USER MANUAL

T600 Bait Boat Fish Finder
(Item number : 213627)

Menu

1. Overview

    The production is application to the angler who angle the fishing in the lake, river or sea. It can help to know the depth, outline of the water bottom, and the qty and the depth of fishing or fishing school.

2. How sonar works

1）Sonar technology uses sound propagation and reflection to determine the distance and shape of an object. This product is the use of this technology, the use of sonar sensors directly detect and identify the fish in the water and the depth of the bottom.
2）When working in the machine, the sonar sensor will send out an ultrasonic signal. When the signal meets the underwater object, it will be reflected back. Then the host computer calculates its distance and position according to the reflection time and waveform.
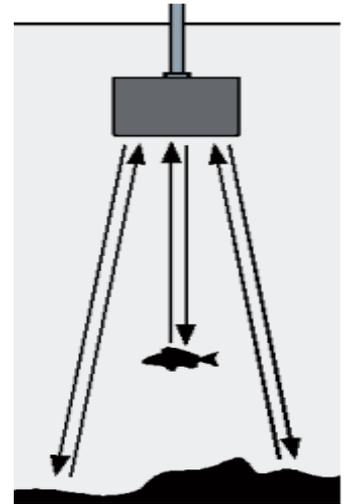
3. Product specifications

Content:	Receiver	Transmitter
Display mode:	5 inch LCD display	/
Resolution:	800*400RGB	/
Background light：	White light	/
Power consumption：	2.5-3W	1.68-2W
Sonar frequency	125KHZ	
Lower limit of probe depth range	0.6-50M（±0.1M）	
Upper limit of probe depth range	0.6M	
Operating temperature□：	-20-70℃	
Radio frequency	2.4G	
Communication distance	In open environment, water:300M / land:500M	

4. Production function

Bottom outline and water temperature display	☑
Icon of big/small fishing and depth indicator switch	☑
Fish situation and deep sound alarm	☑
Automatic depth range	☑
Clutter rejection	☑
100 grade sensitivity settting	☑
Automatic and manual selection of depth range	☑

| Customize the measurement unit meter or foot	☑

5. **Production list**

1. Holder of receiver
2. Receiver
3. Transmitter
4. Sonar transducer
5. Battery cable (not necessary if you use the batteries holder)

6. Cable of antenna

7. Batteries holder

8. Remote control antenna

9. Transducer antenna

10. Velcro patchs

11. USB cable for the screen

12. Shockproof box (not illustrate)

6. **Key definition**
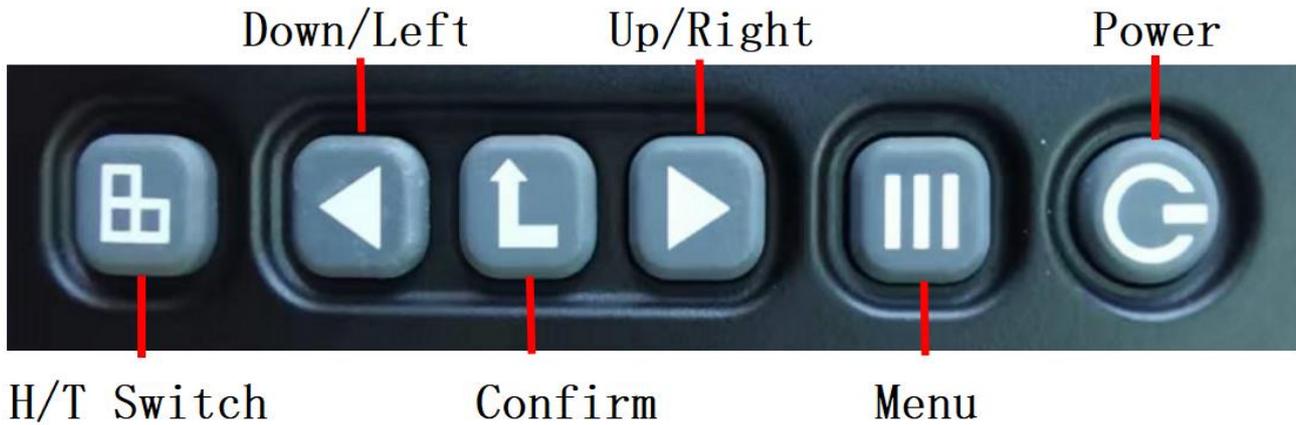
6.1 Horizontal/portrait display switch key

6.2 Right & left/Up & down

When pressing the On/Off button to enter the menu, the left and right buttons can move up and down to select the option that needs to modify data. When the background color of the menu item is red after you confirm the selection, you can modify the content of the selected option by left or right clicking.

