

Mars MT2000

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

+ Press simultaneously the left+up button to turn it on/off **button backlight.**



FUNCTIONS

Button Functions

Button	Current State	Short Press	Press and hold	Double-click
Power 	OFF	/	Press for 3 s to turn ON	/
	ON	Short press to sleep or wake	Press for 3 s to turn OFF	/
UP 	Home Screen	Zoom in/ Zoom out	Turn on/off PIP	/
	MENU	Move Up	Faster movement	/
	Shot Zero	Decrease value /Move Left / Move Up	Faster movement	/
	Pixel Defect Correction	Decrease value /Move Left / Move Up	Faster movement	/
	Ballistic parameters	Increase value	Rapid Increase value	/
Down 	Home Screen	Start/Pause recording	Switch Sharp Mode	/
	Shot Zero	Increase value /Move Right / Move Down	Faster movement	/
	Pixel Defect Correction	Increase value /Move Right / Move Down	Faster movement	/
	Ballistic parameters	Decrease value	Rapid decrease value	/
	Lid calibration	Calibrate	/	/

Button Functions

Button	Current State	Short Press	Press and hold	Double-click
Left 	Home Screen	Turn ON/OFF rangefinder	Switch Scene Mode	Manual Shutter
	MENU	Turn the page	/	/
	Shot Zero	Switch X/Y	/	/
Right 	Home Screen	Switch Palette	Enter MENU	/
	Shot zero	Switch X/Y	Exit	/
	Pixel Defect Correction	Switch X/Y	Exit	/
	MENU	Confirm	Exit MENU	/
	Ballistic parameters	Confirm	Exit	/
	Press simultaneously the left+up button to turn it on/off **button backlight**			
	Press simultaneously the left+down 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
Home Screen	Two-finger spread 	Digital zoom in (1x to 8x)
	Two-finger pinch 	Digital zoom out (8x to 1x)
	Swipe left 	Switch Palette
	Swipe right 	Switch Scene Mode
	Swipe up 	Switch color
	Swipe down 	Switch 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

Item	**Mars MT2000**
Sensor Resolution	1280X1024 (pixels)
Pixel Pitch	12 (μm)
NETD	<15 (mk)
Refresh Rate	50 Hz
Objective Lens	60 (mm)/F1.0 (D/f')
Field of View	14.7° x 11.7° @ 100m
Base Magnification	2.5X
Magnification	2.5X-20X
Detection Range	4m-3100m / 4.4yd-3390yd
Display Size	1.08inch
Display Resolution	1440X1440 (pixels)
Eye Relief	300mm
LRF Range	Daytime:3m~1600m Nighttime:3m~1950m
Automatic Lens Recognition	YES
Scene Mode	Normal/Rain/Forest/Fog/Soft/Line/Snow/City
Palette	White / Black / Rainbow / Iron-red / Red-hot / Aurora /Night / Blue-hot / Cyanblue
Reticle type	7
Reticle color	White / Red / Green / Blue / Black

Position	6
Video Format	Mp4
Video Resolution	1280X1280 (pixels)
Storage	32-256Gb
Detachable lens	YES
Microphone	YES
3D Gyroscope	YES
Electronic compass	YES
Capacity(mAh)	3200
External Power Supply	USB 5V⎓1A Type-C
Operating Time	5.5H
Body Material	Aluminum
Waterproof Rating	IPX7
Operate Temperature	-4 °F to +122°F
Accessory rail mount	Picatinny
Max recoil power on riflied weapon	1400G
Weight (Excludes Eyepiece)	619 g / 1. 36 lb
Dimension	159.4*98.8*79.6mm / 6.27*3.89*3.13in
Warranty	**3 Year**

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

Eyepiece Barrel-4X(Optional)

Eye Relief	90mm
Diopter Adjustment	+2D~-6D
Mounting Method	Threaded
Weight	92g / 0.2lb
Dimension	53.5*49*49mm / 2.1*1.9*19in

Eyepiece Barrel-5X(Optional)

Eye Relief	70mm
Diopter Adjustment	+2D~-6D
Mounting Method	Threaded
Weight	84.2g / 0.19lb
Dimension	43.5*49*49mm /1.7*1.9*1.9in

Eyepiece Barrel-6X(Optional)

Eye Relief	55mm
Diopter Adjustment	+2D~-6D
Mounting Method	Threaded
Weight	82g / 0.18lb
Dimension	40.5*49*49mm / 1.59*1.9*1.9in

PREPARING

1.Unboxing

Package Contents:

- Mars MT2000
- Eyepiece Barrel
- Eyecup
- Objective Lens
- Type-C Cable
- Storage Case
- TF Card
- Warmer patch
- Wrench
- Lens Cloth
- Manual
- Dust Cap

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.Powered by Battery

Battery Precautions:

- Please remove the insulating tab in the battery cover before use.
- Please turn off the Mars MT2000 before removing and installing the battery.
- Do not install damaged batteries in the Mars MT2000.
- 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 MT2000 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.
- The battery compartment holds up to two batteries. The device will operate normally with either one or two batteries installed.
- When installing batteries, ensure that the positive (+) terminals face inward.

