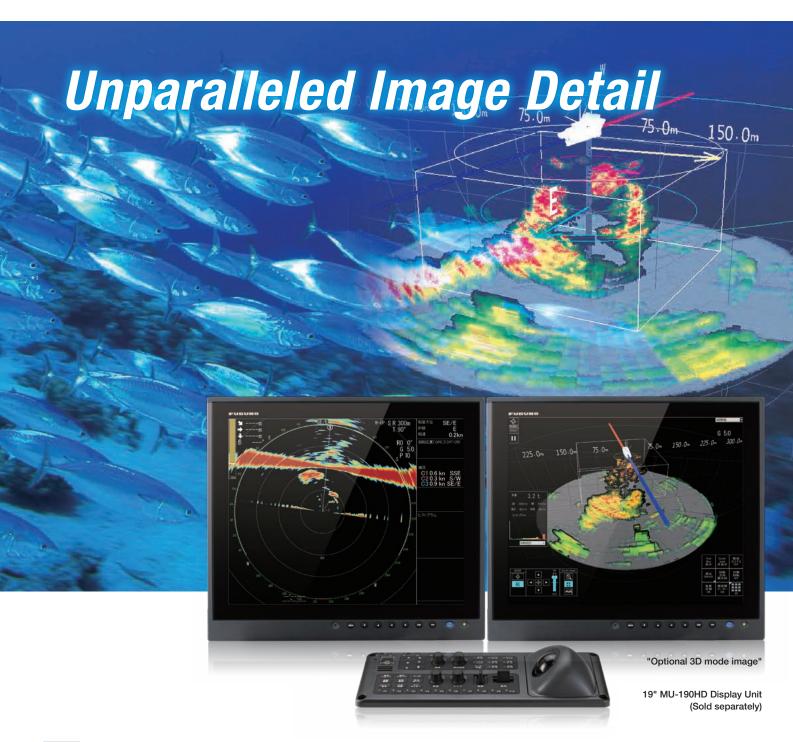
FURUNO

Half-circle Color Scanning Sonar







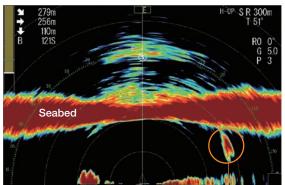




Detailed echoes near the seabed thanks to enhanced detection capabilities

The adoption of innovative signal processing technology dramatically increases the sensitivity of the Sonar and provides clearer and sharper echoes.

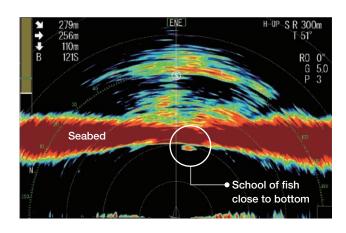
A higher resolution allows us to clearly separate the echoes from the fish and the seabed

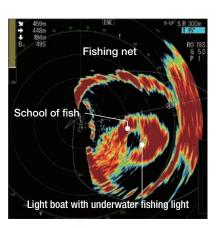


School of Fish

► High frequency (180 kHz) allows clear and easy discernment between fish and seabed, or fishing net and school of fish

The FSV-75 uses high frequency (180 kHz) which can easily detect fish tight on the bottom or nets. This allows you to locate and track fish on the screen with greater accuracy.





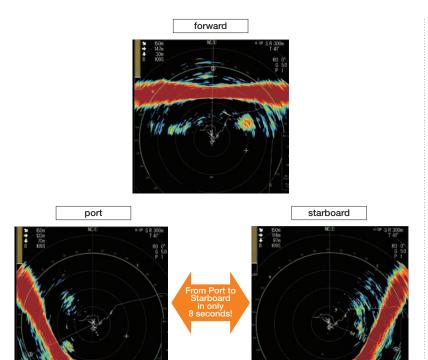
▶ Perfect to search for fish with rapid movement such as skipjack or tuna

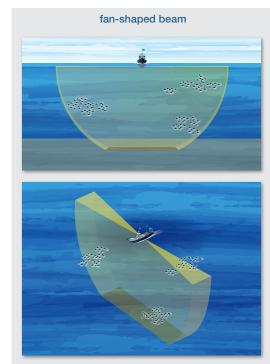
The FSV-75 is particularly useful for fast moving fish such as tuna and skipjack, thanks to a fast transmitting/receiving rate at short range.