After manual gain function is enabled, click the up and down button to adjust the value of the gain in the interface of fishing finder.

6.3 Confirm/Enter key

Confirm: In the menu state, press the Confirm key to select the menu item. After the selection, the background color of the menu item changes from black to red. Red indicates the menu item selection state, and the menu item is in the adjustable state. You can use the left and right arrow keys to modify the settings of a menu item. Once the Settings of a

menu item appear on the screen, the system immediately performs operations based on the new settings. Press the "Confirm" button again to exit the selected state. The background color of the menu item changes from red to black. At this time, the left and right arrows can be used to move the menu item up and down.

Exit: In the menu state, long press this key to exit the menu and display the main interface. Automatic gain/manual

gain

switch: Long press the "Confirm" button for 1 second to realize the switch between automatic gain and manual gain

6.4 Menu key

Menu switching：Press the On/Off button while power-on, and the menu will appear on the screen.

The menu system of this product consists of three menu groups, namely: "Sonar" "Settings" "Advanced" (as shown below), the user can press the on/off button switch between three menu groups or close menus.

In each menu group, users can use the left, right, or down arrow keys to select the menu item which need to be modified, and use the left & right, or up & down arrow keys to change the settings of menu items. Once the Settings of menu items appear on the screen, the system immediately performs operations based on the new Settings.

Save: Long press the On/Off button for 3 seconds in the startup state to automatically save the data set in the current menu

Note: *** When the product is improperly installed or out of the detection range, the depth value will display "0.0", lasting 5 minutes then automatic shutdown.

6.5 Power key

Start-up：Long press the "On"/" Off "button in the shutdown state for 3 seconds, and the product will start up. Then the system will automatically enter the mode and set value selected before the last normal shutdown。

Shutdown：Long press the On/Off button for 3 seconds in the startup state, and then "Off" will be displayed.

Save: Long press the On/Off button for 3 seconds in the startup state to automatically save the data set in the current menu.

Pause: When the machine is working, press the pause key to lock the screen; Press Pause again and the lock screen can be restored.

