

Houndmate® 100/R50

Dog Tracking and Training System
User's Manual



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I .- Items in the Box



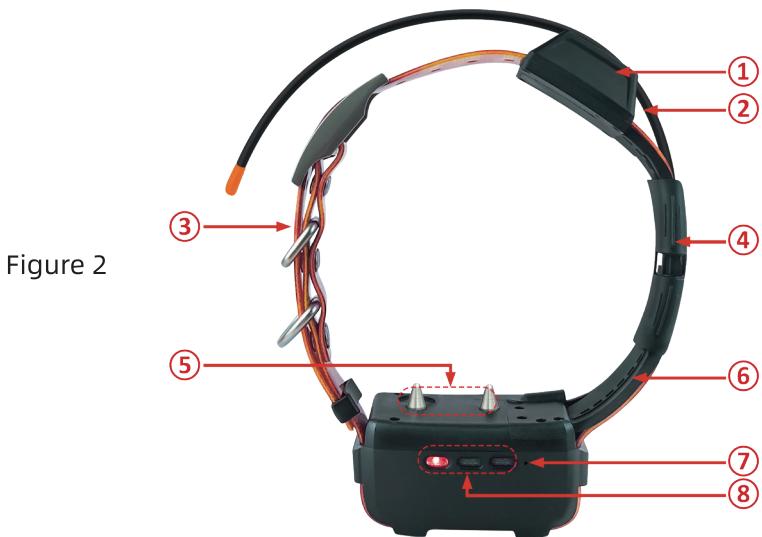
II .- Device Overviews

1. Houndmate 100 Handheld Device



- ① Radio antenna
- ② GPS antenna
- ③ LCD Display
- ④ Power key
- ⑤ Brand Logo
- ⑥ Enter Key
- ⑦ Back key
- ⑧ Arrow keys
- ⑨ Compass shortcuts key
- ⑩ Function shortcut key
- ⑪ USB port
- ⑫ Mounting spine
- ⑬ Battery cover
- ⑭ Speaker
- ⑮ Battery cover D-ring

2. R50 Dog Collar Device



① GPS antenna	② Radio antenna	③ Collar Strap
④ Radio antenna keeper	⑤ Contact points	⑥ GPS antenna keeper
⑦ Microphone	⑧ Status LED and flashing beacon LEDS	
⑨ Power key	⑩ SIM card slot	
⑪ Charging contacts		

4. Find lost handheld
5. Location mark on map, easy to find
6. Fence setting on map, escape alert
7. Collar information management

3. TR-dog APP



iOS



Android

Download TR-dog APP by scanning the QR code
APP on Smart phone . Functions as below:

1. HD satellite map
2. Real time location, Real time track, Real time state on App
3. Historical track replay

III.- Getting Started

1. Installing SIM Card, Memory Card, Battery and Antenna in the Handheld Device

1.1 Installing a SIM Card in the Handheld Device

Turn the D-ring clockwise, and pull up to remove the cover.
Push the SIM card into the lowermost card slot with the SIM card chip facing down and the notch facing inward, as shown below:



Figure 4

Figure 5



1.3 Installing the Battery in the Handheld Device

Put the original battery into the battery compartment with the positive pole towards the antenna and the negative pole towards the battery cover lock **as shown in the figure below**. Then replace the battery cover, and turn D-ring counter-clockwise until you hear a "click".

Figure 7



1.4 Installing the Antenna in Handheld Device

Insert the Radio antenna into antenna port and rotate the antenna clockwise by hand until it stops, **as shown in the figure 8:**

Figure 6

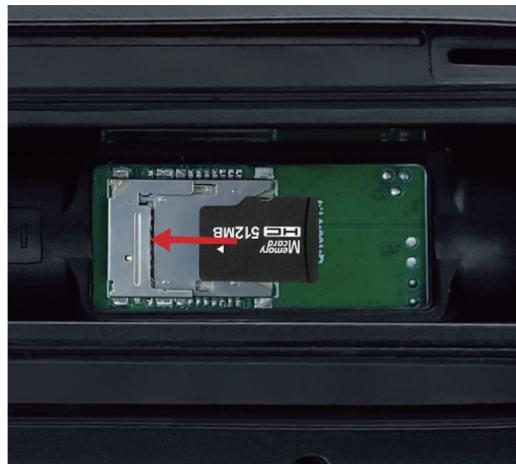


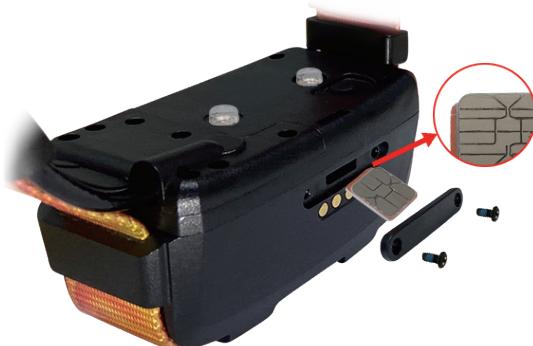
Figure 8



2. Installing a SIM card in the Collar Device

Remove the SIM Card slot plug strip from the collar device first. Push the SIM card into the card slot with the chip facing UP and the notch facing inward. Replace the plug strip and tighten the fixing screws, **as shown in the figure below** :

Figure 9



3. Charging the Devices

3.1 Charging the Handheld Device

The plug strip attached to the USB port in the bottom of the handheld device provides protection against dirt and water for the USB port. Pull up the right-hand end of it and turn it clockwise to reveal the USB port. Insert the Type-C end of the Type-C charging cable into the charging port, and connect the USB end to the power adapter (Specified Specs: Output Voltage: 5V, Maximum Output Current:1500mA), **as shown in the figures below**. Plug the power adapter into a power source to charge the handheld.