Battery Installation:

A. Press both levers inward simultaneously to release the battery cover latches, then remove the battery cover.





B.Load battery (positive side in)



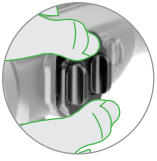
Note:
The device can operate with one battery installed.

If using two batteries, ensure that the positive (+) terminals of both batteries face inward.

Use only flat-top batteries.

C.Align the battery cover with the battery compartment, then press firmly until it clicks into place.





3.Type-C Port / Micro SD Card Slot

3.1 Type-C Port

(1) Power the Device

a. The Mars MT2000 includes a Type-C port, which can be found by opening the waterproof cover on the left side of the device.

b. Use the Type-C cable included in the package.

c. Use a charger or rechargeable battery with 5V ⎓ 1A output port to power the device.





- Please Use a 5V ⎓1A charger or power bank to power the MT2000.
- Please put the battery into the Mars MT2000 when charging.
- When charging the battery via Mars MT2000, please turn off the device.
- Please turn off the MT2000 before removing and installing the battery.

(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

(3) Transferring Data

- Connect Mars MT2000 to your computer via the Type-C cable. Long-press the power button for 3 seconds to turn on MT2000 and wait for the computer to indicate that a removable disk has been detected. A prompt box 

will pop up on the Mars MT2000 screen. After that, you can use your computer to view 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.

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.

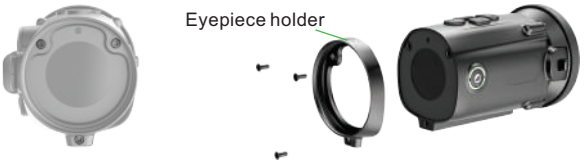
➢ **To remove the installed Micro SD card:**
Gently press the Micro SD card and it will eject.

- The Micro SD card has only one correct loading direction, please do not force the card into the slot.
- 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.

4.OPERATION

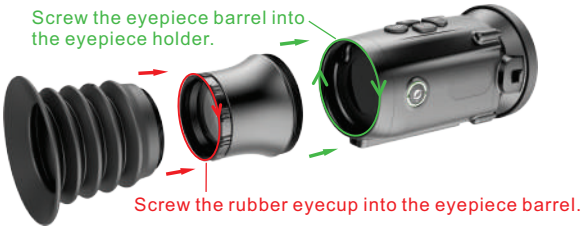
4.1 Mounting Eyepiece barrel

To attach the eyepiece barrel and rubber eyecup to the Mars MT2000, you will need the eyepiece holder .

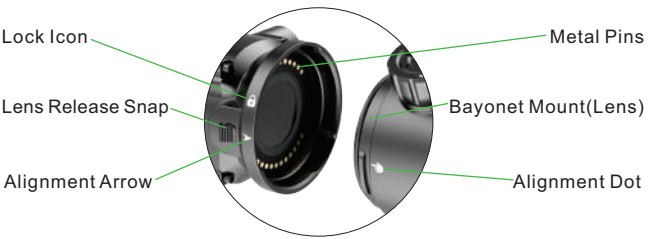


Use a wrench to remove the three screws shown in the image, then detach the eyepiece mounting bracket.

When installing an eyepiece, ensure that the eyepiece holder is properly secured and that all three screws are tightened firmly.



4.2 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.

- 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. Make sure the white alignment arrow is lined up with the white alignment mark.



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



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



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

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

The sealing O-ring on the lens creates an airtight seal, so the lens may feel a little tight when you try to remove it.

4.3 Lens Recognition

The device can automatically recognize the lens after loading different objective lenses. When 2.5X 60mm is displayed at the bottom of the main interface, it means a 2.5X lens with a focal length of 60mm,and means no lens is installed.



4.4 Objective Focusing



To ensure that the observed objects at different distances can be clearly displayed on the screen.

4.5 Mount Installation

There are 4 screw holes on the bottom of the mounting device for mounting the mount. If an electric wrench is used for installation, a torque of 5 N.m is recommended.

a. Mount the scope on the mounting slot and adjust it forward or backward to a viewable position.
b. Align any 3 consecutive screw holes and place the screws into the screw holes.
c. Tighten the 3 screws in sequence with a 5/32-inch wrench.

