

10" color CRT with multi-mode selection

COLOR VIDEO SOUNDER Model FCV-293

- Choice of 50 or 200 kHz Transducer
- Two Asian language options are available in Chinese or Thai for operation panel (Please specify when ordering)
- Echo presentation in 16 colors or highcontrast amber for nighttime operation
- Versatile display modes: Marker Zoom, Bottom Zoom, Bottom Discrimination, Bottom-Lock and A-Scope
- Audible alarms for preset water depth and fish echoes
- Automatic control of range for hands-off operation







FURUNO ELECTRIC CO., LTD.

Catalogue No. E-393a

Straightforward design and professional quality ensure effective fishing operation



The FURUNO FCV-293 is a cost-effective color video sounder for a variety of fishing vessels. The echoes are presented on the 10-inch screen in 8 or 16 colors as selected on the menu. One of the colors can be displayed in white to emphasize the specific echo level. A monochrome amber presentation is also available for nighttime operation.

There are a variety of display modes including Normal, Marker Zoom, Bottom-Lock, Bottom Discrimination, Bottom Zoom and A-scope. The Bottom Discrimination mode enhances the bottom echo tails to easily discriminate between soft, rocky or sandy bottom by change in color. Selection of sounding range, sensitivity, phasing, display mode and other settings are simple and direct with keys or rotary controls at the right of the screen. The language for the control names on the operation panel is selected from English, Chinese or Thai (specify when ordering).

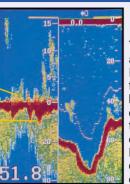
The FCV-293 offers hands-off operation. When the operator selects the Auto mode, the video sounder automatically gets a right range scale and tracks the seabed whether the depth changes in the course of sailing.

MARKER ZOOM

BOTTOM DISCRIMINATION

Bottom fish

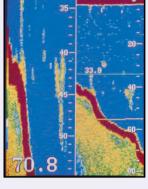
Longer Bottom Tails (area of hard bottom)



Selected part of water The zoomed picture appears on the left half of the screen.

The bottom is displayed as a straight line (left half). Echoes immediately below this line will have enhanced bottom tails. Harder bottom creates darker and longer tails. The nature and any changes in bottom hardness can be easily determined by a change in color or tail lengths.

column can freely be set by moving the zoom markers.

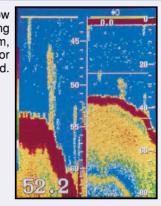


Zoom Markers

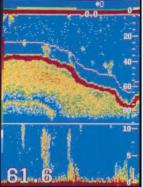
BOTTOM ZOOM



The zoom markers follow the bottom contour showing an expanded view of bottom, whether the bottom is flat or rugged.



Zoom Markers



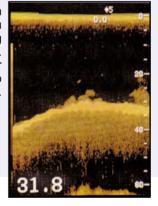
The bottom is displayed as a straight line on the lower part of the screen, regardless of bottom contour. This mode is useful for detection of fish close to or on the bottom.

A-SCOPE



The A-Scope picture on the right 1/3 of the screen shows an instantaneous echo envelope at each ping, clearly showing echo differentials and positional relationship. This is useful for closer observation of target depth.

Background color can be changed in the Menu for optimum viewing in any environment. A monochrome amber presentation is also available.

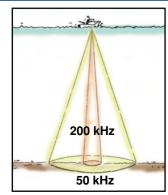


CHANGE OF

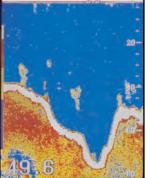
DISPLAY COLOR

ECHO COLOR CHANGE

The difference of sounding between 50 kHz and 200 kHz



One of any colors among the color bar can be replaced with white color to emphasize the specific echo level.



Transducer options are offered in 200 kHz or 50 kHz. The 200 kHz is advantageous to find fish in shallow water or to discriminate fish from water contamination. It is suitable in most echo sounding over the continental shelf. The 50 kHz transducer is recommended for deeper range fishing or detecting if the bottom conditions are soft or hard.

SPECIFICATIONS OF FCV-293

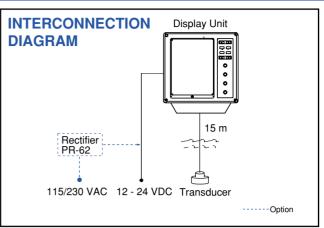
Display	10-inch color CRT, 8 or 16 colors,
	232(H) x 240(V) pixels, 160(W) x 200(H) mm
Display Modes	Normal, Marker Zoom, Bottom-Lock, Bottom Discrimination, Bottom Zoom and A-scope
Frequency	50 or 200 kHz
Beamwidth	50 kHz (50B-6B): 28°
	200 kHz (200B-8B): 5.4°
Basic Range m 5, 10, 2	0, 40, 80, 150, 300, 500
ft 15, 30, 6	0, 120, 200, 400, 1000, 1500
	0, 20, 40, 80, 150, 250 0, 20, 40, 80, 150, 250
•	0, 20, 40, 80, 150, 250 L be selected from 5 to 4,000 m in Menu) [
Zoom Range 10-200 m (set on menu)	
Bottom-Look Ran	
Phased Range	
Pulsolonath and P	depending on selected range Pulse Repetition Rates
Range (m)	5-20 40 80 150 300 500
P/L (ms)	0.1 0.2 0.4 0.7 1.5 2.0
PRR (pulses/min)	750 375 187 110 50 38
Picture Advance Freeze, 1/16, 1/8, 1/4, 1/2, 1/1, 2/1	
Output Power 1 kW or 2* kW rms *for deep sounding POWER SUPPLY	
12 - 24 VDC	
115/230 VAC with optional rectifier PR-62	
ENVIRONMEN	
Display Unit	Temperature: -15°C to +55°C [(IEC 60945)
	Waterproofing: IPX2 (IEC 60529)
EQUIPMENT LIST	
Standard	
1. Display Unit:	FCV-293E (for English panel)
	FCV-293C (for Chinese panel) FCV-293T (for Thai panel) 1 unit
2. Installation Mate	erials and Standard Spare Parts 1 set
Optional	
1. Rectifier PR-62 for 115/230 VAC mains	
2. Flush Mount Kit OP03-90 for display unit	
•••	ecify the frequency and type of transducer)
1 kW:	50B-6 (50 kHz, with 10 m cable) 50B-6B (50 kHz, with 15 m cable)
	50B-9B (50 kHz, with 15 m cable)
2 kW:	200B-5S (200 kHz, with 15 m cable) 50B-12 (50 kHz, with 15 m cable)
2 NVV.	50B-12 (50 kHz, with 15 m cable) 50BL-12** (50 kHz, with 15 m cable)
	"Bolt-Clamped Langevin type (for detection of small fish)

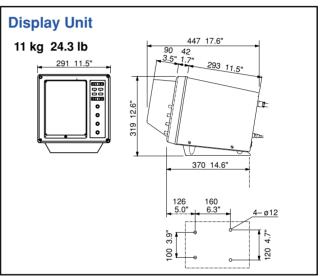
(200 kHz, with 10 m cable)

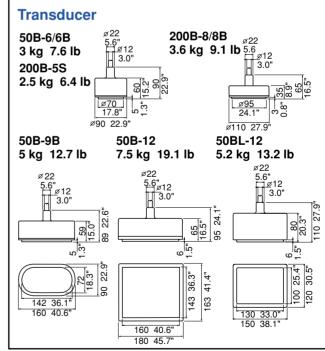
(200 kHz, with 15 m cable)

200B-8

200B-8B







SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

03043Y Printed in Japan