Figure 10



Figure 11



3.2 Charging the Dog Collar Device

To charge the dog collar device, please follow the steps below:

Step 1: Make sure the charging contacts are dry and free of dirt.

Step 2: Snap the charging clip onto the dog collar device **as shown in the figure below:**

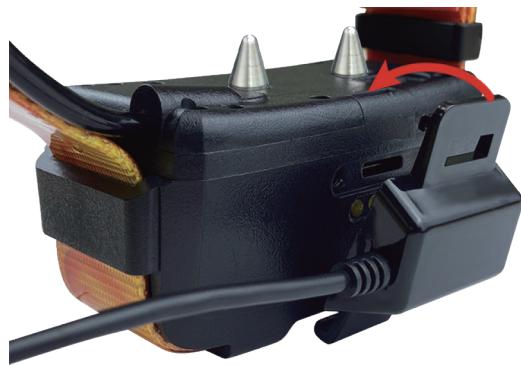


Figure 12

Step 3: Connect the USB end to a power adapter (Specified Specs:

Output Voltage: 5V, Maximum Output Current:1500mA).

Step 4: Plug the power adapter into a power source to charge the collar.

The red light in the collar is always on when the collar is being charged, and the green light is always on when it is fully charged. **as shown in the figures below:**



Figure 13



Figure 14

4. Turning On the Devices

4.1 Turning On the Handheld Device

Press and hold the power key on the right side of the handheld until the LCD display turns on.

4.2 Turning On the Dog Collar Device

Press and hold the power key on the collar device until both red light and green light turn on at the same time.

5. Turning Off the Devices

5.1 Turning Off the Handheld Device

Exit the Compass screen on the handheld. Long press the power key on the handheld until the handheld vibrates and the screen displays "Powering Off".

5.2 Turning Off the Dog Collar Device

Short press the power key two times. And then Long press the power key until the collar device vibrates, then it turns off. Both the red light and the green light will turn on, and the collar will beep, when you press the power key every time.

1. Dog Collar Management

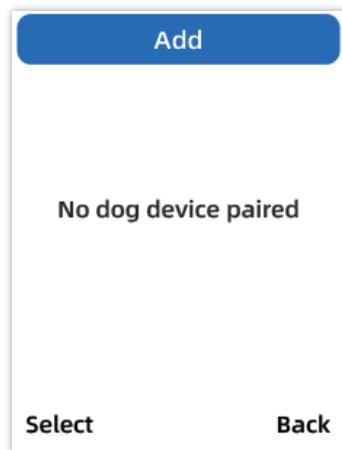
1.1 Adding a Dog collar

To add a dog collar to the handheld, please follow steps below:

Step 1: Using arrow keys to highlight "Dog List" on the interface.

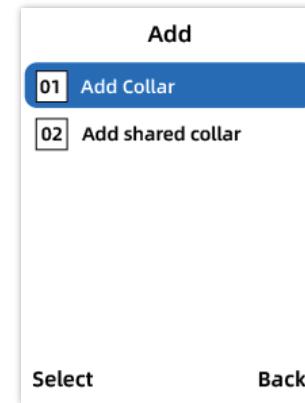
Press  key. The "Add" will come up as below:

Figure 15



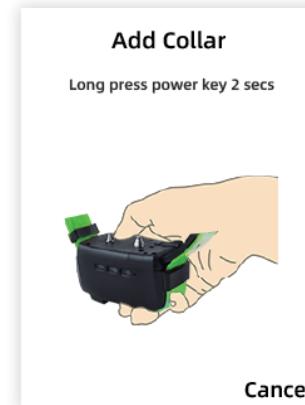
Step 2: Press the keys   to choose "Add Collar". Press the key  to enter into "Add Collar" interface as figure 16:

Figure 16



Step 3: Turn on the collar you want to add. Long press the power key until the collar vibrates and the red light and green light flashes alternately. Now the collar enters the pairing mode, show as below:

Figure 17



Step 4: After it is completed, the screen will display the collar's information as below. Press  key. A "Please wait" prompt box will then pop up on the screen. About one second later, the "Done" prompt box is expected to pop up on the screen. The handheld will return to the Dog

List screen after the adding process is completed. It indicates the dog collar has been added to the handheld successfully if you can see the collar is already on the list **as below :**