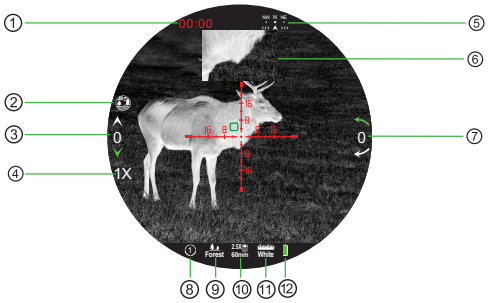


4.6 Turn ON/OFF

Turn On:
When the device is OFF, press and hold the POWER button for 3s 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.

HOME SCREEN



① **Recording Time:** Short press the Record button to start recording, and the time will increase during the recording process. Short press again to stop recording, and the recording time icon disappears. Set auto-save time 2min/3min/5min/10min in the MENU.
Recording Name: Oneleaf-YYYY-MM-DD-HH-MM_SequenceNumber.

② **Sharp mode:** Image display when Sharp mode view technology is turned on.
Image display when Sharp mode view technology is strongest.

③ **Gyro Pitch:** Based on the internal 3D gyro tilt.

④ **Digital Zoom:** Default 1X, maximum 8X.

⑤ **Magnetometer**: Yaw angle based on compass data.

⑥ **Picture in Picture:** Zoom in to show the center of focus.

⑦ **Gyro Roll Angle:** Displays the MT2000's tilt based on the internal 3D gyro.

⑧ **Position:** The serial number inside the icon represents the Position's group number. There are 6 Position profiles in total.

⑨ **Scene Mode:** Long press the left button to switch among Normal / Forest / Fog / Rain / Soft / Line / Snow / City.

⑩ **Lens Recognition:** 2.5X 60mm means 60mm lens; means no lens.

⑪ **Palette:** Short press the Right button to switch among 9 modes, White/Black/Rainbow/Ironred/Red hot/Aurora/Night/Blue hot/Cyanblue.

⑫ **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.

MENU

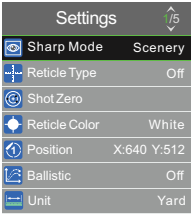
Menu Navigation

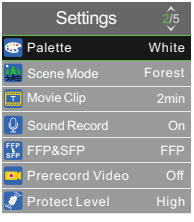
➢ Button Operations

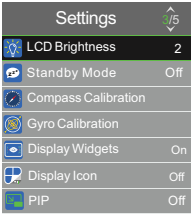
- Long press the Right button on the Home Screen to enter the MENU.
- Short press the / button to select the previous or next option. Short press the Left button to jump to the previous menu. Short press the Right button to enter the next menu.
- In the MENU, long press the right button to exit the MENU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

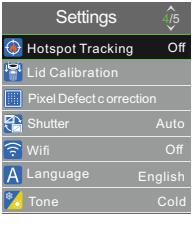
➢ Touch Operations

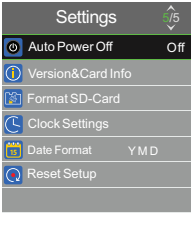
- Tap the screen twice on the Home Screen to enter the MENU.
- Swipe / to select the previous or next option. Tap the screen to enter the next menu.
- In MENU, swipe to exit MENU and return to the Home Screen.



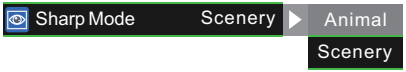








Sharp Mode



Animal: Image display when Sharp mode view technology is turned on.
Scenery: Image display when Sharp mode view technology is strongest.

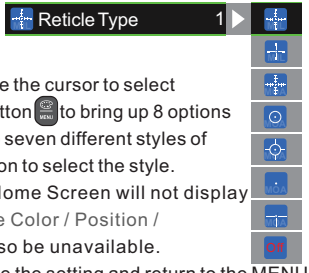
➢Button Operations

Short press the / button to move the cursor to select 'Sharp Mode'.
Short press the Right button to bring up 2 options (Animal / Scenery).
Short-press the / button to select an option.
Short press the Right button to save the setting.
Shortcut: In the Home Screen, Long press the button to switch .

➢Touch Operations

Swipe / to move the cursor to select 'Sharp Mode'. Tap the screen to bring up 2 options (Animal / Scenery). Swipe / to select an option. Tap the screen to save the setting.

Reticle Type



➢Button Operations

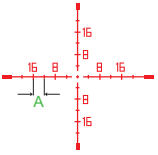
Short press the / button to move the cursor to select 'Reticle Type'. Short press the Right button to bring up 8 options (1/2/3/4/5/6/7/Off). They correspond to seven different styles of reticles. Short-press the / button to select the style.
When the OFF option is selected, the Home Screen will not display the reticle, and the Shot Zero/ Reticle Color / Position / Ballistic Parameters functions will also be unavailable.
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 8 options (1/2/3/4/5/6/7/Off). They correspond to seven different styles of reticles. Swipe / to select the style. When the OFF option is selected, the Home Screen will not display the reticle, and the Shot Zero/ Reticle Color / Position / Ballistic Parameters functions will also be unavailable. The reticle cannot be turned off during switching— this setting must be adjusted manually in the Menu. Tap the screen to save the setting and return to the MENU.
Shortcut: Swipe down in the Home Screen to instantly switch reticle types.

