistic Parameters setting, swipe  to select 'Wind Angle' and tap  the screen to adjust the value. The unit is deg. Swipe  to decrease value by 1deg, swipe  to increase value by 1deg. Tap  the screen to save setting.


Palette







Palette is used to improve the recognition of the observed objects. Selecting different palette will allow you to observe the object more accurately.

> Button Operations

Short press the  /  button to move the cursor to select 'Palette'.

Short press the Right button  to bring up 8 Palette options of White / Sepia / Ironbow / Rainbow / Night / Red-hot / Jungle / Black.

Short-press the  /  button to select the option. Short press the Right button  again to save the setting and return to the MENU.

Shortcut: In the Home Screen, short press the right button  to quickly switch among palettes.

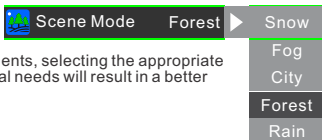
> Touch Operations

Swipe  to move the cursor to select 'Palette'. Tap  the screen to bring up 8 Palette options of White / Sepia / Ironbow / Rainbow / Night / Red-hot / Jungle / Black.

Swipe  to select the option. Tap  the screen again to save the setting and return to the MENU.

Shortcut: In the Home Screen, swipe  to quickly switch among palettes.

Scene Mode



When the Mini is used in different environments, selecting the appropriate scene according to the actual environmental needs will result in a better image display.

> Button Operations

Short press the / button to move the cursor to select 'Scene Mode'.

Short press the Right button to bring up 5 options: Snow / Fog / City / Forest / Rain.

Short press the / button to select the option. Short press the Right button again to save the setting.

Shortcut: In the Home Screen, long press the Left button to quickly switch among Scene Modes.

> Touch Operations

Swipe / to move the cursor to select 'Scene Mode'. Tap the screen to bring up 5 options: Snow / Fog / City / Forest / Rain. Swipe / to select the option. Tap the screen again to save the setting.

Shortcut: In the Home Screen, swipe left to quickly switch among Scene Modes.

Snow : An environment when temperatures below 51.8°F(11°C) and dazzling light after snow covers the ground.

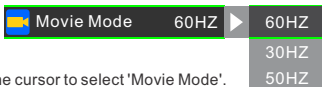
Fog : Low visibility environments, like foggy.

City : Urban area.

Forest : Environments where light is blocked by trees.

Rain : Environments with high air humidity, like rainy day.

Movie Mode



> Button Operations

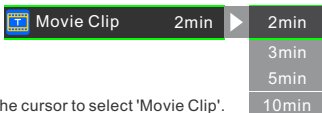
Short press the / button to move the cursor to select 'Movie Mode'.

Short press the Right button to bring up 3 options: 60HZ/30HZ/50HZ. Short press the / button to select the option. Short press the Right button again to save the setting.

> Touch Operations

Swipe / to move the cursor to select 'Movie Mode'. Tap the screen to bring up 3 options: 60HZ / 30HZ / 50HZ. Swipe / to select the option. Tap the screen again to save the setting.

Movie Clip



> Button Operations

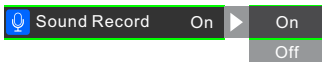
Short press the / button to move the cursor to select 'Movie Clip'.

Short press the Right button to bring up 4 options: 2min / 3min / 5min / 10min. Short press the / button to select the option. Short press the Right button again to save the setting.



> Touch Operations





Swipe  /  to move the cursor to select 'Movie Clip'. Tap  the screen to bring up 4 options: 2min / 3min / 5min / 10min. Swipe  /  to select the option. Tap  the screen again to save the setting.

Sound Record









> Button Operations

Short press the  /  button to move the cursor to select 'Sound Record'.

Short press the Right button  to bring up 2 options: On / Off. Short press the  /  button to select the option. Short press the Right button  again to save the setting.



> Touch Operations


Swipe  /  to move the cursor to select 'Sound Record'. Tap  the screen to bring up 2 options: On / Off. Swipe  /  to select the option. Tap  the screen again to save the setting.




LCD Brightness



> Button Operations

Short press the  /  button to move the cursor to select 'LCD Brightness'.

Short press the Right button  to bring up 5 options: Auto / 1 / 2 / 3 / 4.

Short press the  /  button to select the option. Short press the Right button  again to save the setting.

Auto
1
2
3
4

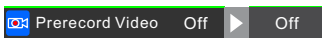
> Touch Operations

Swipe  /  to move the cursor to select 'LCD Brightness'. Tap  the screen to bring up 5 options: Auto / 1 / 2 / 3 / 4. Swipe  /  to select the option. Tap  the screen again to save the setting.




