1. Portable Fish Finder Operation Guide
This product is designed for the fisher in fishing. The unit can be used in the river, lake, or the sea. It can help you find the fish and the depth of the water. Especially, it can make you feel at ease in fishing.

2. Introduction to sonar theory:
Sonar technology is based on sound waves. The system uses sonar to locate and define structure, bottom contour and composition, as well as to find depth directly below the transducer. The transducer sends a sound wave signal and determines distance by measuring the transmission time between the transducer and the detected object. Then, it uses the reflected signal to interpret location, size, and composition of an object.

3. Display View
1. Sensitivity Indicator
2. Battery Save On/Off
3. Fish Alarm On/Off
4. Backlight On/Off
5. Battery Strength Indicator
6. Water Depth Display
7. Fish Depth Indicator
8. Fish Location Indicator
9. Bottom Contour Detector Display
10. Weed Detector Display

4. Key-Press Operation And Setting
POWER - Power key turn the power On
SETUP - Function set up key
ENTER - Function affirm key

5. Fish Show
If the fish finder determines that the sonar has detected a fish, the display will show a fish-shaped icon (fig-7). The first column of fish indicators on the right of the display shows the most current information. This column is then moved to the left as a new reading is displayed. Fish icon moved in every 5 seconds.

6. Note:
The indicators move away from the right to the left at a constant speed. This motion is not due to the movement of the fish.

7. Use the fish depth indicator to measure the fish's depth from the sonar sensor (fig-8). This can be done by dividing the depth reading by 10. This number represents the value of each box. (Example, the depth is 200 FT, the fish symbol appears 5th box from the top. This means the fish is 100FT from the surface.)

8. IMPORTANT:
NOTE: There are 5 user selectable sensitivity settings to choose. The sensitivity should be enhanced in dirty or deep water. The sensitivity should be lowered in shallow water. This function makes the detection more accurate. Backlight illuminated all the time when backlight feature is on. This feature will greatly reduce the battery life of the unit. So it should only be used in conditions of low light. The backlight will illuminate for 3 seconds whenever a key is pressed when the backlight feature is set to off.

9. Alarm:
( ) Press the ENTER key to activate or deactivate the current feature. The screen will automatically return to normal operation after 5 seconds if no key is pressed.

10. Battery save:
Press and hold the SET UP key for 3 seconds, the sensitivity ( ) indicator will blink. Press the SET UP cycle. The indicator will blink for the current feature to be set. Sensitivity ( ) Save( ) Backlight ( ) Alarm( ) Press the ENTER key to activate or deactivate the current feature. The screen will automatically return to normal operation after 5 seconds if no key is pressed.

11. Change measure units:
Press and hold the SET UP and ENTER keys at the same time for more than 5 seconds, the display will flash the current units. Press SET UP key to choose M (M= meter). ENTER key to choose F (F= foot). The screen will automatically return to normal operation after 5 seconds if no key is pressed.

12. 200kHz
200kHz
5.3 WEEE SHOW
The display indicates the presence of short weeds by turning on fig-9. Moderately tall weeds are detected by turning on fig-10. Tall weeds are detected by turning on fig-11.

A small pile of sands at the bottom by turning on fig-12.
A Moderately pile of rocks at the bottom by turning on fig-13.
A large pile of rocks or trees or ledges at the bottom by turning on fig-14.

6. Fixing Sonar Sensor
6.1 Pull out the rubber stopper, adjust float so that it is 7 to 10 inches from the sensor, or at your desired depth. Replace the rubber stopper by pressing it firmly into the float. The sensor float must be adjust so that it is a minimum of 7 inches away from the sensor (fig-15).
6.2 Toss the sonar sensor and float assembly into water at your desired fishing location. To toss, place the sonar sensor and float in your hand, and pitch underhand. Do not throw the sensor by the cable as this maybe cause unrepairable damage. Before tossing, be sure that the cable is free from tangles and is not wrapped around anything.
6.3 Your fish finder includes a combination adapter, mounting bracket for the sonar sensor (fig-16). The adapter includes mounting taps so that you can attach it to any flat surface or boat hull (fig-17) and appropriate rod. The adapter is removable and adjustable up to 180 degrees. 6.4 Use a pole to guide the sonar sensor to a desirable position (fig-18) or add floats on the cable to floats on the water (fig-19). Note: Incorrect to use. Do not allow the cable to sink to the bottom, it maybe entangled in debris (fig-20). The float can be removed from the cable, if you find that you are not need it. Remove the rubber stopper from the cable by sidings and gently pull the float out off the cable toward the plug.

7. Fishing at the boat or ice
7.1 Fishing at the boat
7.1.1 Toss the sensor and float into the water as the previous instructions.
7.1.2 Attach the adapter to the boat hull using the mounting base.
7.1.3 "Shoot Thru" the hull of a boat. Place the sonar sensor with petroleum jelly and press it against the hull bottom with a twisting motion (fig-21).

Note: If depth readings appear as "---" while using one of these methods, place the sonar sensor directly into the water to verify that the fish finder is operating properly. If it operates properly while directly in the water, reposition the sensor in a new location in the hull, and repeat method 7.1.3.

8. Product specification
Display: TN/ANTI-UV LCD
Back lighting: Green LED
Power: 4-AAA alkaline batteries
Measure unit: feet/meter
Sensor beam angle: 45 degrees
Depth range Max: 100M/328 Feet
Depth range Min: 0.6M/2.0 Feet
Operational Temperature: (-20°C - 70°C)

9. Attachments:
1) Round transducer with 25ft cable
2) Transducer adapter
3) Stainless Bolt
4) Stainless wing nut
5) Neck strap
6) Product specification