Fan-shaped beam, higher scanning speed, wider range, the performance of half-circle Sonar taken to a whole new level

Detect fish that you might otherwise overlook thanks to the combination of 3 technical improvements, such as a unique fan-shaped beam, a greater detection range, and a higher scanning speed.

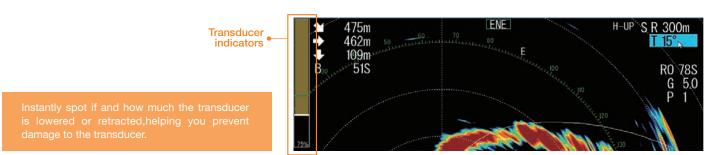




On screen "Retract Transducer" indicator for quick adjustment and damage prevention

In the presence of close marine objects, which could potentially damage the transducer, it is useful to know the degree of retraction for quick adjustment when necessary.

◆By pressing mid protrusion key on the display, it allows the transducer to be only half-retracted.



The underwater world in 3D!

3D mode (optional supply)

New Feature

75.0m 150.0m 225.0m

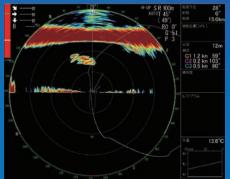
*Requires the purchase of a license key to activate this mode

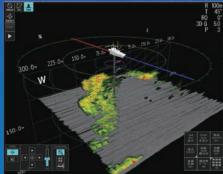
225.0m 150.0m

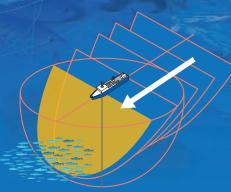
This mode allows you to monitor the location and movement of fish relative to the seabed in 3D, which makes fish detection and net casting operation more efficient.

Forward detection history mode

The forward detection history mode scans the forward area of own ship, and shows the Sonar echoes in 3D format. This mode is useful for estimating the profile of the seabed.







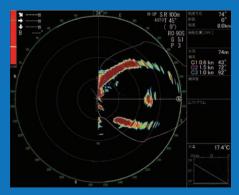
Searching image

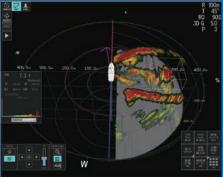
2D display

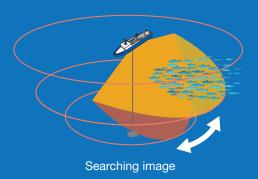
3D display

► Tilt cross-section mode*

The tilt cross-section mode scans the tilt angle within the selected width, and shows the underwater Sonar echoes in the scanning area in 3D format. This mode is useful for seeing the shape of the fishing net in the water.







2D display

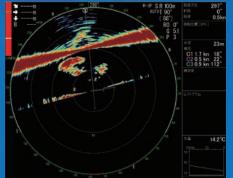
3D display

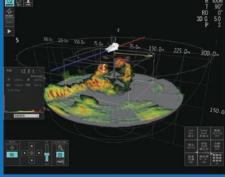
^{*}The tilt is set on Auto-Tilt

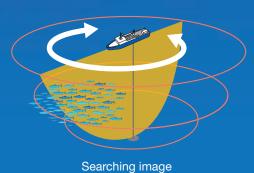


Sweep cross-section mode*

The sweep cross-section mode rotates the detection beam in a sweep (revolution) direction with the tilt angle fixed to "90 degrees", and shows the underwater Sonar echoes around own ship in 3D format. This mode is useful for finding the position of a school of fish.







2D display

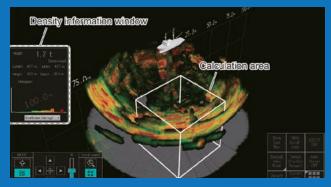
3D display

*Automatic sweep, Tilt angle fixed to 90°

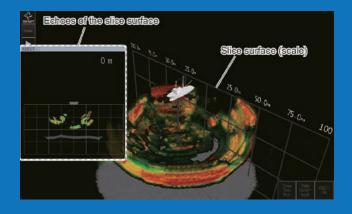
Other functions available with the 3D mode

Density calculation function

This function displays a virtual "basket" measuring the approximate volume of fish In the selected area. The amount of fish expected in the measurement zone is displayed in the "density information window". Knowing in real time the fish volume in the target area allows the fisherman to determine the best time to start fishing operation.