Auto: The screen brightness will be adjusted automatically according to the ambient light.

1/2/3/4: Manually select the desired screen brightness level: 1, 2, 3, or 4. Levels range from dim 1 to bright 4, with higher numbers indicating increased brightness.

Prerecord Video









> Button Operations

Short press the  /  button to move the cursor to select 'Prerecord Video'. Short press the Right button  to bring up 4 options:

Off / 5s / 10s / 15s. Short press the  /  button to select the option. Short press the Right button  again to save the setting.

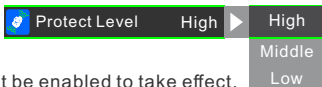
Off
5 s
10 s
15 s

> Touch Operations

Swipe  /  to move the cursor to select 'Prerecord Video'. Tap  the screen to bring up 4 options: Off / 5s / 10s / 15s. Swipe  /  to select the option. Tap  the screen again to save the setting.

When the prerecord video function is enabled, the device automatically begins recording upon detecting recoil (Shot Activated Recording). It captures and saves video footage from 5, 10, or 15 seconds before the recoil event.





Protect Level



The Prerecord Video function must be enabled to take effect.

> Button Operations

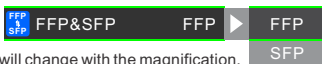
Short press the  /  button to move the cursor to select 'Protect Level'.

Short press the Right button  to bring up 3 options: High / Middle / Low. Short press the  /  button to select the option. Short press the Right button  again to save the setting.

> Touch Operations

Swipe  /  to move the cursor to select 'Protect Level'. Tap  the screen to bring up 3 options: High / Middle / Low. Swipe  /  to select the option. Tap  the screen again to save the setting.







FFP&SFP









When FFP is selected, the size of the reticle will change with the magnification.

When SFP is selected, the size of the reticle will not change with the magnification.

> Button Operations

Short press the  /  button to move the cursor to select 'FFP&SFP'. Short press the Right button  to bring up 2 options: FFP / SFP. Short press the  /  button to select the option. Short press the Right button  again to save the setting.







> Touch Operations

Swipe  /  to move the cursor to select 'FFP&SFP'. Tap  the screen to bring up 2 options: FFP / SFP. Swipe  /  to select the option. Tap  the screen again to save the setting.







Unit




> Button Operations

Short press the  /  button to move the cursor to select 'Unit'. Short press the Right button  to bring up 2 options: Yard / Meter. Short press the  /  button to select the option. Short press the Right button  again to save the setting.





> Touch Operations

Swipe  /  to move the cursor to select 'Unit'. Tap  the screen to bring up 2 options: Yard / Meter. Swipe  /  to select the option. Tap  the screen again to save the setting.





Gyro Calibration

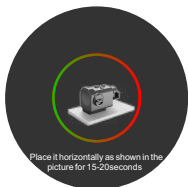
 Gyro Calibration

> Button Operations

Short press the  /  button to move the cursor to select 'Gyro Calibration'. Short press the Right button  to enter Gyro Calibration operation. Place the device horizontally for 15 to 20 seconds to operate calibration. Please follow the prompts until the screen indicates calibration success or failure. Short press the Right button  to exit Gyro Calibration.

> Touch Operations

Swipe  /  to move the cursor to select 'Gyro Calibration'. Tap  the screen to enter Gyro Calibration operation. Place the device horizontally for 15 to 20 seconds to operate calibration. Please follow the prompts until the screen indicates calibration success or failure. Tap  the screen again to exit Gyro Calibration.



Sub-interface





Calibration successfully









Calibration failed







PIP

 PIP On  On
Off

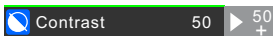
> Button Operations

Short press the  /  button to move the cursor to select 'PIP'. Short press the Right button  to bring up 2 options: On / Off. Short press the  /  button to select the option. Short press the Right button  again to save the setting.

> Touch Operations

Swipe  /  to move the cursor to select 'PIP'. Tap  the screen to bring up 2 options : On / Off. Swipe  /  to select the option. Tap  the screen again to save the setting.

Contrast



> Button Operations

Short press the / button to select 'Contrast' and short press the Right button to adjust the value. Short press the Down button to decrease value, short press the Up button to increase value.

Short press the Right button to save setting.

> Touch Operations

Swipe to select 'Contrast' and tap the screen to adjust the value.

Swipe to decrease value, swipe to increase value. Tap the screen to save setting.



Note: When the value is 50, the screen will automatically adjust the contrast according to the environment

Shutter



Shutter correction is to correct the unevenness of the image. Regular shutter correction can make the image to maintain uniformity. In the process of shutter correction usually comes with 'click' sound.

