

# SPECIFICATIONS OF FCV-585

# FURUNO

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## GENERAL

Frequency 50 and 200 kHz  
 Output Power 600 W/1 kW\* via transducer selection  
 \*Matching Box MB-1100 required with some transducers

## DISPLAY

Display Type 8.4" color LCD  
 Effective Display Area 128.2 (W) x 170.9 (H) mm  
 Pixel Number 480 x 640  
 Display Mode Single frequency (high/low freq.), Dual-frequency, Zoom, Nav data-1/2, A-scope, Marker zoom, Bottom zoom, Bottom-lock  
 Basic Range\* 2-800 m  
 \*m, ft, fa, p/b is selectable in the menu  
 Range Phasing up to 800 m  
 Expansion Range 2-800 m (Bottom and Marker zoom)  
 3-10 m (Bottom-lock expansion)  
 Picture Advance Speed 8 steps: stop, 1/16, 1/8, 1/4, 1/2, 1/1, 2/1, 4/1  
 Pulselength & PRR 0.1-3 ms, Max 3,000 pulse/min  
 Interface RMA, RMB, RMC, BWC, GLL, GGA, MWV, (IEC61162, NMEA0183)  
 VTG, VHW, MTW, XTE, MDA, HDT, HDG  
 RMA\*, RMB\*, RMC\*, BWC\*, GLL\*, GGA\*, MWV\*, VTG\*, VHW\*, MTW\*, XTE\*, MDA\*, HDT\*, DBT, DPT, MTW\*\*, VHW\*\*, TLL\*, HDG\*  
 \*: GPS sensor required;  
 \*\*: Speed/temperature sensor is required.

## ENVIRONMENT

Temperature -15°C to +50°C  
 Waterproofing IEC IP55

## POWER SUPPLY

12-24 VDC: 1.0-0.5 A

## EQUIPMENT LIST

### Standard

1. Display Unit FCV-585 1 unit
2. Installation Materials and Standard Spare Parts 1 set

### Option

1. Speed/Temperature Sensor  
 ST-02MSB (Thru-hull, bronze), ST-02PSB (Thru-hull, plastic),  
 T-02MTB (Transom, bronze), T-02MSB (Thru-hull, bronze),  
 T-03MSB (Thru-hull, bronze)
2. Connector Kit for Connection of Speed & Temperature Sensor or Temperature Sensor
3. Matching Box MB-1100 (For 1kW output with some transducers)

### Transducers (Specify when ordering)

#### 600 W

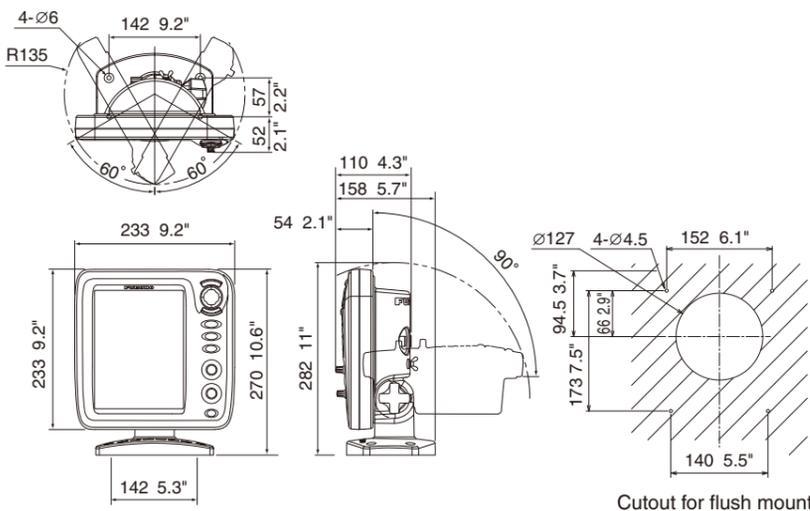
- 520-5PSD (Plastic thru-hull), 520-5MSD (Bronze thru-hull), 525-5PWD (Plastic transom), 525ST-MSD (Bronze thru-hull with a speed/temp sensor), 525ST-PWD (Plastic transom with a speed/temp sensor)

#### 1 kW

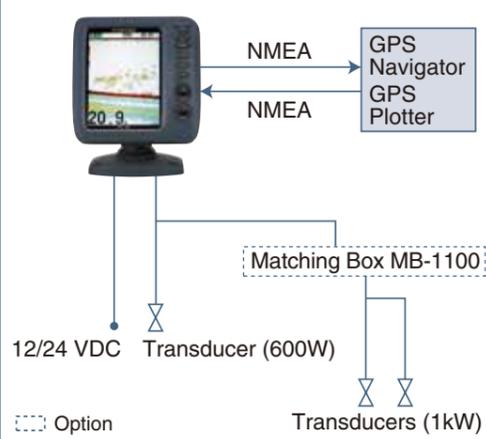
- 50 kHz: 50B-6, 50B-6B 200kHz: 200B-5S, 50/200 kHz dual-frequency: 50/200-1T

## DISPLAY UNIT

Bracket Mount 2.2 kg 4.9 lb  
 Flush Mount 1.5 kg 3.3 lb



## INTERCONNECTION DIAGRAM



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# FCV-585

## ECHO SOUNDER

High definition echo presentation  
 utilizing FURUNO's digital filter  
 technology on an 8.4"  
 sunlight viewable bonded  
 color LCD



**FURUNO ELECTRIC CO., LTD.**  
 Nishinomiya, Hyogo, Japan  
 www.furuno.co.jp  
**FURUNO U.S.A. INC.**  
 Camas, Washington, U.S.A.  
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www.furuno.com



# FCV-585

## ECHO SOUNDER

The FURUNO FCV-585 is a high performance, dual-frequency color digital echo sounder (50 and 200 kHz) with high transmission output power of 600 Watts/1 kW\* through transducer selection. It has been designed with a variety of fishing and recreational boats in mind. FURUNO's 50+ years of proven marine electronics technology is incorporated into this compact, waterproof unit.