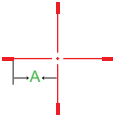
Reticle type 1

Section	A		
Digital zoom	1X	2-4X	5-8X
Mil@100m	4	2	1



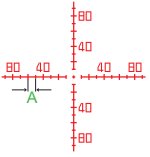
Reticle type 2

Section	A
Digital zoom	1-8X
Mil@100m	16



Reticle type 3

Section	A	
Digital zoom	1-4X	5-8X
MOA@100m	10	5



Reticle type 4

Section	A
Digital zoom	1-8X
Mil@100m	30



Reticle type 5

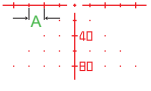
Section	A	B
Digital zoom	1-8X	1-8X
Mil@100m	40	60



Reticle type 6

Reticle type 7

Section	A	
Digital zoom	1-6X	7-8X
MOA@100m	10	5



Shot Zero

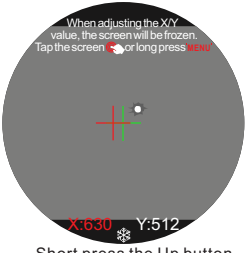


- When adjusting the X/Y value, the screen will be frozen.
- Move the red reticle to the bullet impact point.

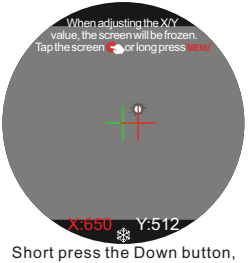
1. Press and hold the Right button to open the menu. Short press the / button to move the cursor to select 'Shot Zero', then press the button to enter the correction interface.

2. Press the Right button to switch between the **X-axis** and **Y-axis**. (The green reticle is the starting position)

   X-axis Adjustment: Press the Up button to move the cursor left. Press the Down button to move the cursor right.
   Press and hold either button for faster movement.

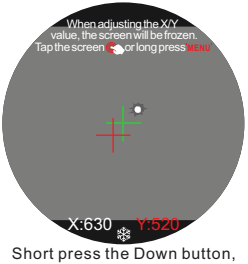


Short press the Up button, the X value decreases

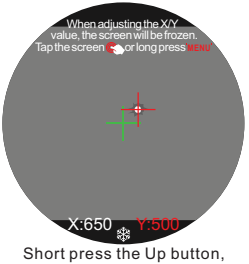


Short press the Down button, the X value increases

Y-axis Adjustment: Press the Up button to move the cursor up.
Press the Down button to move the cursor down.
Press and hold either button for faster movement.

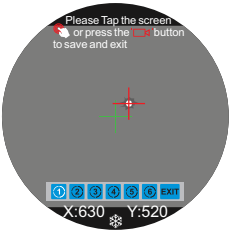


Short press the Down button, the Y value increases

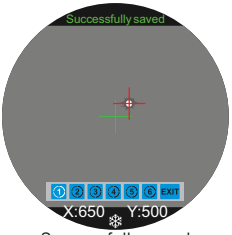


Short press the Up button, the Y value decreases

3. Once the cursor is positioned over the bullet impact point, Long press Right button to bring up the Position options ① ② ③ ④ ⑤ ⑥ EXIT . Press the Left or Right button to select save data into Position 1-6 (the selected Position will turn white), press the Down button or long press right button to confirm the selection.
After Position is saved successfully, the device will automatically return to the MENU.



Position 1 is selected

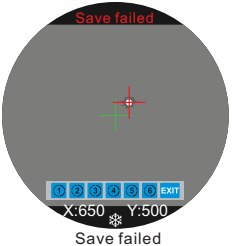


Successfully saved

Select EXIT ,press the Down button or long press right button to confirm the selection, the Position save failed and automatically return to the MENU.



Select EXIT



Save failed

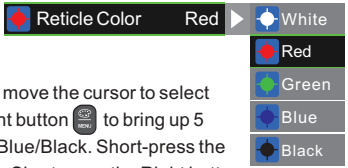
➢ Touch Operations

- **X-axis Adjustment**:

  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.
- **Y-axis Adjustment**:

  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 . Tap the screen again to confirm the selection.

Reticle Color



➢ Button Operations

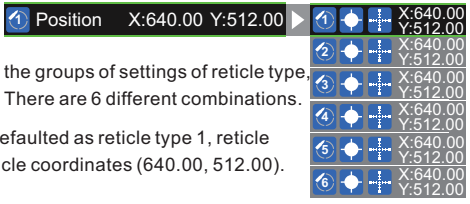
Short press the / button to move the cursor to select 'Reticle Color'. Short press the Right button to bring up 5 color options of White/Red/Green/Blue/Black. Short-press the / button to select the color. Short press the Right button again to save the setting and return to the MENU.