> Button Operations

Short press the / button to move the cursor to select 'Shutter Correction'. Short press the Right button to bring up 2 options: Auto / Manual. Short press the / button to select the option. Short press the Right button again to save the setting.

Shortcut: In the Home Screen, press the Left button twice to perform Shutter Correction.

> Touch Operations

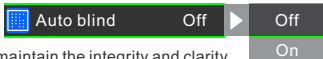
Swipe to move the cursor to select 'Shutter Correction'. Tap the screen to bring up 2 options: Auto / Manual. Swipe to select the option. Tap the screen again to save the setting.

Auto: the device automatically detects the temperature of the sensor, when the change value exceeds the system setting, the shutter will be closed and the image will be paused for 1 second to carry out the automatic shutter correction operation.

Manual: the device does not carry out automatic shutter correction, users need to operate shutter correction manually.

Note: When correcting, put on a lens cover or aim the device at a table or wall with even temperature.

Auto blind



To correct the blind points in the image to maintain the integrity and clarity of the image.

> Button Operations

Short press the / button to move the cursor to select 'Auto Blind Calibration'.

Short press the Right button to bring up 2 options: On/Off. Short press the / button to select the option. Short press the Right button again to save the setting.

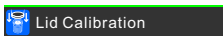
> Touch Operations

Swipe / to move the cursor to select 'Auto Blind Calibration'. Tap the screen to bring up 2 options: On/Off. Swipe / to select the option. Tap the screen again to save the setting.

During correction, two consecutive 'clicks' will be heard.

Note: When correction, please cover the lens cap or aim the device at a table or wall with even temperature.

Lid Calibration



By balancing the background temperature of the thermal detector, the Lid calibration eliminates image defects and improves the overall quality.

> Button Operations

Short press the / button to move the cursor to select 'Lid Calibration'.

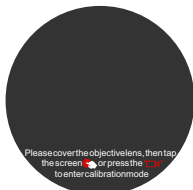
Short press the Right button to enter the calibration interface. Short press the button to start calibration. After successful calibration, a prompt box appears, and device return to the MENU.

> Touch Operations

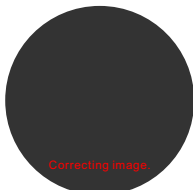
Swipe / to move the cursor to select 'Lid Calibration'. Tap the screen to enter the calibration interface. Tap the screen to start calibration. After successful calibration, a prompt box appears, and device return to the MENU.

Note: Please cover the lens cap when calibrating.

Suggestion: In order to get an ideal thermal imaging, it is recommended to calibrate the device when it is first turned on or after a long period time of using.



Lid Calibration Interface

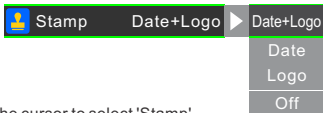


Calibrating



Calibration succeed

Stamp



> Button Operations

Short press the / button to move the cursor to select 'Stamp'.

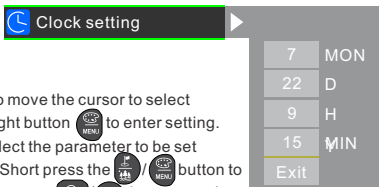
Short press the Right button to bring up 4 options: Date+Logo /

Date / Logo/Off. Short press the / button to select the option. Short press the Right button again to save the setting.

> Touch Operations

Swipe / to move the cursor to select 'Stamp'. Tap the screen to bring up 4 options: Date+Logo/Date/Logo/Off. Swipe / to select the option. Tap the screen again to save the setting.

Clock Setting



> Button Operations

Short press the / button to move the cursor to select 'Clock Setting'. Short press the Right button to enter setting.

Short press / button to select the parameter to be set (Year, Month, Day, Hour, Minute). Short press the / button to decrease/increase the value. Short press / button to select 'Exit' after setting the parameter and short press Right button to save.

> Touch Operations

Swipe / to move the cursor to select 'Clock Setting'. Tap the screen to enter setting. Swipe / to select the parameter to be set (Year, Month, Day, Hour, Minute). Swipe / to decrease/increase the value. Swipe / to select 'Exit' after setting the parameter and short press Right button to save.

OSD Switch UI



> Button Operations

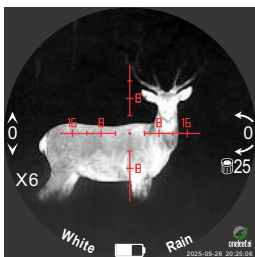
Short press the button to move the cursor to select 'OSD Switch UI'.

