# **FISH FINDER**

XJ-01 User Guide





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#### 1. Introduction:

Thanks for choosing the Fish Finder of our company. This unit is designed for the fishing lovers. The unit can be used in rivers, lakes, or sea. We offer 12 months' maintenance with any damages by non-human factors; The specific warranty terms refer to the guarantee lists. To familiarize yourself better with the product's operation and maximize the function, Please read the User's Guide carefully for better use. For any possible problems you may encounter during the operation, please read the User's Guide for reference, or contact our technical staff.

The following items are included in the product:

- 1) A wireless remote sonar sensor
- 2) A handheld wireless receiving host
- 3) A copy of User's Guide
- 4)A charge cable

#### 2. Attention:

The product disassembly and maintenance are only to be performed by our company technical personnel. Any of the following situations will be outside of warranty guarantee:

- 1. Unauthorized disassembly or maintenance.
- 2. Any man-made damage.
- 3. The handheld host drop into the water.

## 3. How to install the battery

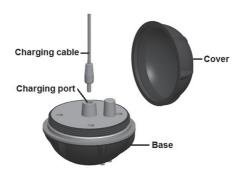
Installation steps are as follows:

- 1. Open the back cover of battery.
- 2.Install the battery,be certain to follow the marks on the inside of the box according to the battery indicator symbols.
- 3.Slide the battery cover towards the top of the unit until it is completely closed.

#### Note:

- There are two ports of the charging line, USB port connects 5V DC power supply, another connects the sonar sensor's DC jack.
- When the probe's battery is lower than 3.2V, the battery indicator symbol on the host screen will twinkle. It means the probe should stop working and need to charge.
- 3. If there is water inside, please don't charge, to avoid adverse consequences, and it should be sent back to the factory to get maintenance as soon as possible!
- When charging, charging indicator (red) will be on; and the light will be off when the batteries are full.





Sonar Sensor Using Induction: ( tie the sensor to the rod)

Probe D (M)	epth	Pro	be Area (M)
0 5 10 15 20 25 30 35			0 10 20 30 40 50 60 70
40		_	80



You can refer to the chart!

This product is designed with user-friendliness in mind. Attach the sensor to the fishing rod's extreme and throw them into water as you do with float and baits. After switching on the main unit's power on, you are ready to fish. Sonar technology is used in the product, the sensor transmits ultrasonic waves to the water, and the microprocessor will filter and analyze the fed-back signals. The analysis result will display to the screen after being compiled. The latest data is displayed on the very right of the screen but disappears on the left. The water bottom contours are showed in the middle as well as water depth, fish size, and location etc.

#### 4. Attention:

1. While the sensor is work, do not hold it at the bottom; otherwise, the

testing results may be error or even damage to internal structures and elements. To pick up the sensor working in water, please take hold of the antenna post at the sensor's top.

2. The sonar sensor is designed to work durably in normal service. However, due to the wave of ups and downs in the water, it may impact sensors or make it hit the rocks and other objects, which will result in damages to the device. Therefore, for water areas with depth less than 2 foot (0.6m), we recommend that you avoid using the unit!

## 5. Applied mode:

#### 1. Sonar Graphic Mode:

Fish finder renders real-time conditions of the water bottom with sonar graphic. Throw the sensor into water, drag it slowly at a stable speed, and you can view accurate information displayed on the screen, including water bottom contour, structure, depth, fish location, etc.

## 2. Stationary Float Mode:

Throw the sensor to water and let it undisturbed. It will float on the water surface, monitoring submarine news in a real-time method. Information will be automatically updated on the screen as soon as the fish enter the sensor detecting area

#### 6. Sonar sensor introduction:

The sonar sensor has two parts. One part is sonar, the other is RF. Signal acquisition depends on sonar part. Signal communication depends on RF part.

# 1.Power supply

The sonar sensor is supplied by a Polymer battery (3.7V). When the battery has run out, you can recharge it. The method you can reference to the map.

#### 2 Electronic switch

The sonar sensor's bottom has two pins. It is the switch. When the sonar sensor is thrown into water, the sonar sensor will work by using the electrical conductivity of the water conduction. And you should keep it in a dry and insulated place after using. If you store it in a wet or conducted place, the humidity or conductor will cause the sonar sensor power on automatically. Please clean the sonar sensor with clean water and dry it in the air before storing.