7. Main interface display
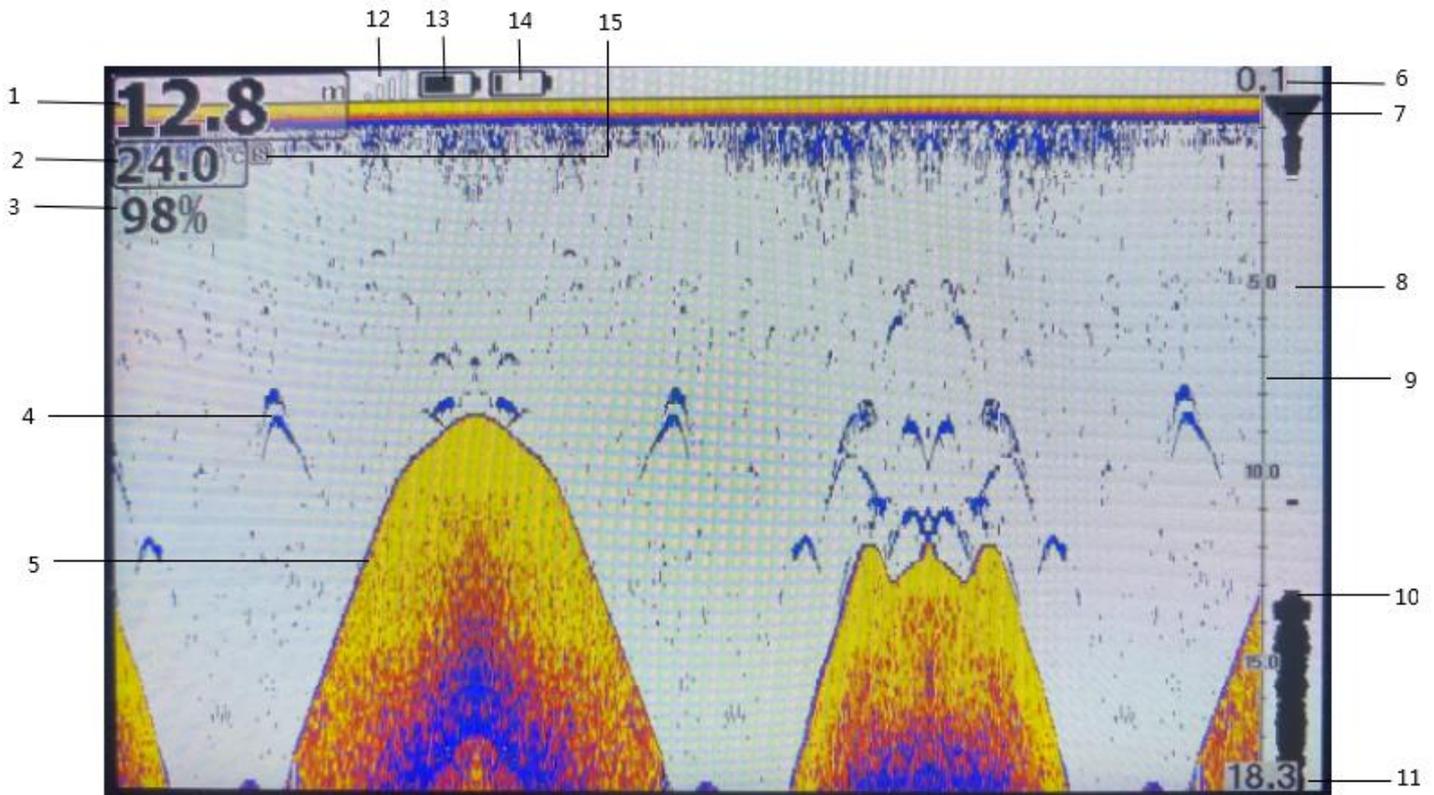
1. **Water depth display**
2. **Water temperature display**
3. **Sensitivity display**
4. **Fish bow icon**
5. **Underwater outline**
6. **Upper limit of the depth scale（Default 0.1）**
7. **Water surface identification**
8. **Current signal chart window**
9. **Depth scale**
10. **Underwater identification**
11. **Lower limit of depth scale**
12. **Signal strength indication**
13. **Power display of the receiver**
14. **Power display of the sonar box**
15. **Presentation mode flag（Do not display when presentation mode close）**