➢ 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/Black. 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.

The Positions are defaulted as reticle type 1, reticle color white, and reticle coordinates (640.00, 512.00).

➢ 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 .

➢ 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.

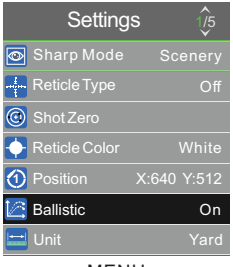
1. When the unit in the menu is set to Yard, all units in the ballistic parameter are switched to imperial; When the unit in the menu is set to Meter, all units in the ballistic parameters are switched to metric.
2. To ensure the accuracy of the parameters, please make sure that the units in the ballistic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

➢ Button Operations

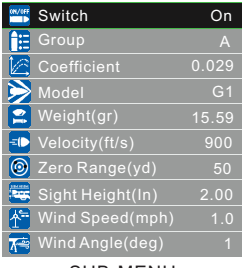
(1)Long press the Right button to enter MENU. Short press the / button to move the cursor to select 'Ballistic'. Short press the Right button to enter the sub menu for parameter setting.

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.



MENU

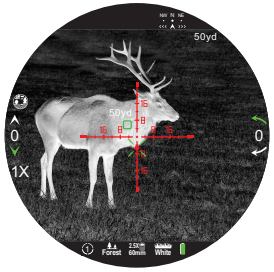


SUB-MENU

(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

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

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 MT2000,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.





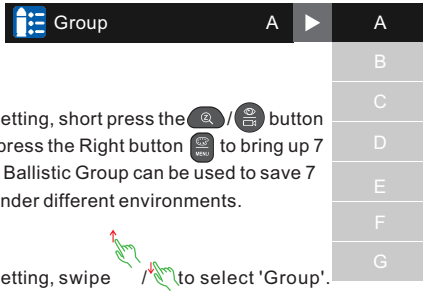
➢Button Operations

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. 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/B/C/D/E/F/G. Ballistic Group can be used to save 7groups 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.

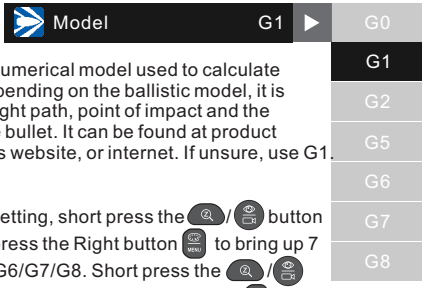
➢Button Operations

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.

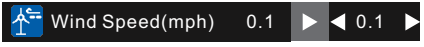
➤ Button Operations

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.

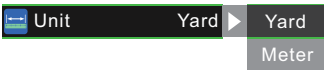
➤Button Operations

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.

Unit



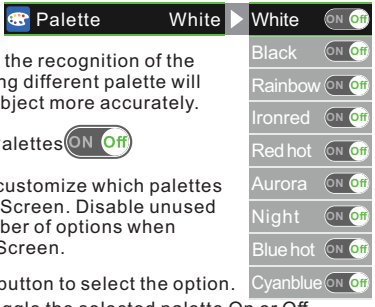
➤Button Operations

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

Palette



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

Enable ON Off **/Disable** Palettes ON Off

This feature allows you to customize which palettes are available on the Home Screen. Disable unused palettes to reduce the number of options when cycling through the Home Screen.

1. Short press the / button to select the option.
2. Press the Button to toggle the selected palette On or Off.
3. If the palette is On, press the MENU to activate it. The Home Screen will switch to the selected palette.
4. If the palette is Off, pressing the MENU will display the message: 'Not enabled. Unavailable.'
5. Shortcut is not available for disabled palettes.

➤Button Operations

Short press the / button to move the cursor to select 'Palette'. Short press the MENU button to bring up 9 Palette options of White / Black / Rainbow / Ironred / Red hot / Aurora / Night / Blue hot / Cyanblue. Short-press the / button to select the option. Short press the MENU button again to save the setting and return to the MENU.

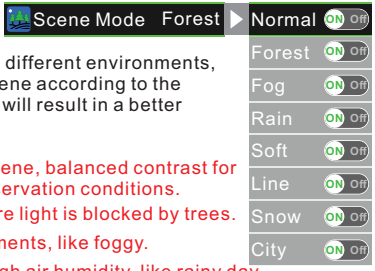
Shortcut: In the Home Screen, short press the MENU button to quickly switch among palettes.