#### Sensor Working Theorem:

The sensor working theorem is the electrical conductivity of water.

#### Work process is as follows;

1. When the sensor connect to the water, or the two pins touching water,

the sensor will begin working.

When the sensor is dropped out from the water, you can dry the remained water from pin surface, the sensor will stop working automatically.



Water Switch Terminal

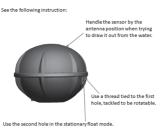
## Sonar Sensor Maintenance:

- 1. Do not place the sonar sensor in a wet area when not using, the dampness may turn on the sensor itself automatically. The battery will be depleted fast. Also avoid placing it on a metal board!
- You should keep it in a dry, nonmetal place! The place is far away from any metal equipment.
- 3. Clean the water of the surface after use. Dry it in the air before keep it.

How to use the sensor:

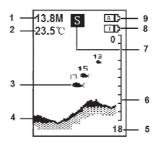
The two holes of the front end are for tying fishing thread. If you desire to use it in the Stationary Float Mode, bind the fishing hook with light threads to the second hole. However, be informed that if the sensor encounters barriers, the fishing thread can be easily broken while being dragged toughly. For fear of the practice, we advise you not to pull the thread if unnecessary. for fear that you may be unable to regain your sensor due to the broken thread.

Alternatively, in case you wish to drag the sensor as you see fit, you may tie another light thread to the first hole, therefore preventing the failure of receiving your sensor.



bind the fishing hook with light threads to the second hole, Be caution not to hang over-weight to the hook line, thus the sensor will be likely to submerge, causing the signal terminates.

## 7.Display Interface:



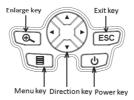
# Display Interface Introduction:

1. Water Depth Reading	6.Depth Scale
2. Temperature Reading	7. Simulation Mode
3. Fish Icon	8. Transducer Power Indicator
4. Bottom Contour	9. Recevier Power Indicator
5. Depth Range	Ĩ.

# 8. Menu key introduction:

The key design style of the product is simple and easy to operate, it is

very convenient to complete the function set you are required .



1."Power key", turn on/off the power. Press the switch button for two seconds and then release, the power will be on, the unit starts working. Press the key for three seconds and release, the power will be off.

Note: 1) If you want to enter the simulation mode, you must enter the "SENIOR" menu at first, And then select the simulation title to set.

- 2)From simulation to normal mode, must enter "SENIOR" menu to close.
- "ENT key" , function enter key.
- ESC key" , Exit the menu or parameter setting.
- $\ensuremath{4.\mathrm{``Enlarge\;key''}}$  , Enlarged underwater display
- 5. "DIRECTION key", This key is used for title selection and the parameter setting.

# 9.Parameter Settings:

There are 3 menu bars, 9 parameters for the user to choose and set.

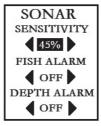
## 9.1 Sensitivity Setting:

Sensitivity indicates the intensity of sonar signal. The unit has 20-degree sensitivity for user to select. Normally, if you want to get more chances to detect the fish, it is up to choose a higher degree sensitivity. When the water is shallow or exists noise (made by ship's motor etc), you should select low sensitivity. Thus the detection will be more accurate.

#### Operation as follows:

Press" [E] "Menu key, enter" SONAR". Through up/down arrow to select. When "SENSITIVITY" parameter is selected, you can through the left/right adjust the "SENSITIVITY" as you want (5~100 %). After setting, press "ESC" key, exit the parameter setting. The unit will enter normal work mode

NOTE: 5% is the lowest, 100% is the highest.



## 9.2 Fish Alarm Setting

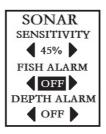
Fish alarm is used to turn on/off the alarm when the unit detects fish.

When the fish alarm is on, it will alarm if detecting fish. When the fish alarm is off, it won't alarm if detecting fish.

# Operation as follows:

Press" [

"Menu key , enter" SONAR". Through up/down arrow to select. When "ALARM" parameter is selected, you can through the left/right adjust "FISH ALARM". Then you can set fish alarm on/off as you want. After setting, press "ESC"key, exit the parameter setting. The unit will enter normal work mode.