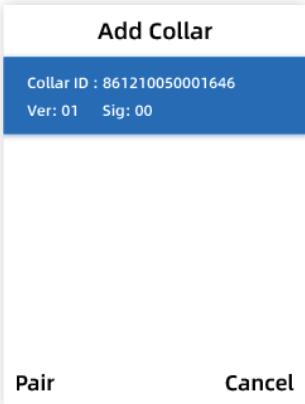


Figure 18

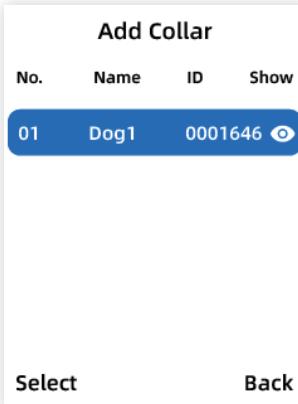


Figure 19

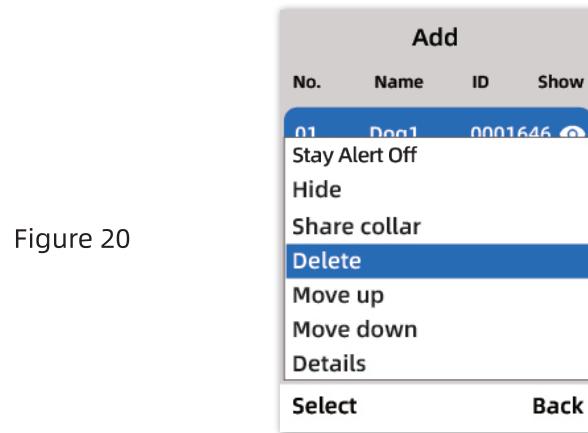


Figure 20

Step 2: Select "Delete" in the pop-up function menu box. Press "OK" key. A "Delete?" confirmation box will pop up.

Step 3: Press "OK" key to confirm deleting. It indicates the collar has been deleted if a prompt box saying "Deleted" pops up later.

NOTE: If the collar does not appear on the list after you complete step 3, please repeat step 3.

1.2 Removing a Dog Collar

To remove a collar from the handheld, **please follow steps below:**

Step 1: Select "Dog List" on the Home Screen to come to the "Add Collar" screen. Select the collar to be removed and press "OK" key. A function menu box will pop up as the figure 20 shows.

1.3 Hiding/Showing a Dog Collar

Hiding/Showing a Dog Collar on the Compass screen. The Compass screen will not display the collar if you choose to "Hide" a collar on the "Add Collar" screen. If you want it to display the collar again, you have to order it to "Show" the collar. **The operation steps are as follows:**

Step 1: Select "Dog List" on the Home Screen to come to the "Add Collar" screen. Select the collar that needs to be hidden/displayed and press "OK" key. A function menu box will pop up as figure 21 shows.

Figure 21

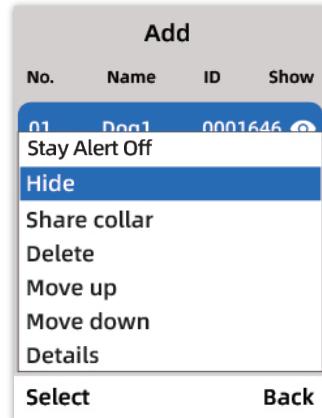
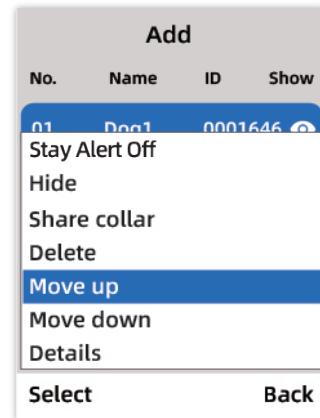


Figure 22



Step 2: Select "Hide"/"Show" in the pop-up function menu box. Press "OK" key. A "Done" prompt box will pop up later indicating that the collar has been hidden/displayed.

Step 2: Select "Move Up"/"Move Down" in the pop-up function menu box, press "OK" key to select key and a "Done" prompt box will pop up, indicating that the collar has been moved up/down.

1.4 Sequencing the Dog Collars

To arrange the display order of the dog collars, **please follow steps below:**

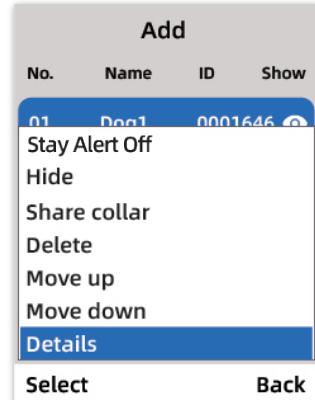
Step 1: Select "Dog List" on the Home Screen to come to the "Add Collar" screen. Select the collar to be moved and press "OK" key. A function menu box as shown in figure 22 will pop up.

1.5 Viewing Dog Collar Information

To view the name, device number and other information of the collar, **please follow the steps below:**

Step 1: Step 1: Select "Dog List" on the Home Screen to come to the "Add Collar" screen. Select the collar you want to check and press "OK" key. A function menu box will pop up.

Figure 23



Step 2: Select "Details " in the pop-up menu box. Press "  "key to come to the "Details" screen. The screen will show the dog collar's serial number, name, ID number and the radio frequency the collar uses.

Figure 24



1.6 Sharing Collar

Handheld (hereunder referred to main handheld) can Share the collar information with other handheld (hereunder referred to sub handheld) . Both the main handheld and sub handheld can view the collar's status. But the sub handheld can't send orders to the collar. On the " Compass " interface, the collar of the main handheld is marked in RED, the collar shared by other handheld is marked in **GREEN**. Steps as below;

Step 1: Switch the Sub handheld's interface to "Dog listing" .