The density information window shows fish density in the calculation area.



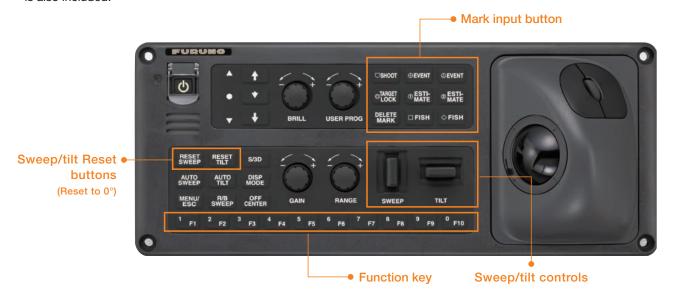
Cross-sectional slice function

The cross-sectional slice function allows you to see echoes of the cross-section of a 3D model sliced in a vertical and horizontal plane.

Quick and secure operation

Thanks to a control panel specially designed for Half-circle Sonars, all operations allowing fish search and tracking, such as adjusting the Sonar rotation parameters or tilting, can be performed simply and efficiently.

This control panel comes with 10 of the most popular function keys among the current FSV Sonar series, and it is possible to register your favorite functions from 40 available functions. A convenient one-click delete button is also included.

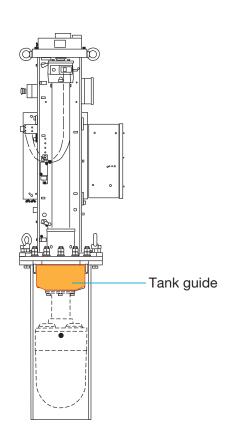


Tank guide for a robust Hull Unit

Thanks to a "Tank Guide" mechanism, the transducer is protected from vibrations and impact, which considerably improves the stability and durability of the Sonar.

► Shorter lowering/retracting time

The transducer can be deployed and retracted in 11 seconds (1100 mm), it's half the time of current Sonar models.



Half-circle Color Scanning Sonar

F5V-75

Control Unit

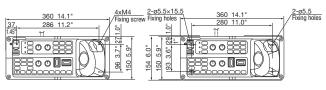
FSV-7501 Table top mount 1.8 kg 4.0 lb

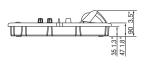
FSV-7501 Table top mount (bracket type) 2.9 kg 6.4 lb

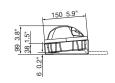
Hull Unit

FSV-753 (800 Stroke) 340 kg 749 lb

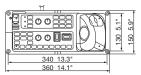
FSV-754 (1100 Stroke) 360 kg 794 lb

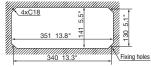


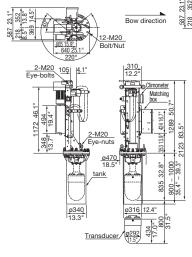


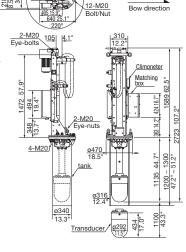


FSV-7501 Flush mount 1.8 kg 4.0 lb

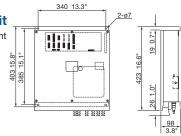




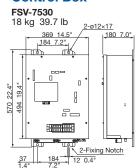




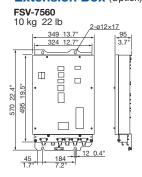
Processor Unit FSV-7503 Floor mount 8 kg 17.6 lb



Control Box

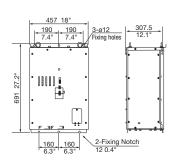


Extension Box (Option)

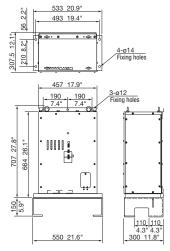


Transceiver Unit

FSV-751 Bulkhead mount 51 kg 112 lb



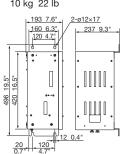
FSV-751 Floor mount 55 kg 121 lb



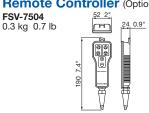
Matching Box

FSV-7550 Bulkhead mount 10 kg 22 lb 208 8.1 160 6.3" 120 4.7" 226 8.9" 496 19.5 424 16.7" 2-Fixing Notch 12 0.4"