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## 9.3 Depth Alarm Setting

Depth alarm is designed for user to set a number (1-99FT) of depth. When the detecting depth is equal to or less than the setting, it will alarm. Alerts the user! You can increase the depth or shut off this function to cancel the depth alarm.

## Operation as follows:

Press" [= "Menu key , enter" SONAR". Through up/down arrow to select. When "ALARM" Parameter is selected, you can through the left/right adjust "DEPTH ALARM". Then you can set depth alarm (1~99FT, off) as you want. After setting, press "ESC" key, exit the parameter setting. The unit will enter normal work mode.



NOTE: Depth alarm is mainly for navigation. User can set it up according to the actual needs, to avoid running on the rocks.

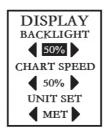
## 9.4Backlight Setting

Backlight refers to external light source. The unit has white LED backlight, you can use it at night or under weak light. To prolong the battery life, please use this function only when you really need it.

## Operation as follows:

Press" 

"Menu key , enter"DISPLAY". Through up/down arrow to select. When "BACKLIGHT" parameter is selected, you can through the left/right adjust the "BACKLIGHT" as you want. After setting, press "ESC" key, exit the parameter setting. The unit will enter normal work mode



NOTE: The unit ha 11 level backlight(10% is the darkest,100% is the brightest 0% is Off) for user to choose. When Backlight off, press any key, the backlight lamp will light 3 seconds later, automatically shut down.

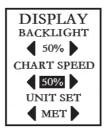
## 9.5Chart Speed Setting

Chart Speed is adjust the screen updated speed. The unit has 10 grades ("100%" is the fastest) for user to choose. In general, you should set the update speed highest. Thus, you can update the detected underwater information in time

## Operation as follows:

Press" 

™Menu key , enter "DISPLAY". Through up/down arrow to select. When "CHART SPEED" parameter is selected. Then you can set chart speed (10~100%) as you want. After setting, press "ESC" key, exit the parameter setting. The unit will enter normal work mode.



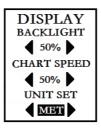
#### 9.6 Unit Setting

Unit setting refers to set the product measurement unit. Including Depth unit and Temperature unit.

#### Operation as follows:

Press" 

™Menu key , enter"DISPLAY". Through up/down arrow to select. When"UNIT SET"parameter is selected, you can set unit as you want. After setting, press"ESC"key, exit the parameter setting. The unit will enter normal work mode.



NOTE: UNIT SET is divided into imperial(IMP) and metric(MET).

#### 9.7Depth Range Setting

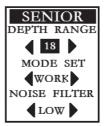
Depth range is the biggest depth of detect range. If the detected rang is out of the biggest rang, no water bottom contour will be displayed on the screen. In other words, the depth range setting is used to set the water bottom contour width of the screen. For example, the water depth is 10 meters, and the depth range is 20 meters, the water bottom contour width of the display will be 50%. The product has six depth range (3, 6, 9, 18,

36, AUTO) for the user to choose. Users can choose according to the actual water depth. Recommended depth range is set to be deeper than and closest to the actual depth of water, in order to obtain the best effect of detection.

## Operation as follows:

Press" 

"Menu key , enter "SENIOR". Through up/down arrow to select. When "DEPTH RANGE" parameter is selected, you can through left/right arrow adjust the "DEPTH RANGE" as you want. After setting, press "ESC"key, exit the parameter setting. The unit will enter normal work mode



#### 9.8 Mode SET

Mode Set is convenient for users to set the working mode of the product.

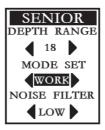
Operation as follows:

Press" 

™Menu key, enter "SENIOR". Through up/down arrow to select. When "MODE SET" parameter is selected, you can through left/right arrow adjust the "WORK MODE" as you want.

#### NOTE:

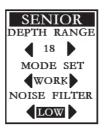
- This product includes SIMU(simulation mode) and WORK(working mode).
- 2.Simulation Mode refers to simulation test, the depth of water and fish are simulated. It is designed for the beginner to learn and use this product more easily.
- Whether simulation or working mode, reboot automatically enter the last working mode.
- 4.If the product does not receive reflected sonar signal in 5 minutes, (water meter line does not move), the product will shut off automatically.



