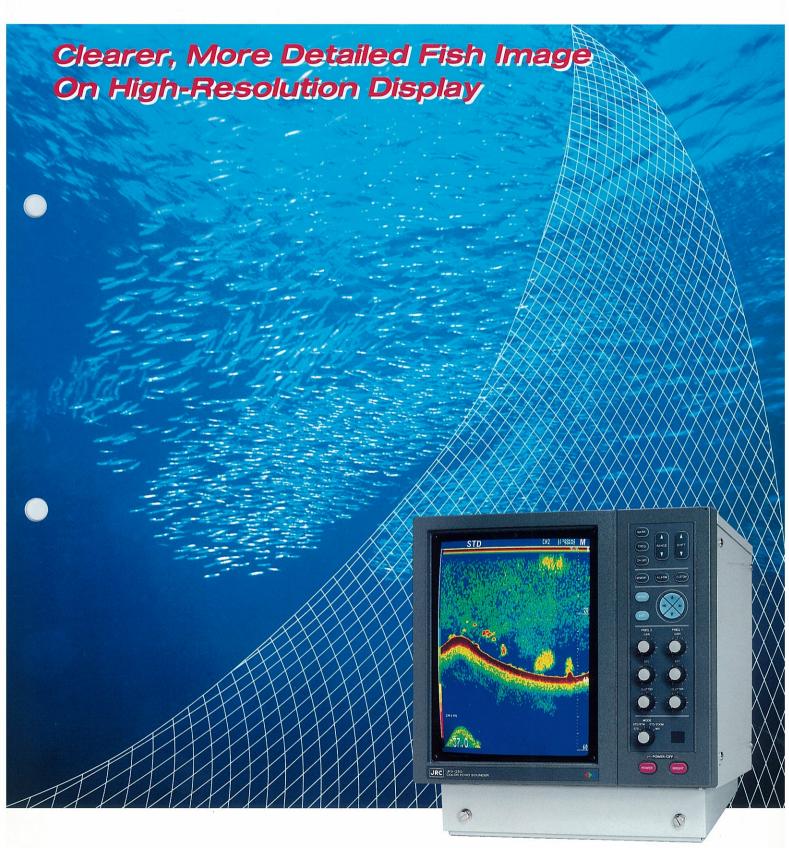
JRC COLOR ECHO SOUNDER

JFV-250

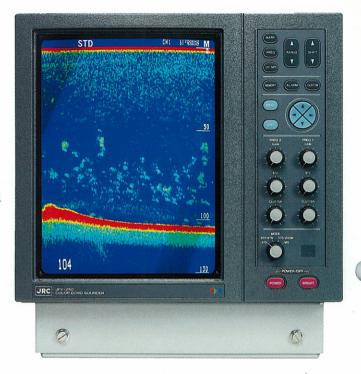


JRC Japan Radio Co., Ltd.

Even Surface and Bottom Fish Distinctly Displayed

The JFV-250 is a 14-inch highresolution color echo sounder using the most up-to-date ultrasonics and microcomputer technology based on JRC's professional experience in fishing electronics.

The newest model of the JFV series features a new transducer, highresolution color display, ease of operation and other advanced functions that are most convenient for fishing operations.



FEATURES

Clear Display

- The 14-inch color display has a higher resolution of 640×480 dots than the conventional models, offering more precise, clearer images with higher definition.
- Color display is selectable from 6 sets of 16 colors, 2 sets of 8 colors, one set of 16 or 8 user-specified colors, and monochrome. Background color is selectable from 4 colors.
- The 16-color display presents fine, precise echo images, enabling fish density presumption. The user color set can be specified to highlight desired echoes depending on the fish types or the fish ground.



- Simplified arrangement of switches and controls on the operating panel.
 The function keys and switches that had beem rarely used has been eliminated.
- · Display modes can easily be changed by switches.
- Additional functions can be selected from menu display and executed by one-touch key-in operation.
- By pushing "CUSTOM" key, the display easily returns to the mode normally used.

Sharp Display of Surface Fish and Bottom Fish

- Even tiny fish or small fish schools in the surface layer or on the sea-bed can be clearly discriminated.
- Tiny fish among planktons in the surface water can be clearly detected and distinctly displayed by the FM pulse beam transmission technique unique to JRC.
- The high power output of 10kW (option) is suited for deep sea sounding.
- A 16-color display with bottom enlargement enables sharp discrimination of bottom fish schools from the sea-bed.

VARIETY OF FUNCTIONS

A-Scope Display

Fish echoes are clearly displayed in 16 colors with echo signal intensity.

Fish Type Definition

The dual-frequency mode is suitable for fish type definition.