Select "Add" and press  , then it will enter into "Add" interface, as below;

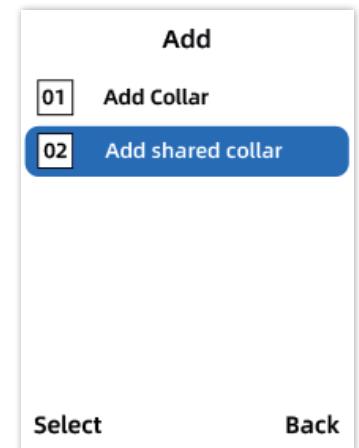
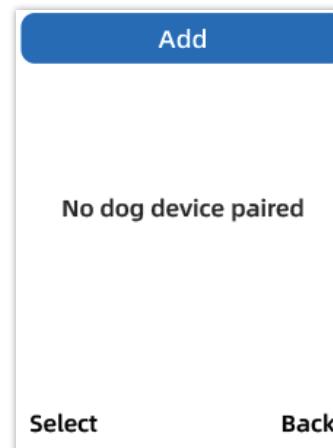
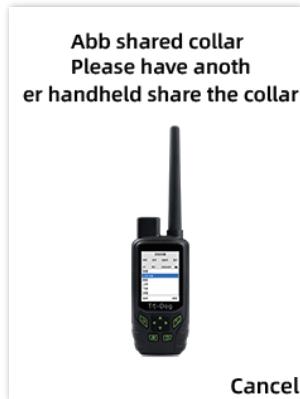


Figure 25

Figure 26

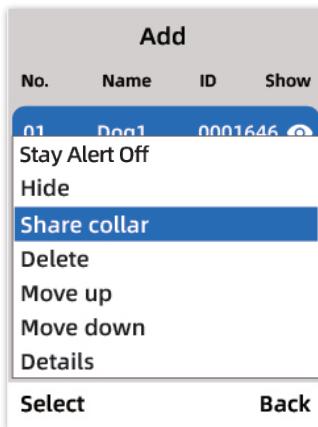
Step 2: Press  to select "Add Sharing Collar" . Press  to enter into "Add Sharing Collar" interface as figure 27

Figure27



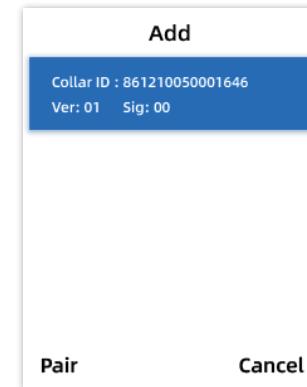
Step 3: Switch the main handheld to “collar listing” interface, select the right collar which you plan to share, and then press . A function menu box will pop up as below:

Figure 28



Step 4: Select “Sharing collar” and press . Then there will be a notice “sharing the collar with others?”. Press . Then you will find the sharing collar’s information on the sub handheld interface as below:

Figure 29



Step 5: Press on the sub handheld, It will give notice “Hold for a moment” . Few seconds later, there will be a notification of completion. It will return to the “collar listing”. On the sub handheld interface you will find the shared collar’s information. It means the collar is shared successfully. The collar shared by other handheld will be marked with * .as figure 30 . If press on the sub handheld, and it is noticing “the channel is occupied, change the collar or not? ” . Press and the collar which occupied the channel will be deleted.If you can’t find the shared collar’s information on the sub handheld, you have to retry step 5.

Figure 30



1.7 Staying Alert.

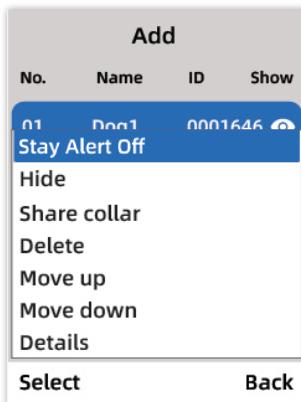
Once the collar changing from moving state to staying state, the handheld will vibrate and a prompt box will pop up. The retention reminder is only prompted once when the collar state changes.

Turn on/off the staying alert are as follows:

Step 1: Switch the handset to the "Collar List" interface, select the collar that needs to turn on/off the stop reminder, press the key, and a function option box will pop up, as shown in the figure below.

Step 2: Select "Stay On"/"Stay Off" in the pop-up function option box, press the key and a "Complete" prompt box will pop up, indicating that the collar has turned on/off the stop prompt.

Figure 31



2. Setting Dog Location Update Rate

2.1 Setting Update Rate in Radio Communication Mode

Dog location update rate options in radio communication mode are every 2.5 secs, every 5 secs, every 10 secs, every 30 secs, every 1 min and every 5 mins. Factory default update rate is every 2.5 secs. You can set a preferred update rate for each dog. Below are steps of setting:

Step 1: Turn on the collar device. Make sure that the battery of the collar is above 50% and the collar is less than 10 meters away from the handheld.