8. Current signal chart（real-time signal: RTS）

The current signal chart window displays the intensity of the latest echo as a horizontal line on the right side of the display. The wider the horizontal line, the stronger the signal, and the depth at which the echo is located refers to the depth scale.
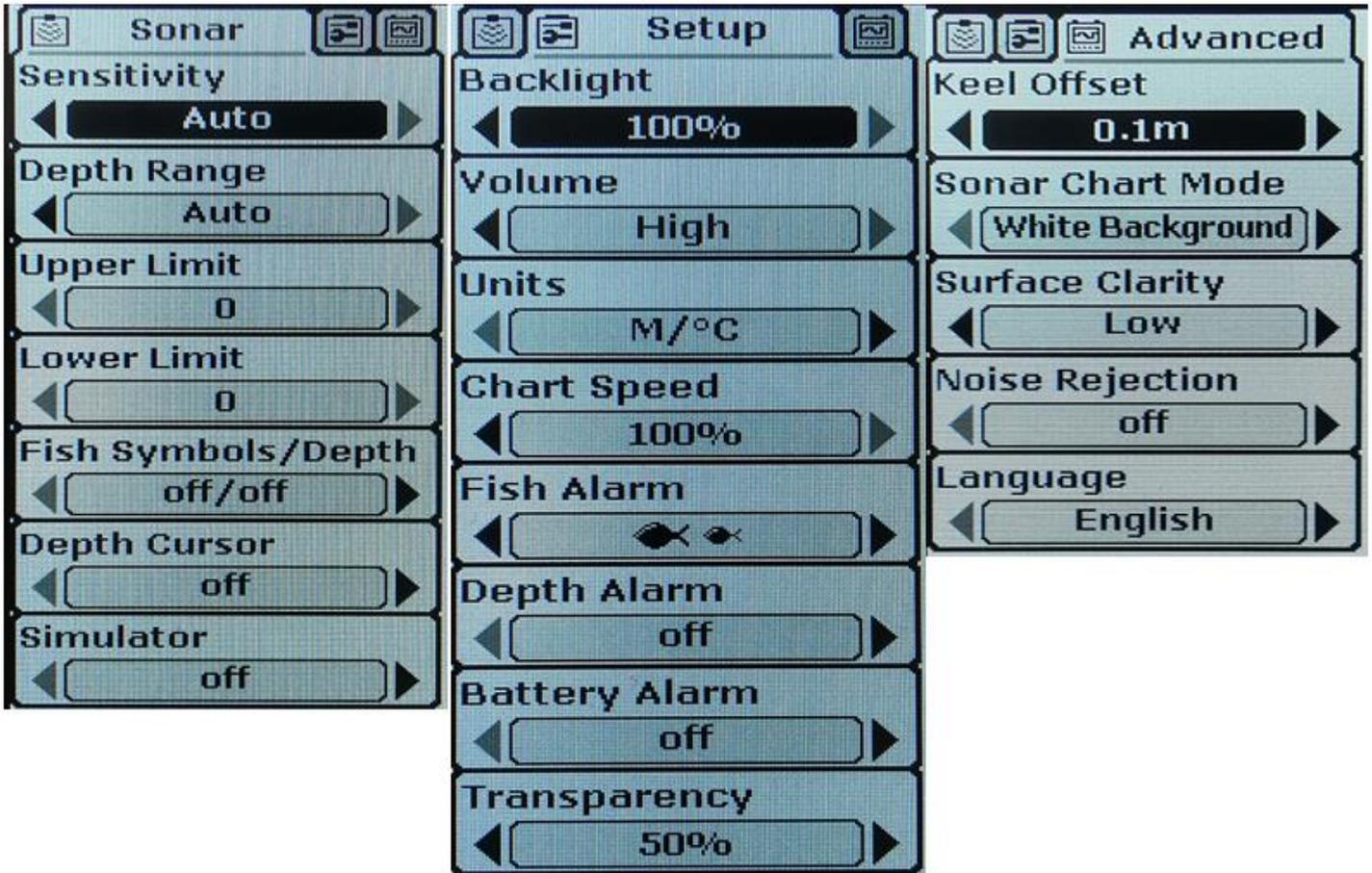
9. Menu function Settings

9.1. Menu composition

The main menu of the system consists of three menu groups：

1）Sonar menu group 2）Setting menu group 3）Advanced menu group

Use the On/Off button to switch between the three menus or close the menu.

Sonar	Setup	Advanced
Sensitivity ◀ Auto ▶	**Backlight** ◀ 100% ▶	**Keel Offset** ◀ 0.1m ▶
Depth Range ◀ Auto ▶	**Volume** ◀ High ▶	**Sonar Chart Mode** ◀ White Background ▶
Upper Limit ◀ 0 ▶	**Units** ◀ M/°C ▶	**Surface Clarity** ◀ Low ▶
Lower Limit ◀ 0 ▶	**Chart Speed** ◀ 100% ▶	**Noise Rejection** ◀ off ▶
Fish Symbols/Depth ◀ off/off ▶	**Fish Alarm** ◀ 🐟◀🐟 ▶	**Language** ◀ English ▶
Depth Cursor ◀ off ▶	**Depth Alarm** ◀ off ▶	
Simulator ◀ off ▶	**Battery Alarm** ◀ off ▶	
	Transparency ◀ 50% ▶	

9.2. Function setting of sonar menu group

Press the On/Off button once to enter the sonar menu group, which has 4 setting items:
1) sensitivity setting; 2) Depth range; 3) Fish icon/depth; 4) Presentation mode.