Short press the Right button to bring up 2 options: OSD / UI. Short press the button to select the option. Short press the Right button again to save the setting.

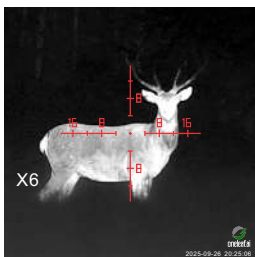
> Touch Operations

Swipe / to move the cursor to select 'OSD Switch UI'. Tap the screen to bring up 2 options: OSD / UI. Swipe / to select the option. Tap the screen again to save the setting.

OSD / UI: The difference is in the video and photo file interfaces.

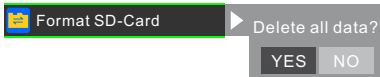


OSD



UI

Format SD-Card



> Button Operations

Short press the button to move the cursor to select 'Format SD-Card'.

Short press the Right button to call out the dialog box. When YES is selected, all data in the SD card will be formatted, and the message 'Format Complete' will be prompted when formatting is successful, when NO is selected, device will return to the MENU.

> Touch Operations



Swipe / to move the cursor to select 'Format SD-Card'. Tap the screen to call out the dialog box. When YES is selected, all data in the SD card will be formatted, and the message 'Format Complete' will be prompted when formatting is successful, when NO is selected, device will return to the MENU.


Language




A Language

English

> Button Operations

Short press the  /  button to move the cursor to select 'Language'.

Short press the Right button  to bring up options. Short press the

 /  button to select an option. Short press the Right button  again to save the setting.

Español
Português
Deutsch
Italiano
Polski
Français

> Touch Operations




Swipe  /  to move the cursor to select 'Language'. Tap  the screen to bring up options. Swipe  /  to select an option. Tap  the screen again to save the setting.

Version & Card Info

Version & Card Info

Total: 0.0GB
Available: 0.0GB
Used: 0.0GB

> Button Operations





Short press the  /  button to move the cursor to select 'Version & Card Info'. Short press the Right button  to view the version & Card Info: total capacity of SD card, available capacity, used capacity, system version number and version information.

Short press the Right button  again to return to the MENU.

0%

Version: 001
Information:
Mini05232025

> Touch Operations

Swipe  /  to move the cursor to select 'Version & Card Info'. Tap  the screen to view the version & Card Info: total capacity of SD card, available capacity, used capacity, system version number and version information. Tap  the screen again to return to the MENU.


Reset Setup


Reset Setup

Reset Setup?




YES NO

> Button Operations

Short press the  /  button to move the cursor to select 'Reset Setup'.

Short press the Right button  to call out the dialog box. When YES is selected, Mini will restore the factory settings, and it will not be restarted after reset. When NO is selected, Mini will return to the MENU.

> Touch Operations

Swipe  /  to move the cursor to select 'Reset Setup'. Tap  the screen to call out the dialog box. When YES is selected, Mini will restore the factory settings, and it will not be restarted after reset. When NO is selected, Mini will return to the MENU.

FIRMWARE UPDATE

1. Visit the official website: www.oneleaf.ai
2. Go to Download and find the correct firmware.
3. Download the latest firmware file and put it into the root directory of the micro SD card.
4. Insert the Micro SD card into the device.
5. Make sure the device has enough power, long press  to turn on the device.
6. The screen will light up and the system will be upgraded automatically.
7. Do not tap on the screen and operate the buttons on the Mini during the system upgrade process.
8. The device will enter Home Screen after firmware upgrade is done.
9. Long press MENU button  to enter MENU and select Format SD-Card.
10. Check whether the version number is upgraded to the corresponding version and reset the device.



Updating



Updated

- Please format the Micro SD card on the device before firmware upgrading.
- Please do not power off the device or remove the Micro SD card during firmware updating process.
- Please delete the file from the Micro SD card after firmware updating completed.

TROUBLESHOOTING

- The device cannot be turned on.
The battery runs out, please charge the battery.
- Green power indicator is on, but the screen is black.
Screen is standby, please press power button to awake the screen.
- Unevenness of screen display such as bright angle or dark angle, bright block or dark block appears after long time working.
Please cover the lens cap to perform Lid calibration.
- Mars mini cannot be powered by an external power supply.
Type-C cable is damaged, please change a new one.
- The screen is too dark.
Adjust LCD brightness in MENU.
- The icons on screen are clear but image is blurry.
 1. Wipe off the dust or dirt on the optical surface.
 2. Rotate the objective lens ring to adjust focus.
- Mini cannot connect to the computer.
 1. Check whether the port is loose.
 2. Please make sure the Micro SD card is in the Mars mini. Connect the device to computer first, then power on the device.