Step 2: Select "Update Rate" on the Home Screen. Press key to select the collar. Press key to confirm collar selection. Press key to cancel collar selection. You'll come to the update rate selection screen after you confirm collar selection, as the figures below shows:

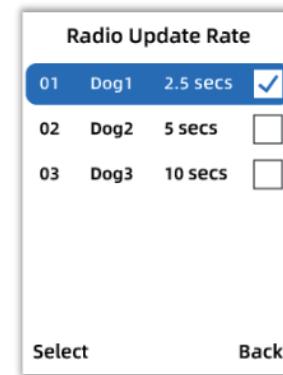


Figure 32

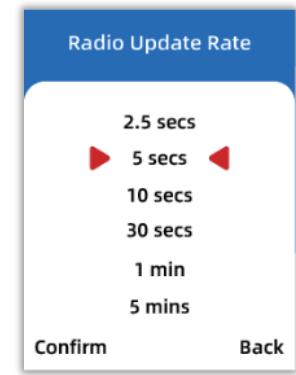


Figure 33

Step 3: Press "▼▲" key to select the update rate you want to set for the selected dog. Press "OK" key to confirm the setting. After you have set the update rate for each dog, a screen as below will appear to show you whether the settings are successful or not:

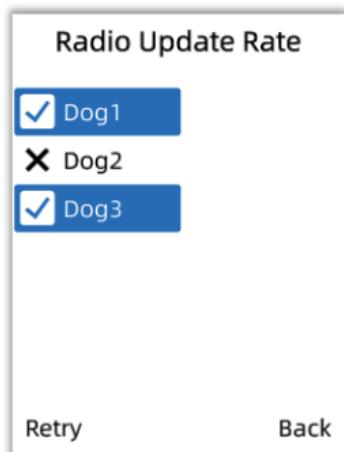


Figure 34

Step 4: After all the collars have been set successfully, a prompt box saying "All Collars Succeeded" will pop up. Press "OK" key. The handheld will then return to the "Radio Update Rate" screen.

If the setting of any collar fails, please make sure that the collar is turned on, the battery is above 50%, and it is within 10 meters of the handheld, and then press "OK" key to try again.

3. Tracking Dogs

Select "Compass" on the Home Screen. On the "Compass" screen, you can view the direction exactly in front of the handheld, the relative direction of the collar from the handheld, distance from the dog to the handheld, collar movement status, altitude of the handheld and the collar respectively, and the remaining battery of the collar and the handheld, as the figure below shows. You can easily track the dogs and judge if there is any prey coming up based on above information.



Figure 35

3.1 Recognizing a Dog's Direction



Figure 36

Taking figure 36 as an example, the direction pointed by the red dotted arrow (pointing directly ahead of the screen) is the direction pointed by the radio antenna of the handheld when the handheld is placed flat. The position is 326° northwest. The direction pointed by the black bearing pointer is the direction of the currently selected dog. It is 40° northeast. Letter " α " indicates the angle, here it is 74°, between the direction of the selected dog and the direction pointed by the radio antenna of the handheld.

To find the currently selected dog, just change the direction of the radio antenna of the handheld until the black bearing pointer points to the top of the screen. Now the direction pointed by the radio antenna of the handheld is the direction of the dog. You can easily find your dog accordingly to his direction, distance from the handheld and the altitude of the dog and of the handheld, respectively.



Figure 37

3.2 The Distance from the dog to the Handheld

The distance from the dog to the handheld varies constantly with the constant movement of the collar and the handheld, respectively.

3.3 Dog Status Icons

-  Main handheld's collar.*
-  the collar shared by sub handheld.
-  The points on the compass interface show the collar's direction.
-  The main handheld's collar.*
-  The shared collar by sub handheld.
-  The collar disconnected.
-  Running
-  Walking
-  Stopped *
-  Signal disconnected

* Colors can change according to the dog list

4. Training Dogs and Controlling Collars

4.1 Stimulating Dogs

The collar has a shocle function. The shocle intensity will not cause harm to the dog but will have a stimulating effect. There are 3 stimulation intensity options: Low, Medium, High, for you to choose from. To stimulate your dogs, please follow the steps below:

Step 1: Install the contact points in the dog collar device, as

shown in the figure 38. Twist the contact points into the contact point holes and tighten them on the collar device.

Figure 38



When you put the collar on the dog, make sure that the contact points are pointed against the neck of the dog.

Step 2: Select "Stimulate" from the Home Screen.

Press "▼▲" key to select the dog you want to stimulate. Press "▶" key to confirm the selection. Press "◀" key to cancel the selection. A screen of stimulation intensity level selection for the dog as below will come up after you confirm the dog selection.

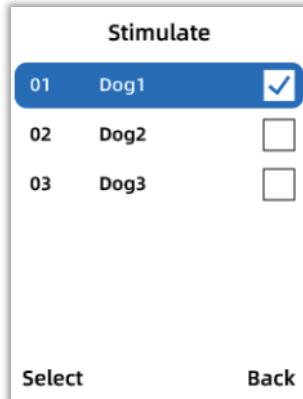


Figure 39

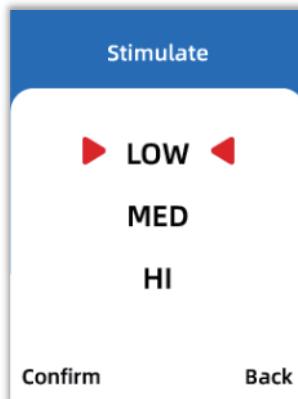


Figure 40

Step 3: Press "▼▲" key to select the intensity level and press "OK" key to confirm the selection. A "Sent" prompt box will pop up indicating that the stimulation command has been sent.