1）Sensitivity setting

Sensitivity
◀ Auto ▶

Press the menu key to select the "Sonar" menu group, and then press the Confirm key to select the sensitivity submenu. The optional setting value is "1%" to "100%" or "Automatic". When the background color of the menu item is red, the left and right clicks can be used to modify the selected options.

Users can show the signals they want on the screen by adjusting the sensitivity and display the signals. If the user needs to see more echo signals, the sensitivity set value should be adjusted higher. In the case of high sensitivity, a lot of underwater noise will inevitably be displayed on the screen. If the user does not want to see these underwater noises, then the sensitivity setting should be lowered. Users can adjust the sensitivity settings according to their actual needs. If the sensitivity is set to "automatic", the system will automatically select the sensitivity according to the different underwater depth, and the user does not need to set the sensitivity manually.
This menu has a total of 1%~100% sensitivity levels for users to choose.

Sonar fish finder is a device that transmits ultrasonic waves and analyzes the reflected waves. All objects in the water, whether large or small, soft or hard, will produce a certain amount of reflected waves. Larger or harder objects will produce multiple reflected waves, so a "screen" is needed to filter out unnecessary information. Here the sensitivity is the "sieve" of the "screen", the higher the sensitivity, the "sieve" "smaller".

Increasing sensitivity is equivalent to reducing the "sieve", so there is a little more left on the screen (the dots on the screen), of course, which may result in a cluttered display.

Reducing the sensitivity, on the other hand, is equivalent to increasing the "sieve hole," so that less remains on the screen (the dots displayed on the screen) and the system filters out some of the information, making the display relatively simple. But be aware that you're filtering out potentially important information.

So, after you've used it for a while, choosing the right sensitivity and the right depth range (which we'll get to later) becomes critical.

Generally, we recommend that you can increase the sensitivity when the water is deep or clear, and you can lower the sensitivity when the water layer has more impurities or is turbidity or shallow. This reduces the number of false probes. We can also use this function to distinguish between large and small fish when there are more fish. Turn down the sensitivity, increase the "sieve", and the less reflective objects will be filtered out, leaving the relatively large fish
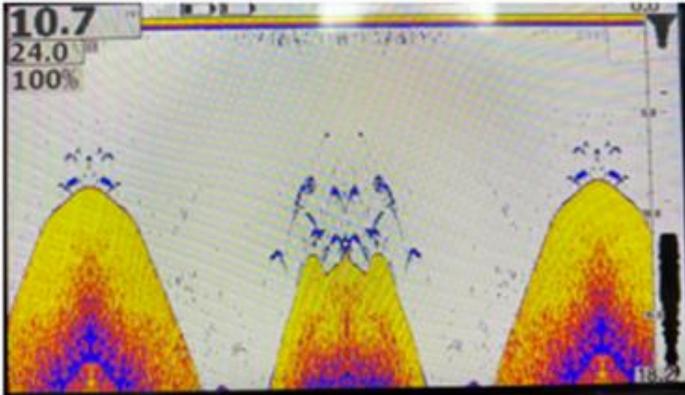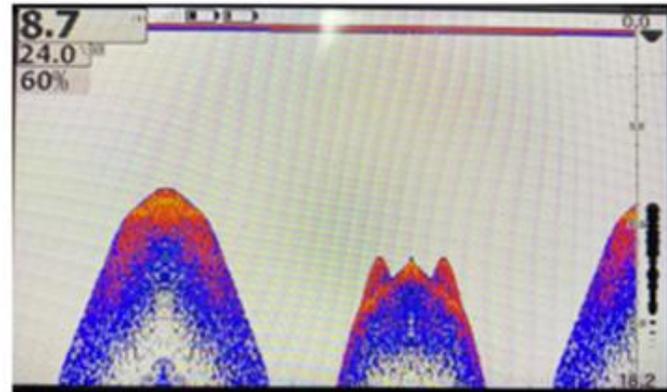
High Sensitivity   Low Sensitivity

- **2）Depth range setting**

Press the On/Off key to select the "Sonar" menu group, press the up/Down key to select the depth range item, and press the left/right key to select it

Set the unit as "FT" in depth (FT), value of "0-9 FT" respectively, "0-15 FT" "0 to 30 FT" "0-60 FT" "0-90 FT" "0-120 FT" "" automatic".