➤ Touch Operations

Swipe / to move the cursor to select 'Palette'. Tap the screen to bring up 9 Palette options of White / Black / Rainbow / Ironred / Red hot / Aurora / Night / Blue hot / Cyanblue.
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 MT2000 is used in different environments, selecting the appropriate scene according to the actual environmental needs will result in a better image display.

Normal : Default general scene, balanced contrast for most common observation conditions.
Forest : Environments where light is blocked by trees.
Fog : Low visibility environments, like foggy.
Rain : Environments with high air humidity, like rainy day.
Soft : Smooth image mode, suppress saturated hot spots to avoid overexposure.
Line : Edge enhancement mode, sharpens target outlines and boundaries.
Snow : An environment when temperatures below 51.8°F(11°C) and dazzling light after snow covers the ground.
City : Urban area.

Enable ON Off **/Disable** Scenes ON Off

This feature allows you to customize which Scenes are available on the Home Screen. Disable unused Scenes to reduce the number of options when cycling through the Home Screen.

1. Short press the / button to select the desired Scene.
2. Press the Button to toggle the selected Scene On or Off.
3. If the Scene is On, press the MENU to activate it. The Home Screen will switch to the selected Scene.
4. If the Scene is Off, pressing the MENU will display the message: 'Not enabled. Unavailable.'
5. Shortcut is not available for disabled Scenes.

➢ Button Operations

Short press the / button to move the cursor to select 'Scene Mode'. Short press the MENU button to bring up 8 options: Normal / Forest / Fog / Rain / Soft / Line / Snow / City . Short press the / button to select the option. Short press the MENU button again to save the setting.

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

➢ Touch Operations

Swipe / to move the cursor to select 'Scene Mode'. Tap the screen to bring up 8 options: Normal / Forest / Fog / Rain / Soft / Line /Snow / City. 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.

Movie Clip



Set the duration of each video recording.

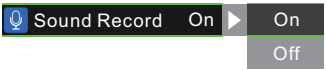
➢ Button Operations

Short press the / button to move the cursor to select 'Movie Clip'. Short press the MENU button to bring up 4 options: 2min / 3min /5 min / 10min. Short press the / button to select the option. Short press the MENU 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 MENU button to bring up 2 options: On / Off. Short press the / button to select the option. Short press the MENU 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.

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.

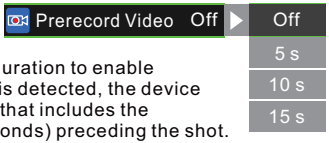
➢Button Operations

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

Prerecord Video



Select the desired pre-recording duration to enable automatic recording. When recoil is detected, the device automatically records a video clip that includes the selected duration (5, 10, or 15 seconds) preceding the shot. A single recoil event can generate a recording of up to 49 seconds.

If additional recoil events are detected, recording will continue accordingly.

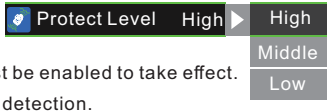
➤ Button Operations

Short press the / button to move the cursor to select 'Prerecord Video'. Short press the MENU button to bring up 4 options: Off / 5s / 10s / 15s. Short press the / button to select the option. Short press the MENU button again to save the setting.

➤ 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.

Protect Level



The Prerecord Video function must be enabled to take effect.

Adjusts the sensitivity of vibration detection.
Higher sensitivity allows even minor vibrations to trigger pre-recording.

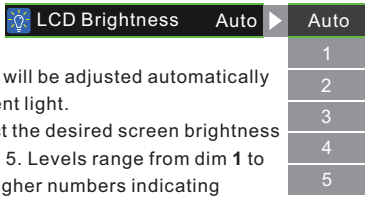
➤ Button Operations

Short press the / button to move the cursor to select 'Protect Level'. Short press the MENU button to bring up 3 options: High / Middle / Low. Short press the / button to select the option. Short press the MENU 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.

LCD Brightness



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

1 / 2 / 3 / 4 / 5 : Manually select the desired screen brightness level: 1, 2, 3, 4, 5. Levels range from dim **1** to bright 5, with higher numbers indicating increased brightness.

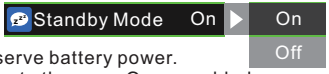
➤Button Operations

Short press the / button to move the cursor to select 'LCD Brightness'. Short press the button to bring up 6 options: Auto / 1 / 2 / 3 / 4 / 5. Short press the / button to select the option. Short press the button again to save the setting.

➤Touch Operations

Swipe / to move the cursor to select 'LCD Brightness'. Tap the screen to bring up 6 options: Auto / 1 / 2 / 3 / 4 / 5. Swipe / to select the option. Tap the screen again to save the setting.

Standby Mode



Standby mode is designed to conserve battery power. Before enabling this feature, calibrate the gyro. Once enabled, the display can be reactivated by pressing the Power button. The device will automatically enter standby mode when tilted more than 70° vertically or 30° horizontally. If no activity is detected for 10 seconds, the display will turn off automatically.