4.2 Vibrating Collars

The collar has a vibration function. There are 3 levels of vibration for you to choose from, respectively, W (for Weak), M (for Medium), S (for Strong). To vibrate a collar, **please follow steps below:**

step 1: Select "Vibra/Flash" from the Home screen.

Press "▼▲" key to select the dog collar you want to vibrate. Press "▶" key to confirm the selection.

Press "◀" key to cancel the selection. You will see a detailed Vibra/Flash Light screen as below after you confirm your dog selection.

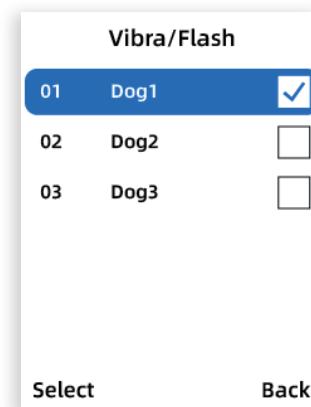


Figure 41

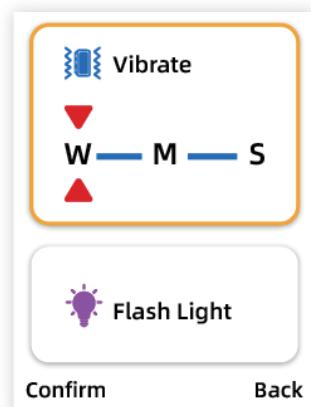


Figure 42

Step 2: Press "   " key to select "Vibrate" .Press"   " key to select the vibration level you want. Press"  " key to confirm your selection. A "Sent" prompt box will pop up on the screen after the system executes your command.

4.3 Flashing light

The collar is equipped with high-brightness LEDs. Turning on the LED lights will help find your dog easily at close range in a dark environment. To turn on the LED lights, **please follow the steps below:**

Step 1: Select "Vibra/Flash" from the Home screen.

Press"   " key to select the collar which you want to flash. Press"  " key to confirm the selection.

Press"  " key to cancel the selection.

Press"  " key to come to a detailed Vibra/Flash selection screen after your dog selection is done.

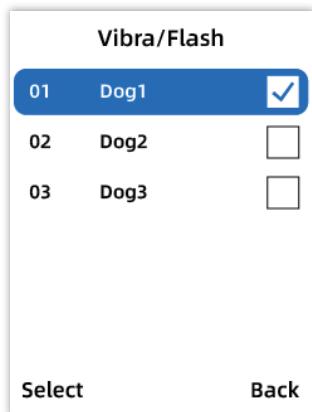


Figure 43

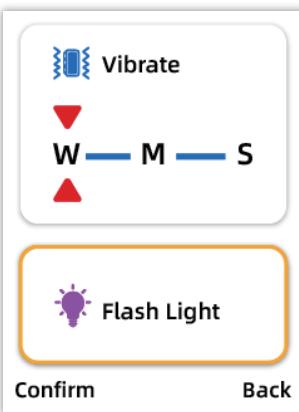


Figure 44

Step 2: Press"   " key to select "Flash Light" . Press"  " key to confirm the command. A "Sent" prompt box will pop up on the screen after the system executes your command.

5. Recording Dog's Barking

The dog collar is capable of recording sounds around the dog collar and sending the recording back to the handheld for you to hear. This will help you judge what status the dog is in and if there's prey coming up.

Preconditions of this function:

The mobile network-related functions are enabled if you have installed a SIM card in the dog collar device and in the handheld, which allows two devices to connect to the GSM network.

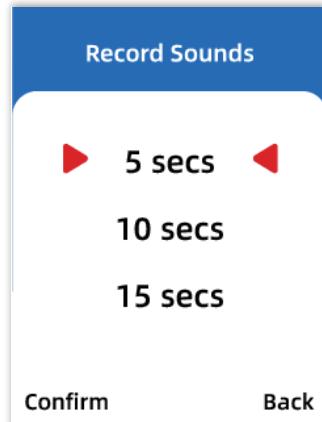
To record and play sounds, please follow the steps below:

Step 1: Select "Record Sounds" on the Home Screen.

Press   key to select the dog collar which you want to record sounds. Press  key to confirm the dog selection. A recording time length selection screen as figure 45 will come up then.

if there are notices the " Handheld is off-network , you can't record temporarily " or the " Collar is off-network , you can't record temporarily " , it means you can't record in the current environment.

Figure 45



Step 2: Press key to select the recording time you want.

Press to confirm the selection. It indicates the system has executed your command of recording sounds if a "Sent" prompt box pops up on the screen. If the previous recording has not been finished, it will notice "Recording now, moment please."

Play the recording. The collar will notify the handheld when it finishes recording. You'll see a pop-up confirmation box saying "The collar has finished the recording. Play it?". Press key to hear the recorded content. Or it will notify recording failed.

6. Settings

6.1 Setting Time Zone

Set the time zone of the current location of the handheld, as the figures 46,47 shows. The time zone must be accurate, otherwise the handheld will display incorrect time.