Unit set to "M" in depth (M), the value of 0 to 3 M, respectively "0 to 5 M" "0 to 10 M" "0-20 M" "0 to 30 M" "0 to 40 M" "automatic".
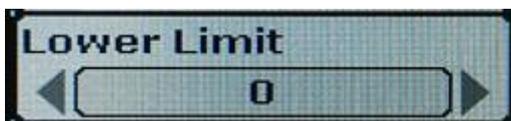
When the depth range is set to a fixed value, the screen will adjust to the corresponding display range according to the set value. Content outside the set range will no longer be displayed.

3）Upper limit of the depth range
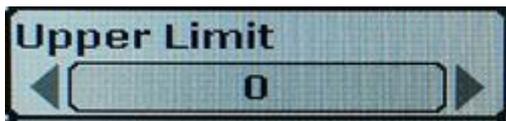
Optional values: 0 to 120FT (0 to 40m)
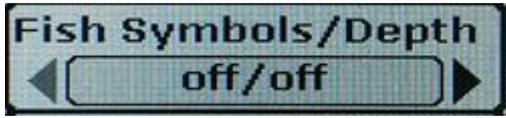
4）The lower limit of the depth range is set

Optional value: 9FT to 120FT (3m to 40m)
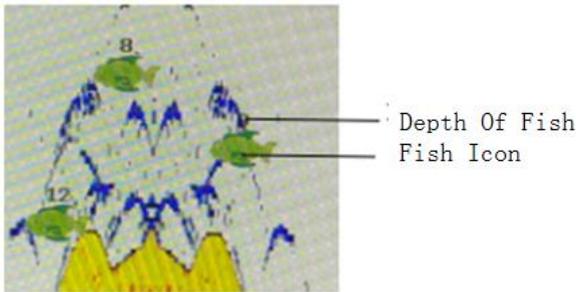
5）Fish icon/depth Settings

Optional Settings: "On/On" "On/Off" "Off/Off"
"On/Off" displays both the icon and depth of the fish.
"On/Off" displays only the fish icon but not the depth.
The "off/off" fish icon and fish depth are not displayed.

    Above the fish icon.

When the fish icon and fish depth display is set to "on", the system will echo the signal. Analyze and match the signals according to the strength of the echoes above the water bottom Display as fish icon of different sizes, and display the depth values corresponding to these signals.

This product is a very powerful echo signal analysis system, you can select part of the water noise, surface clutter and temperature change layer through the menu setting, and then the rest of the signal corresponding display as fish icon. But the system is also limited, and some cases are not recognized, such as suspended in the water of dead branches, bubbles, garbage and so on May also be displayed as fish icon.

The sonar system is not an underwater video system. It cannot visually display fish and other floating objects, such as grass, branches, debris or air bubbles. Users need to make judgments based on the reflected sonar signals.

6）Depth pointer
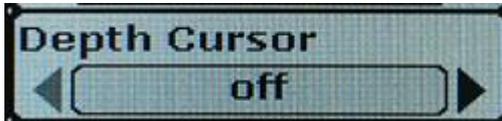
    The depth pointer is shown on the right by a horizontal line and a numerical depth box, where the number is the depth corresponding to the horizontal line. You can use the up and down keys to move the pointer on the screen at will, allowing you to find the depth of a target.

7）Presentation mode setting
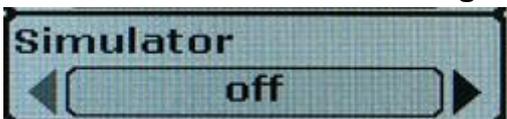
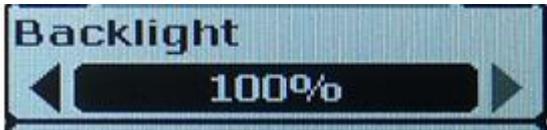   Optional Settings: "On" "Off"
    Demo mode is a powerful tool. Using Demo mode makes it easy for the user to learn how to use the fish Finder.