#### 9.9 NOISE FILTER

 This function is divided into off, low, medium, high, four levels, off is default. The feature will enhance or reduce the random noise of the display.

2)If this feature is turned off, all the acoustic signals in the water will be displayed, if the adjustment to the low, will show all the matching of the ultrasonic reflection, if the adjustment to the medium, only the sound wave signal of moderate intensity is displayed, and if the regulator is adjusted to the high, only the strongest signal of the group is displayed.



#### 10. Analysis of Frequently Asked Questions:

## A, Can not power on

1 ) Please make sure the battery power is enough, and the battery is

correctly installed.

2 ) Please confirm that the environment temperature is above - 20 °C (-4 degrees Fahrenheit). When use the product in a cold environment, make sure that the whole working temperature is appropriate.

## B, Depth indicator"---"

- Please confirm the water depth is in the range of 1 to 36 meters, the depth refers to the distance from the sensor to the water bottom.
- 2 ) Please confirm the water wave is small, the sensor floating on the water, and the state of water surface is stable.
- 3) The water is too shallow. This is because of the sonar physical characteristic, the depth below 1 meter is within the blind spots of sonar. Therefore, we recommend that users don't use the unit in the small enclosed water such as swimming pool or kegs.
- 4) Fishing on ice or "shoot-through" the hull of a boat, the number of depth readings will be unstable or displayed as "--", please confirm there is no bubble between the hull or the ice and water. For the bubble will cause the fish finder not to work normally.
- 5) When Fishing on ice, depth indicator displays "--" .It maybe the environment temperature is lower than 20 °C (-4 degrees Fahrenheit). The internal sensor will stop the sonar pulse emission.

# C. Echo signal intermittent or depth display instable cannot detect the fish

- 1 ) Make sure the sonar sensor vertically downward.
- 2) Underwater vegetation system is complicated, it will lead to the depth reading disorder. If you are sure of the reason, advise to stop use in this region.
- 3) Oil contamination would form a layer of thin film around the surface of the sensor, it will affect the normal work. Please clean the stains of the sensor surface.
- 4) The electrical noise of ship will effect the sensor to work normally. If encounter such a situation, please replace the sensor, let it far from the ship motor.
- Please check the battery voltage. The battery voltage lower will weaken the transmission power of sensor.
- Check the sensitivity setting, try to increase the sensitivity.
- 7) Sensor may be in the rapids made by the ship. If so, you should replace the sensor installation location, to avoid the effect by the rapids.
- 8) Speed over 8 km/h will lead to this situation. Please reduce the speed!

#### The Product Maintenance:

In order for your fish finder more attractive and durable, we recommend you follow the below steps:

#### 1. For the shell

Cleaning the product's outer case with a cloth dipped mild detergent except the screen, and then dry it up.

#### 2. For the Lens

Use a piece of soft cloth to clean the lens. A little fresh water or eyeglass cleaner can be used if needed. If stubborn dirt or oil stains remains on the screen, do not be wiped with force, not scratch the surface. This action maybe scratch the lens.

#### 3. For storage

Never place your product in a wet or high-temperature or low temperature environment or on a metal board. Store the product in an insulation and dry place. Remove the battery before storage!

# 4. Working temperature

The low temperature will cause damage to the electronic part, the working environment temperature not lower than -20 °C (-4 degrees Fahrenheit).

The product specification:

## 1. Display

Display: TFT LCD

Display Size: 58x45mm

Display Dot Number: 320\*240

Backlight: White LED Backlight

## 2. Sonar & Radio

Depth Range: 2-148Ft/0.6-36M

Sonar Frequency: 125KHZ

Sonar Beam Angle: 90 degree

Radio Frequency: 2.4G

Operational Temperature: -20 ~70°C

## 3. Power Supply:

Mainframe :4\*AAA

Transducer: Polymer battery 3.7V

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Note:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- -Reorient or relocate the receiving antenna.
- -Increase the separation between the equipment and receiver.
- -Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- -Consult the dealer or an experienced radio/TV technician for help.

FCC Radiation Exposure statement

The device has been evaluated to meel general RF exposure requirement. The device can be used in portable exposure condition without restriction.