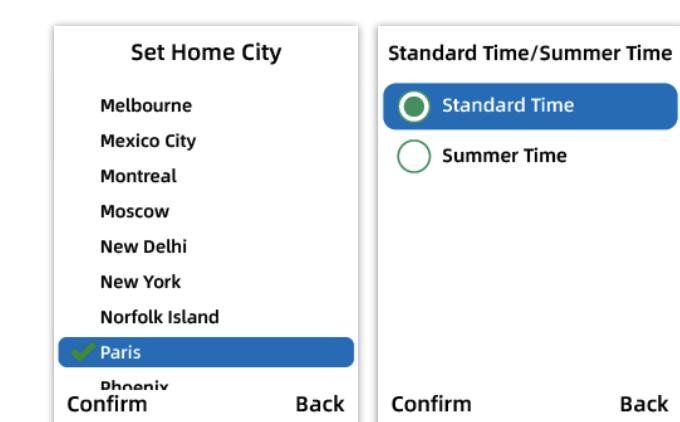


Figure 46

Figure 47

6.2 Setting the Compass Screen

Set the number of dogs the real time status of which you'd like to see on the compass screen at a glance. You can choose from 3 options, 1 dog, 2 dogs or 3 dogs, as the figure below shows, according to your preference.

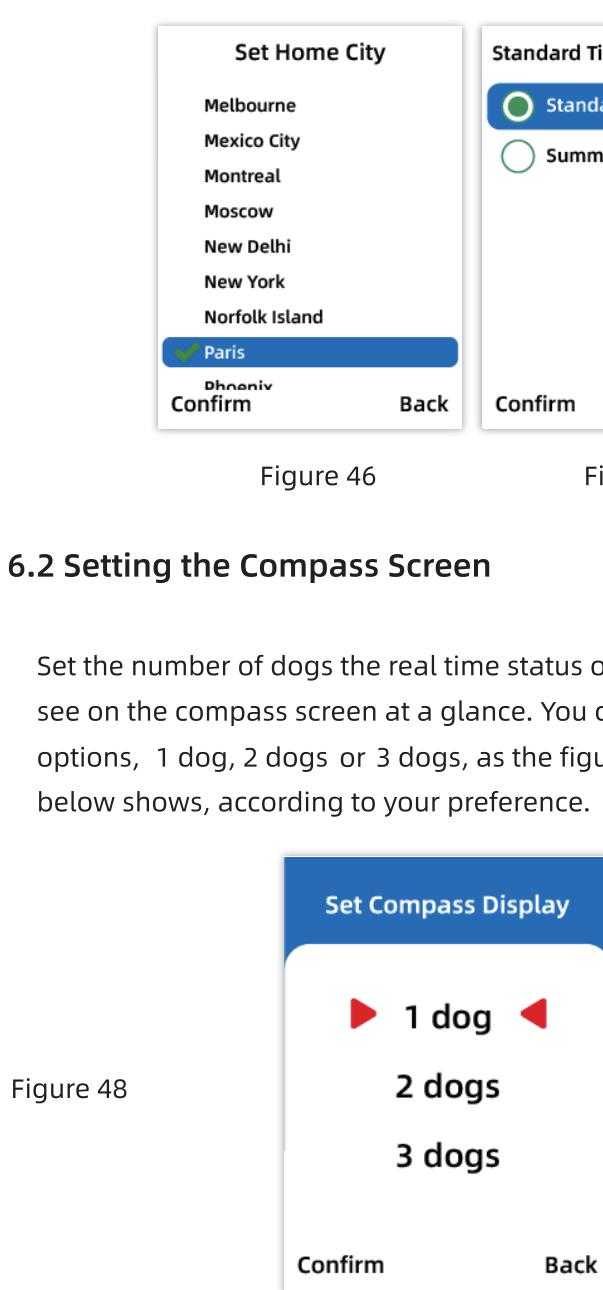


Figure 48

6.3 Calibrating the Compass

You need to calibrate the compass if you find that the direction pointed is obviously not correct, **please follow the steps below:**

Step 1: Select "Settings" on the Home Screen.

Step 2: Select "Calibrate Compass" on the "Settings" screen.

Step 3: Follow the animation to calibrate the compass, as the figure below shows.

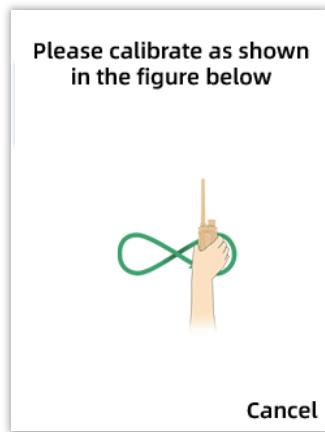


Figure 49

6.4 Selecting the Language

Select "Settings" on the Home Screen. Select "Select Language" on the "Settings" screen and press "OK" key. Choose a system language you prefer from the language list and press "OK" key to confirm the selection.

7. Viewing GPS information

Select "GPS Status" on the Home Screen. A screen displaying the current GPS status of the handheld as below figure shows will come up.