➤Button Operations

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

➤Touch Operations

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

Compass Calibration

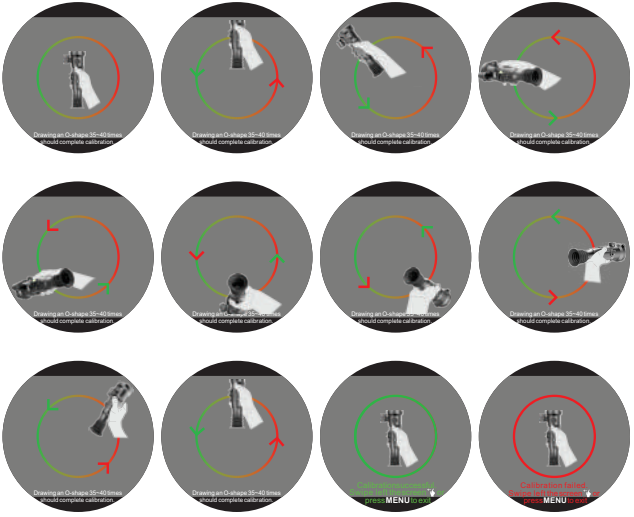


➤ Button Operations

Short press the / button to move the cursor to select 'Compass Calibration'. Short press the Right button to enter Compass Calibration operation page. and follow the animation to draw the letter 'O'35-40 times for calibration. Please follow the prompts until the screen indicates calibration succe or failure. Short press the Right button to exit Compass Calibration.

➤ Touch Operations

Swipe / to move the cursor to select 'Compass Calibration'. Tap the screen to enter Compass Calibration operation page. and follow the animation to draw the letter 'O'35-40 times for calibration. Please follow the prompts until the screen indicates calibration success or failure. Swipe the screen to exit Compass 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.

➤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.







Display Widgets



The system default status is On, and the real-time data of the gyroscope and E-Compass will be displayed on the Home screen; when Off is selected, the Home screen will not display the gyroscope and E-Compass data.

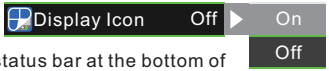
➤Button Operations

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

➤Touch Operations

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

Display Icon



The default status is Off, and the status bar at the bottom of the Home screen will be hidden after 7 seconds of no operation.
You can press the / button to call out the status bar.
When On is selected, the status bar will be displayed all the time.

➢ Button Operations

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

➢ Touch Operations

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

PIP



➢ Button Operations

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

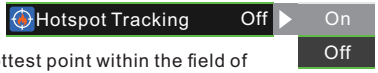
Shortcut: In the Home Screen, long press the button to quickly turn on/off PIP.

Note: When Manual Shutter Calibration is enabled, press and hold the Zoom button to perform shutter calibration.
The PIP shortcut will be disabled.

➢ 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.

Hotspot Tracking



Automatically detects the hottest point within the field of view and marks it with a black box on the display.

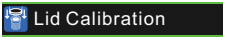
➤Button Operations

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

➤Touch Operations

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

Lid Calibration



This can correct for non-uniformity of the display. During correction an internal shutter will be lowered in front of the thermal detector. A'click sound will often be heard, and the image is momentarily interrupted for a split second. After this quick process the detector will be re-calibrated,and the image becomes more accurate.

Note: Please cover the lens cap when performing calibration in 'White Hot' mode.

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.

➤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.

Pixel Defect correction



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

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

The device should be in White Hot mode before performing pixel defect correction. If another color palette is selected, the device will automatically switch to White Hot when entering the pixel defect correction interface.

➢Button Operations

1. Press and hold the Right button to open the menu. Short press the / button to move the cursor to select Pixel Defect Correction, then press the button to enter the correction interface.

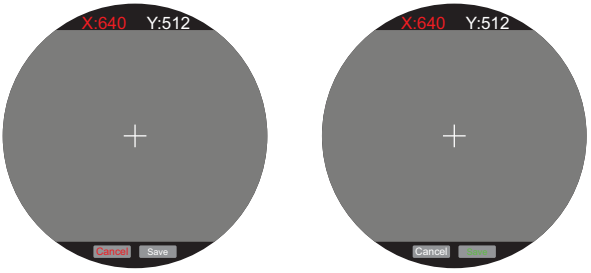
2. Press the Right button to switch between the X-axis and Y-axis.

X-axis Adjustment: Press the Up button to move the cursor left.
Press the Down button to move the cursor right.
Press and hold either button for faster movement.
Y-axis Adjustment: Press the Up button to move the cursor up.
Press the Down button to move the cursor down.
Press and hold either button for faster movement.





3. Once the cursor is positioned over the defect pixel, press the Left button to display the Cancel / Save dialog box. Press the Left or Right button to confirm Cancel, or press the Up or Down button to select Save.