\* Matching Box MB-1100 is required for 1 kW output power with some transducers.

One of the main features of the FCV-585 is the revolutionary digital filter. Our enhanced DSP (Digital Signal Processing) technology helps adjust gain, STC and output power as well as suppresses main bang (echoes just below transducer). The utilization of the DSP technology facilitates outstanding detection both in shallow and deep water. Shallow water detection is enhanced by its fast transmission rate of 3,000 times per minute in a water depth of 5 meters. This helps you identify bait pods and individual fish targets right under the boat.

There are four basic operation modes: Single-Frequency (50 or 200 kHz), Dual-Frequency, Zoom (Marker Zoom/Bottom Zoom/Bottom-Lock) and NAV data. For simplified operation, an Auto mode is also provided. There are two types of Auto Modes available: Cruising and Fishing. Each mode fully utilizes the DSP technology to obtain an echo image for each purpose.

When interfaced with a GPS sensor and speed sensor, the own ship's position and own ship's speed can be confirmed on the screen. Target Lat/Lon (TLL) of favorite fishing spots can be transferred to the interfaced GPS plotter for use on your next fishing trip.

The FCV-585 employs an 8.4" color LCD (TFT) screen for vivid display and a wide viewing angle. Its new unit design concept allows the display unit to swivel around when desktop mounted. Also, a quick release bracket makes flush mount installation quick and simple.

- ▶ Enhanced DSP (Digital Signal Processing) filter delivers comprehensive detection in both shallow and deep water
- ▶ The main bang (echo just below the transducer) is suppressed to less than 20 cm so that the fish echoes below the transducer can easily be observed
- ▶ Two types of Auto Modes available: Cruising and Fishing
- ▶ Fast pulse transmission rate (3,000 times/min) to achieve outstanding shallow water echo presentation
- ▶ Dual frequency 50/200 kHz
- ▶ High output power of 600 W/1 kW\* via transducer selection
- ▶ TLL output for an interfaced GPS plotter display
- ▶ 10.4" bonded color LCD provides clear view in any weather conditions
- ▶ Echo presentation in 8/16/64 color gradation
- ▶ Customized NAV data display when interfaced with appropriate sensors
- ▶ New cosmetic design allows the display unit to swivel around when table-top mounted
- ▶ Easy to flush mount
- ▶ Easy to operate with two rotary knobs for gain control and mode selection
- ▶ Audio-visual alarms for water depth, fish echoes and water temperature

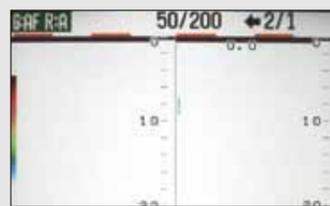


### Digital Filter Technology

The FCV-585 features a digital filter, which delivers automatic gain control to present precise and crystal clear echo images. However, even the best digital filter won't help unless you start with a solid base, such as FURUNO's renowned fishfinder technology. The benefits provided by the FCV-585 include:

### Exceptional Shallow Water Detection with surface clutter suppression

Surface clutter, mainly caused by a propeller of the craft, can be greatly suppressed by the digital filter, which facilitates exceptional shallow water detection. This enables you to spot fish targets close to the surface.



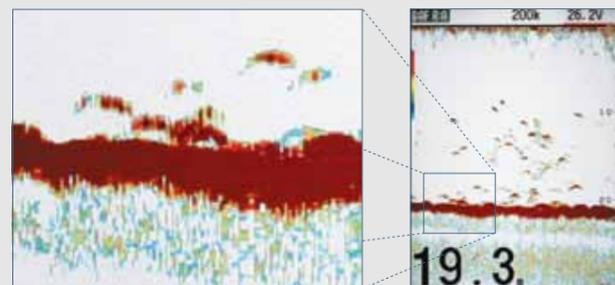
FCV-585



Conventional fish finder

### Detailed target presentation

The digital filter of the FCV-585 optimizes gain to obtain highly defined images of underwater conditions. The FCV-585 clearly shows fish targets close to the seabed. The digital filter also eliminates noise to deliver sharp and detailed echo presentation, achieving detection of fishing reefs and individual fish with absolute clarity.

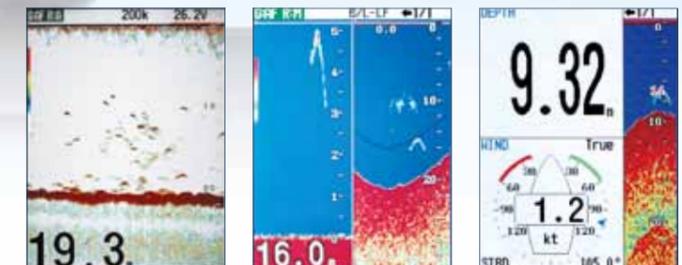


### Swivel mounting bracket to adjust the angle of the display unit

The gimbal mount allows the display unit to swivel around when desktop mounted. You can adjust the angle of the display so that the optimum viewing angle can be easily achieved.



### Operation Modes



Single

Bottom lock Zoom

Nav mode

### Flush-mounting made simple!

When flush-mounting, all that is needed is a 5" hole-saw to make the cut-out for installation.