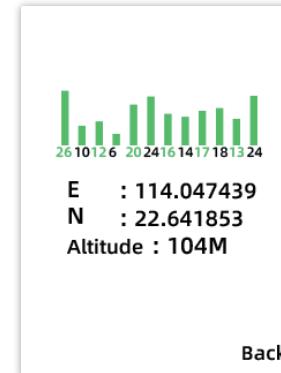


Figure 50

8. Locking/Unlocking the Keys

In order to prevent the keys of the handheld from being accidentally touched, the keys on the front panel of the handheld can be locked when the handheld is not in operation. In key lock mode, the keys on the front panel of the handheld are invalid.

The setting steps are as follows:

Step 1: Select "Compass" on the Home Screen.

Step 2: Long press the power key on the handheld until the "Keypad locked" prompt box appears on the screen.

To unlock the keys:

Long press the power key on the handheld until the "Keypad unlocked" prompt box appears on the screen.

9. Turning On/Off the Screen

When the screen of the handheld is on, short press the power key on the handheld to turn off the screen. When the screen is off, press any key on the handheld to turn on the screen.

10. Shortcut Key

From the "Compass" Screen, short press  turn to main function interface. Short press  turn to Compass interface. On Compass interface, long press  to give vibrating and flashing order to the collar selected. Long press  to give electric shock order to the collar selected.

V.- Usage Precautions

1. Battery

The positive and negative poles of the battery should not be placed in reverse when you install the battery in the handheld, otherwise the handheld cannot be turned on.

2. Electrical stimulation

Do not short-circuit the two contact points, otherwise the collar cannot stimulate dogs and the collar will be damaged.

3. Radio Antenna

- ① Do not bend the Radio antenna or replace the original Radio antenna with antennas of other brands. Replacing the antenna by yourself will result in a bad tracking effect.
- ② Do not hold the handheld by the Radio antenna letting the main body of the handheld hanging in the air, otherwise the antenna will be loosened up, resulting in a bad tracking effect.

4. Microphone/Speaker port

Do not poke in the microphone/speaker port with sharp things, otherwise the built-in microphone/speaker will be damaged and the system will not be able to record sounds or play sounds.

5. Do not soak the devices in water

The waterproof rating of both the dog collar device and the handheld device is IPX7. No water will enter the devices under normal use, but there is no guarantee that water will not enter the devices after you soak the devices in water for a long time.

6. Matching Power Adapter

The factory specifications for the power adapter are: Output Voltage: 5V, Maximum output current: 1500 mA. Do not use a power adapter with an output voltage other than 5V and a maximum output current of more than 1500mA to charge the collar device or the handheld device.

VI.- Troubleshooting

1. The devices do not turn on

- ① Check whether there is remaining battery power in the handheld device and in the collar device respectively;
- ② Check whether the positive and negative poles of the battery in the handheld are placed reversedly.

2. No signal in long distance

- ① Check whether you have installed SIM card in the handheld and in the collar respectively, whether the SIM cards are installed correctly and whether the SIM cards have expired;
- ② Check whether the handheld antenna and the collar antenna are the original antennas, and whether the antennas are bent.

3. No signal in short distance

- ① Check if the GPS Status of the handheld is normal. (Select Settings->Select GPS Status. Green columns indicate it is receiving GPS information. Red columns or no columns indicate it is not receiving GPS information);
- ② Check if the GPS Status of the collar is normal. (Receiving GPS information: the red light and the green light flashes alternately. Not receiving GPS information: Red light keeps flashing);
- ③ Check if the collar is paired with the handheld successfully (You can issue commands to the collar from the handheld. If the collar responds, the two devices are paired successfully. If the collar doesn't respond, you need to pair it with the handheld again).

4. The collar position update rate is slow

- ① Check your radio update rate and mobile network update rate
- ② Check whether you have installed SIM card in the handheld and in the collar respectively, whether the SIM cards are installed correctly and whether the SIM cards have expired.
- ③ Check whether the handheld antenna and the collar antenna are the original antennas, and whether the antennas are bent hard.

5. The collar has a short battery life

- ① Check whether the collar is set to network communication prioritized mode;
- ② Check whether the battery of the collar is fully charged.

6. Unable to import dog tracks from the handheld

Check whether the microSD card is installed in the handheld.

7. Collar charging does not work

- ① Check the collar charging port to see if there's any dirt.
Remove it if so.
- ② Check whether the power adapter is a properly matching adapter.

8. The sound of the recording is very low

Check whether the microphone port of the collar is blocked by foreign matter. Remove the matter gently if so. Do not forcibly poke in the port with sharp objects.

9. The APP cannot detect the handheld via Bluetooth

Check whether you have turned on Bluetooth on your mobile phone.

10. The time displayed on the handheld is incorrect

Check whether the time zone set in the handheld is the local time zone (Select Settings ->Select Set Time and Date)

11. The compass in the handheld is not accurate

Please go to the compass calibrating screen (Select "Settings" -> Select "Calibrate Compass") and follow the prompts to calibrate the compass.

12. The handhelds cannot receive collars' location information properly when multiple handhelds are used in the same area.

Please check if the communication ID of the handhelds are the same. Please change the communication ID to be different from each other if they are the same and then re-pair all collars with the handheld after each change is made.

13. Deviation between the collar's position showing on the handheld and its real position

Enter into compass interface, press  to select the deviated collar. Press  to enter into collar's detail information, and press . There will be a notice of "Adjustment or not". Press  to make adjustment.