Water Temperature Graph (with Alarm)

A water temperature graph can be displayed with a fish echo display on the same screen by using an optional water temperature sensor.

4-Screen Image Memory

Up to 4 pictures can be stored in the internal memory for recording of fish ground spots.

Video Compression

Echo images for up to 4 hours can be displayed in a compressed mode on a single screen.

Ship's Position Display (Option)

The ship's position can be indicated on the screen by connecting an optional GPS sensor.

Wireless Remote Control (Option)

An wireless remote control unit is optionally available.

SPECIFICATIONS

14-inch high-definition color CRT with Display type:

a resolution of 640 × 480 dots

Color display: Selectable from 6 sets of 16 colors, 2

sets of 8 colors, one set of 16 or 8 user-specified colors and mono-

chrome, and 4 background colors

CRT brightness: Variable from push button Standard (full screen) Display modes:

Dual-split (vertical or horizontal)

Partial enlargement (single/dual-

frequency)

Bottom lock enlargement (single/dual

frequency)

Dual frequey mix mode

Temperature graph *1, bottom hardness (BH) graph, water depth graph

A scope-at the right side of display

20 to 45 VDC (24 V/32 V) Power supply:

Echo Sounding Functions

Echo Display range

Manual: Six (6) ranges presettable from key-

board or continuously variable by Up and Down keys in the sounding

ranges:

Standard

10-3000 meters 5- 500 meters

Partial Bottom lock

1- 100 meters

Auto: Automatically set so as to display the sea botton within the range

Shift

Manual: Presettable from push button, 0 to 1500

units

Auto:

Depth unit:

Automatically set so as to display the sea botton within the shift

Metres, fathoms, feet and any other

selectable value unit

Depth marker:

Marker scale with alphanumeric read-

ings at the right end of display

Bottom depth: Cursor:

Numerical indication on display Horizontal-depth (same as VRM) Vertical-time or distance *2

Alarms

Fish:

Adjustable in the normal maximum range +1500 units in threshold level

Water temp.: Adjustable from -5° to $+40^{\circ}$, or by

parameters from push button *1 Image memory: 4 frames of pictures Compressed

Display time selectable from 15 min, 30

min, 1hr, 2 hrs and 4 hrs

Distance/Time mark:

Distance 0.1 nm-steos; time 1-min steps *2

Interference

mode:

rejection:

Adjustable in three steps and off, or by fine adjustment of sounding rate or

frequency

Draft control:

Presettable in 0.1 unit from 0 to 20

units via menu

Scan speed:

Normal 2/1, 1/1, 1/2···1/8 or scans/

sounding synchronized log *3 200/75/50/28kHz, single or dual

Frequencies:

Transmitter power:

Selectable from 1kW,3kW, 5kW(option), 10kW(option).

5kW/10kW needs an high-power

transmitter unit

Other Functions

Note: The CQD-1185 Terminal Board is needed for connection with optional equipment except for GPS and water depth sensors and RGB output.,

Depth data output:

NMEA0183 or JRC format and NDF-167 navigational interface

Net sonde input: Provided

Fish echo signal

RGB output video output:

Up to 2 units connectable Video moniter:

Position, water temp.

input: NMEA0183 format,1CH each

Water temp

interface: Included (for CHG-97)

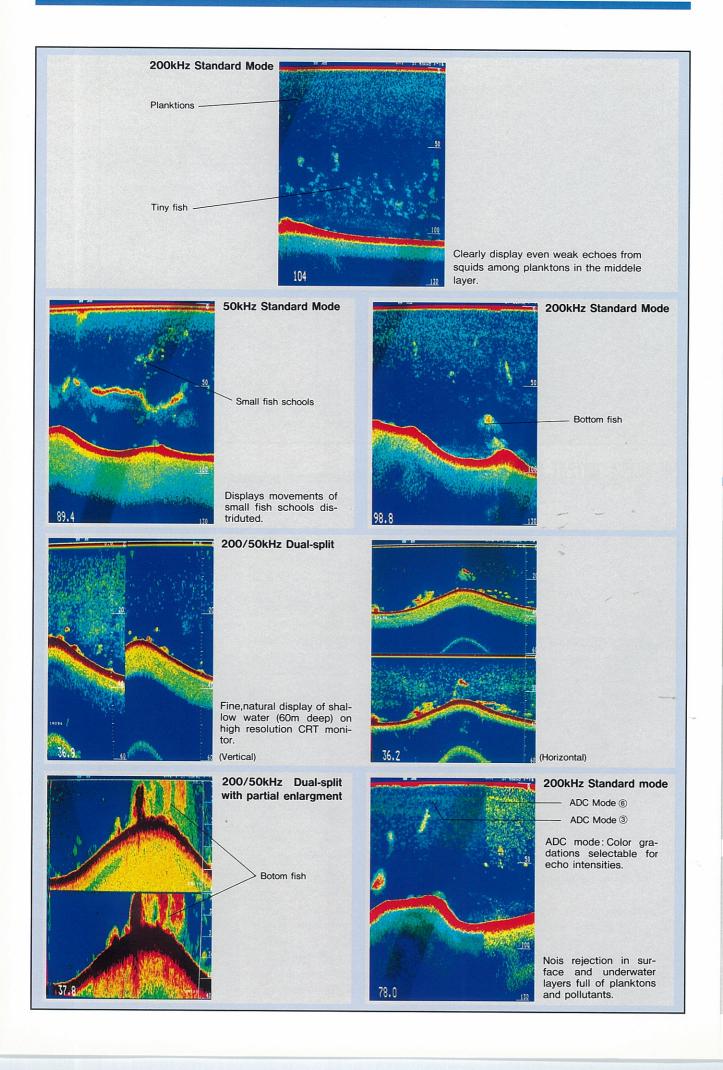
Notes:

*1 With water temp. data input or sensor connected.

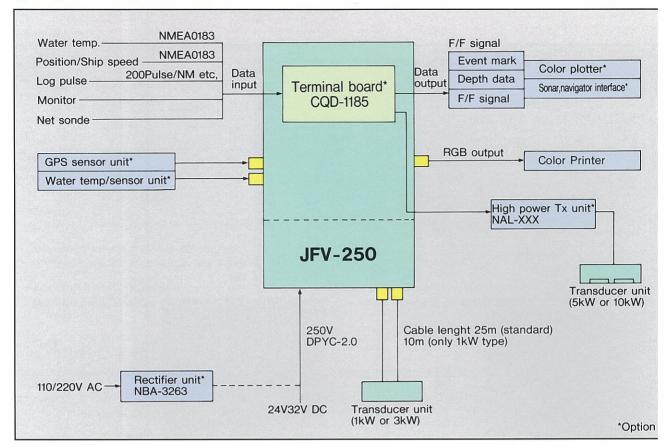
*2 Distance with log or navigator connected.

*3 With log or navigator connected.

DISPLAY EXAMPLES



SYSTEMS DIAGRAM



FREQUENCY/OUTPUT POWER LIST

Output Power	1kW			3kW				5kW			10kW		
Frequency (kHz)	200	75	50	28	200	75	50	28	75	50	28	50	28
Transmitter	Internal					High Power Tx Unit (option)							
Transducer Unit	Single Frequency			Selectable Single or Dual Frequency									

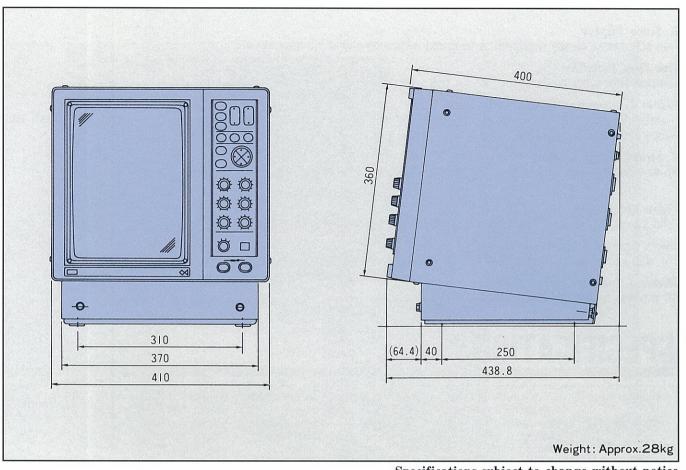
STANDARD COMPONENTS

Item	Model	Q'ty	Remarks		
Echo Sounder	JFV-250	1	With vinyl cover		
Transducer Unit	NKP-00-00	1	: metal fittings marks of frequency and out- put power		
Spare Parts	6ZXBS00167	1 set			
Instruction Manual	6ZPBS02549	1 сору			

OPTION

Item	Model	Remarks		
High Power Tx	NAL-050	5kW		
Unit	NAL-100	10kW		
	NAL-505	5/5kW		
	NAL-510	5/10kW		
	NAL-999	10/10kW		
Terminal Board	CQD-1185	For optional unit (Excl. GP and water temp. sensor)		
Rectifier Unit	NBA-3263 or NBA-3747A	Input: 100/110/220V AC Outout: 24V DC,6A		
Water Temp.Sensor	CHG-97			
GPS Sensor	GPS100			
DGPS Sensor	DGPS200			
Color Printer	NJW-163	A4 size		

DIMENSIONS



Specifications subject to change without notice

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21EM

ISO9001, ISO14001 Certified