When set to "On", the Demo Mode flag will be displayed on the screen.

9.3 Set menu group Settings

Press the menu key twice to enter the setting menu group, which has 8 Settings: 1) screen backlight; 2) Volume; 3) Unit; 4) Refresh speed; 5) Fish situation alarm; 6) Shallow water alarm; 7) Low voltage alarm; 8) Transparency.

9.3.1 Screen background light setting

Optional Settings: Off, 10% to 100%

Users can switch the foreground light or adjust the brightness to get the right display.

When the screen backlight is set to on (10%-100%), the background light is always on, which uses a lot of power and reduces battery life. So you're better off using this feature in low light.

The fish finder's screen is visible in sunlight, and the brighter the outside light, the sharper the screen, so you can turn off the backlight when using it outdoors during the day
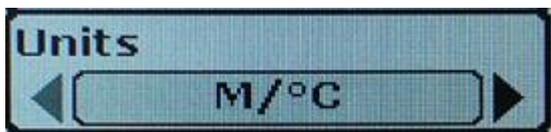
9.3.2 Volume setting

Optional setting values: High, Medium, and Low

Users can adjust the volume settings according to their needs.

9.3.3 Unit setting

Optional Settings for: "ft / ° C" (ft/C), "ft / ° F" (ft/degrees Fahrenheit), "m / ° C (m/C)," m / ° F (m/F)

Users can set the measurement unit according to their own needs.

9.3.4 Refresh speed setting

Optional Settings are: "10% to 100%"

10% refresh the slowest; 100% refresh fastest. Users can adjust the screen refresh speed according to their needs.

It is recommended that the screen refresh speed be set to the maximum so that the reflected wave information can be updated in a timely manner.

9.3.5 Fish situation alarm setting

Optional Settings: Off, Big Fish alarm, Big fish + Medium fish alarm, all fish alarm.

When the fish situation alarm is set to off, the system will not do the fish situation alarm.

Or select any fish icon to display the corresponding fish information.

9.3.6 Shallow water alarm setting

Optional Settings are "Off", "3FT(FT)" to "99FT(ft)" (1m to 30m) with increments of 0.1FT or 0.1M

When the shallow water alarm is set to "off", the system will not do shallow water alarm.

When the shallow water alarm is set to "3FT", "4FT"~"99FT "and other specific values, the system will make a judgment according to the actual measured depth and the set value. When the actual depth is less than the set value, the alarm sound will flash continuously.

Shallow water alarm function is designed for boat users. Users can set this function according to their actual needs.
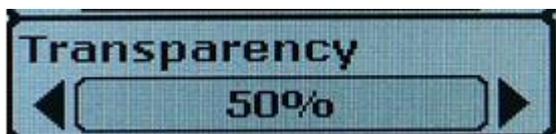
9.3.7 Low voltage alarm setting

The optional value is Off, 10V to 12V, in increments of 0.1V.

When the input battery power is equal to or less than the menu set, the low voltage alarm sound and battery power display reading will blink.

9.3.8 Display transparency setting

Optional Settings are: "0%" to "70%"

Bezels and menu boxes for readings such as depth and temperature can block part of the sonar signal picture. If the user still wants to see the signal in this situation, they can set the screen opacity to the highest level, and the blocked signal can be faintly displayed in the menu box or at the bottom of the readout border.

9.4. Advanced menu group Settings

Press the menu key three times to enter the advanced menu group. There are 5 Settings in this menu group, which are: 1) Probe position compensation; 2) Sonar scanning mode; 3) Surface clutter suppression; 4) Clutter filtering; 5) Menu language.

9.4.1 Probe position compensation setting

Optional Settings are: "Off" "-9ft (ft) "to "+9ft (ft)" {"-3m (m) "to "+3m (m) "}, increasing or decreasing in 0.1 depth units.