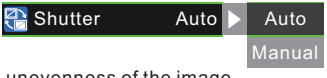
4. After selecting Save, press the Left or Right button to confirm. The pixel defect correction will be applied. Repeat the procedure if additional defective pixels need to be corrected.

5. Press and hold the Right button to exit.

➢ Touch Operations

Swipe / to move the cursor to select 'Pixel Defect correction '.
Tap the screen to enter the correction interface.
Swipe the screen to exit correction interface.

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.

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.

➤Button Operations

Short press the / button to move the cursor to select 'Shutter '. 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: On the Home Screen, quickly press the Left button twice to perform shutter calibration. In Manual Shutter mode, you can also perform shutter calibration by pressing and holding the Up button.

➤ Touch Operations

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

WIFI



➤Button Operations

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

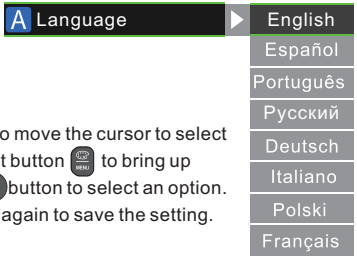
➤ Touch Operations

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

1.Turn on the MT2000 device's WiFi function.
2.Connect your phone to the MT2000. Open your phone's WiFi settings, find the network named **OneLeaf_Ai_MT2000_xxxx**, select it, and enter the password **12345678**. Once your phone is connected to the MT2000's WiFi, launch the app you installed to begin using all features.

Scan the QR code to download app

Language



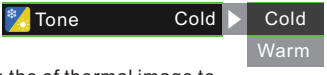
➤Button Operations

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.

➤ 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.

Tone



This function allows you to change the of thermal image to warm or cold.

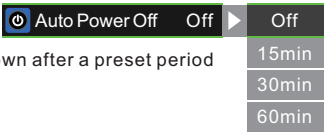
➤Button Operations

Short press the / button to move the cursor to select 'Tone '. Short press the Right button to bring up 2 options : Cold / Warm . 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 'Tone '. Tap the screen to bring up 2 options: Cold / Warm. Swipe / to select the option. Tap the screen again to save the setting.

Auto Power Off



The device automatically shuts down after a preset period of inactivity.

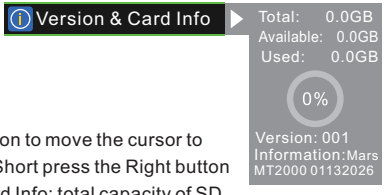
➢ Button Operations

Short press the / button to move the cursor to select 'Auto Power Off '. Short press the Right button to bring up 4 options: Off / 15min /30min / 60min. 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 Power Off '. Tap the screen to bring up 4 options: Off / 15min /30min / 60min. Swipe / to select the option. Tap the screen again to save the setting.

Version & Card Info



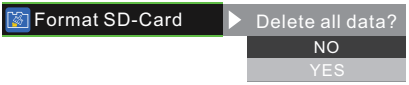
➢ Button Operations

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.

➢ 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.

Format SD-Card



➢ Button Operations

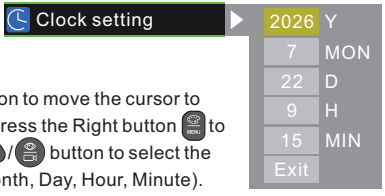
Short press the / button to move the cursor to select 'Format SD-Card'. Short press the Right button to call out the dialog box. When YES is selected, all data in the SD card will be formatted, and the message 'Format Complete' will be prompted when formatting is successful, when NO is selected, device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

Caution: Formatting the SD card will erase all stored data, which cannot be recovered.

➢ 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.

Clock Setting



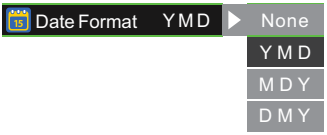
➢ Button Operations

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 Tap the screen to save.

Date Format



➢ Button Operations

Short press the / button to move the cursor to select 'Date Format '. Short press the Right button to bring up 4 options: None / Y M D / M D Y / D M Y. 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 'Date Format '. Tap the screen to bring up 4 options: None / Y M D / M D Y / D M Y. Swipe / to select the option. Tap the screen again to save the setting.

Reset Setup



➢ 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, MT2000 will restore the factory settings, and it will not be restarted after reset. When NO is selected, MT2000 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, MT2000 will restore the factory settings, and it will not be restarted after reset. When NO is selected, MT2000 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 MT2000 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 Micro SD card with device before update.
- Please do not power off the device or remove the Micro SD card during firmware updating process.

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 MT2000 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.
- Mars MT2000 cannot connect to the computer.
  1.Check whether the port is loose.
  2.Please make sure the Micro SD card is in the Mars MT2000. Connect the device to computer first, then power on the device.