5.7" COLOR LCD FISH FINDER

**Model FCV-688**

The FCV-688 provides valuable information to help you locate rich fishing grounds and boost your catch!
Recognizes individual or multiple fish instantaneously

ACCU-FISHTM is a revolutionary fish size assessment function of the FCV-688. In order to assess individual fish size, the echo strength from the fish needs to be computed and turned into fish size display on the screen. It can detect the fish size of 10 to 199 cm, in the depth of 2 to 100 m.

Displaying fish size or fish depth

Activating the ACCU-FISHTM from the menu, FCV-688 displays fish size on the individual fish echo. When the ACCU-FISHTM is used concurrently with fish marks, it greatly helps anglers to identify fish targets on the display. You may also select and display the target depth instead of fish size, which helps to see how far the fish is from the boat.

Displaying fish marks

The fish mark can be utilized to display on individual fish echoes when detected. It helps beginners to identify the fish targets on the display for a more fun fishing experience. Fish mark is selectable from two types of fish symbol, circle and square. The fish symbol, displayed in two different sizes (Large: over 50 cm, Small: 10 to 49 cm), is a great help for anglers to identify fish targets. Circle and square indentify targets without hiding fish echo.

Displaying fish size or fish depth

Activating the ACCU-FISHTM from the menu, FCV-688 displays fish size on the individual fish echo. When the ACCU-FISHTM is used concurrently with fish marks, it greatly helps anglers to identify fish targets on the display. You may also select and display the target depth instead of fish size, which helps to see how far the fish is from the boat.

In some instances, fish size indicated on the FCV-688 may differ from its actual size. Please carefully read the operation manual prior to utilizing this feature.
Bottom Discrimination feature

The FCV-688’s Bottom Discrimination feature enables the fish finder to indicate if a major component of the bottom is mud, sand, gravel or rocks. The Bottom Discrimination feature provides you with valuable information to locate rich fishing grounds, while boosting your catch of the day.

White Line function distinguishes fish from bottom

The white line function helps you distinguish bottom fish from the bottom by changing the strongest signal color to white. This function is not only useful discriminating bottom fish but is also valuable for judging fish school density. The setting range is 0%-100%, in intervals of 1%. The higher the value the thicker the line.

Please keep the following in mind when using the Bottom Discrimination Sounder:

1) Use at a depth of 5 m - 100 m.
2) Use transducer in transom mount or thru-hull mount.
3) Set the transducer parallel to the bottom of the craft.
4) To show a consistent display of the actual bottom, set the range display of the fish finder screen to “auto”.
5) Enter the ship’s draft value.
6) Use a ship speed of 10 kn or less.
7) In some instances, bottom component indicated on the FCV-688 may differ from its actual bottom structure. Please carefully read the operation manual prior to utilizing this feature.

Field Test

Screenshot from fish reef in lake: Many fish marks appears on the screen in the thick weed bed. The white line function helps distinguish bottom and weed from the actual fish.

Post-Processing Gain Control

With conventional gain controls, changes are made for new echoes only when a change in the setting is applied. With the FCV-688’s Post-Processing Gain Control, changes in the gain setting are applied to new echoes as well as all of the echoes already on the screen. Because the changes are applied to both new and existing returns, you will be able to quickly and easily find the right gain setting for your conditions.

Fish Alarm function

When fish echoes come in the area which you set above the bottom, beeps sound and the alarm icon flashes at the top right corner of the screen. Furthermore, an integrated alarm setting is also available that can be set by every and each condition, including water depth, target depth, water temp, bottom component, etc.
Swivel mounting bracket to adjust the angle of the display unit

The gimbal mount allows the display unit to swivel around when desktop mounted. You can adjust the angle of the display to get the optimum viewing angle.

**SPECIFICATIONS OF FCV-688**

**GENERAL**
- Frequency: 50 and 200 kHz
- Output Power: 600 W

**DISPLAY**
- Display Type: 5.7" color LCD
- Effective Display Area: 170 x 6.7" (W) x 116.2 x 6.7" (H) mm
- Pixel Number: 640 x 480 (VGA)
- Display: Single frequency (50 or 200 kHz), Dual-frequency, Zoom, Nav data, A-scope, Marker zoom, Bottom zoom, Bottom-lock, Bottom Discrimination, ACCU-FISH™
- Basic Range: 2-1200 m*
- Range Phasing: **m, ft, m, ft, Hft, lb can be selected in the menu**
- Alarm: Bottom, Fish (Normal), ACCU-FISH™, Fish (B/L), Bottom Discrimination, Fish Level, Temperature, Speed, Arrival and Battery
- Language: CV-688C: Chinese, English
- CV-688E: English, French, Spanish, Thai, Vietnamese, Indonesian, Burmese
- Range Phasing up to 1200 m
- Expansion Range: Bottom-lock expansion: 2-10 m
- Sectional expansion: 2-1200 m
- Picture Advance Speed: 8 steps: stop, 1/16, 1/8, 1/4, 1/2, 1, 2, 4
- Pulsedelay & PRR: 0.1-3.0 ms, Max 3,000 pulse/min
- Interface: (Input) BWC, GGA, GLL, GNS, HDG, HDT, MDA, MTW, MWV, RMA, RMB, RMC, VTG, XTE, ZDA
  - (Output) DVS, DBT, DPT, MTW*, RMB*, VHW*, TLL* by key operation
  - * External data required.

**ENVIRONMENT**
- Temperature: -15°C to +55°C
- Waterproofing: IP55

**POWER SUPPLY**
- Power Supply: 12-24 VDC, 13W

**EQUIPMENT LIST**
- **Standard**
  1. Display Unit CV-688E/688C (for Chinese)
  2. Installation Materials and Standard Spare Parts
- **Option**
  1. Speed/Temperature Sensor
  2. Connector Kit for Connection of Speed & Temperature Sensor or Temperature Sensor
  3. NMEA+Power Cable

**Transducers (Specify when ordering)**
- 520-5PSD (Plastic thru-hull), 520-5MSD (Bronze thru-hull), 525STID-MSD (Bronze thru-hull with a speed/temp sensor), 525STID-PWD (Plastic transom with a speed/temp sensor)

**DISPLAY UNIT**
- Bracket Mount 1.3 kg 2.9 lb

**INTERCONNECTION DIAGRAM**

![Diagram showing interconnection between GPS Navigator, GPS Plotter, and Transducer]

NMEA0183

12/24 VDC Transducer Option

**SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE**

PLEASE READ MANUAL BEFORE USING THE UNIT

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