Since the probe is installed on the boat, it will be at a certain distance from the water surface and the keel of the boat, the user can want to know the depth from the water surface to the bottom (+ value compensation), or the depth from

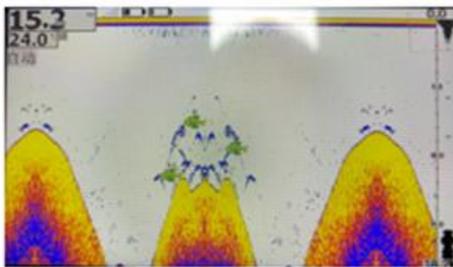the keel to the bottom (- value compensation), as he wishes.

Note: The default value is 0.1M
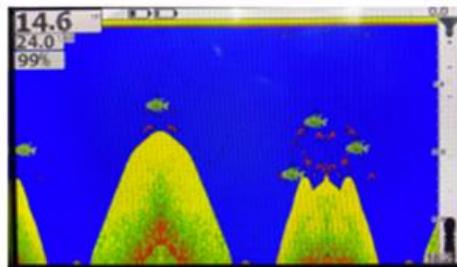
9.4.2 Sonar scan mode Settings
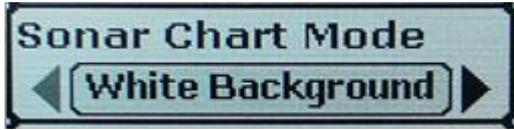
Optional setting mode: "white background mode"; Blue background pattern; "Gray scale model"
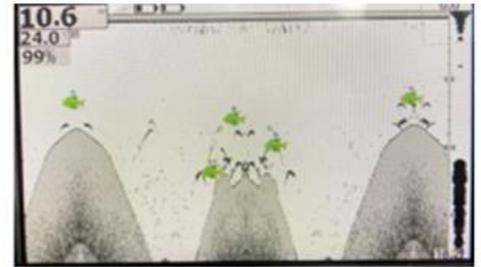
Users can choose the corresponding sonar scanning mode according to their preferences.

White background mode   Blue background mode   Gray scale model

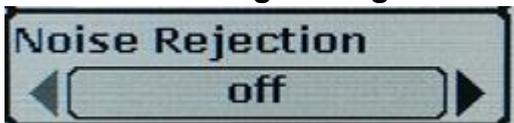## 9.4.3 Surface clutter suppression Settings

Optional value: "Off"; High; "Middle"; "Low"
Users can adjust the Settings according to their own needs.
Surface clutter suppression means that the system automatically attenuates the background noise signal in shallow water so as to correctly analyze the normal echo signal. Lower Settings will show more surface clutter.

9.4.4 Clutter filtering Settings

Optional value: "Off"; High; "Middle"; "Low"
Users can adjust the Settings according to their own needs.
Noise suppression is the system automatically filters discrete noise to achieve better analysis results, but also filters some useful signals. This noise suppression feature probably gives the user the best display in most cases.
If your environment is noisy, try setting the clutter filter to its highest setting. However, if you still see noise, we recommend that you take steps to identify the source of the interference and resolve it, rather than constantly using the unit high setting.

9.4.5 Menu language setting
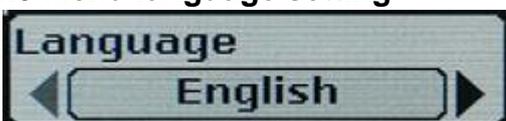
This product offers 17 menu languages: English; Russian; French; Chinese; Japanese; Finnish; Polish; German; Italian;

Spanish; Dutch; Korean; Swedish; Greek; Danish; Czech; Portuguese.
Customers can choose the corresponding language according to their own needs, so as to better use.

Important (pairing code) : To avoid interference from other wireless fish detectors or receivers that do not receive the transmitter (sensor) signal, you can reset the code between the receiver and the transmitter yourself by following the steps below:

1、Switch off receiver and transmitter before code.

2、Holding down the up key and power key , the screen displays the interface of code matching and frequency changing after 3 seconds.

3、When the transmitter is turned on, the list of transmitters can be displayed on the left side of the interface. Select the

transmitter that you want to pair，press confirm key , The right hand side will show the current frequency （This model is 125KHZ）and frequency range(default 2， it is better to stagger the frequency). Change OK then press "Connect" key，it will show the progress and will show "success" after finish，

4、Turn it on again and it will work normally.

5、On state， If you want to get out of code matching，hold key for 3 seconds then quit.