FSV-7550 Side mount 10 kg 22 lb



Remote Controller (Option)



SPECIFICATIONS OF HALF-CIRCLE COLOR SCANNING SONAR **FSV-75**

1. GENERAL

Scanning method Full digital beam forming 180 kHz Frequency

0.5 to 40 ms

Pulse length Range

Basic range(m)	Range (m)		Basic	Range (m)	
	Off-center 'OFF'	Off-center 'ON'	range(m)	Off-center 'OFF'	Off-center 'ON'
50	0-50	0-90	800	0-800	0-1280
100	0-100	0-160	900	0-900	0-1440
150	0-150	0-240	1000	0-1000	0-1600
200	0-200	0-320	1100	0-1100	0-1760
300	0-300	0-480	1200	0-1200	0-1920
400	0-400	0-640	1400	0-1400	0-2000
500	0-500	0-800	1600	0-1600	0-2000
600	0-600	0-960	2000	0-2000	0-2000
700	0-700	0-1120			

Audio search

Frequency: 1 kHz, Output 10 W (optional speaker required)

2. PROCESSOR UNIT

Orientation Head-up, North-up* and Course up* (*: sensor required)

Presentation mode

Common Slant, Vertical combination scan, Echo sounder combination. Vertical and echo sounder combination FSV-75-3D only 3D single, 3D combination, 3D sounder combination

(for dual-display)

Own ship, Bow line, Bearing/Distance, Event, Fish school, Marks

EBL, Tracking, Current, Sonde

Scan (Bearing/Distance), Cursor (Distance/Depth/Bearing), Information

Event, Fish school (Position/Bearing), Own ship's location, Speed/Bearing, Water temperature, Wind speed/bearing

Interference rejecter, Afterglow, Noise limiter, Delete color, Automatic target tracking, Auto-retraction, Fish school

alarm

Resolution 1280 x 1024 (SXGA)

Picture color 32 colors (sonar pictures), 6 colors (marks)

3. HULL UNIT

Features

800 mm or 1100 mm Hull Unit stroke

Raise/lower time 8 s (800 mm stroke), 11 s (1100 mm stroke) Tx beam width Horizontal: 180°, Vertical: 6° (-3 dB at 180 kHz) Horizontal: 6°, Vertical: 6° (-3 dB at 180 kHz) Rx beam width

-175° to +175° Scanning angle 0° to 90° (downward) Elevation angle

Ship's speed allowance 18 kn (15 kn for raise/lower operation)

4. INTERFACE

Number of port

Video output 2 ch, HDMI, SXGA NMEA0183 5 ch. V1.5/2.0/3.0/4.0/4.1

1 ch, current loop or contact closure External KP

(Input: 5-15 V, Output: 12 V) 1 ch, 10 W, 4 ohms, monaural Voice output

Gyrocompass 1 ch, AD-10

1 ch, VI-1100A analog Echo sounder input Contact closure 1 ch. for external switch USB USB2.0: 2 ch, USB3.0: 2 ch LAN 2 ch, Ethernet, 1000Base-T

Data sentences

CUR. DBS. DBT. DPT. GGA. GLL. GNS. HDG. Input HDM, HDT, MDA, MTW, MWV, RMC, THS,

VBW*1, VDR, VHW, VTG, VWR, VWT, ZDA

Output TLL

*1: fore-aft/port-stbd speed data required

Output proprietary sentence

PFEC evt, fkv, fmg, fvc, pidat, sht, tfm, tlm, tqm

5. POWER SUPPLY

Processor unit

100/110/115/220/230 VAC, 2.5 A max., Transceiver unit

1 phase, 50-60 Hz 12-24 VDC: 4.0-2.0 A

Hull unit 200-220 VAC, 4 A max., 3 phase, 50/60 Hz

Rectifier

(RU-1746B-2, option) 100/110/115/220/230 VAC, 1 phase, 50/60 Hz

6. ENVIRONMENTAL CONDITIONS

Ambient temperature

Processor unit -15°C to +55°C -5°C to +35°C Transducer Transceiver unit 0°C to +50°C Matching box 0°C to +50°C Hull unit 0°C to +50°C Control unit -15°C to +55°C Relative humidity 93% or less at +40°C

Degree of protection

IPX8 Transducer

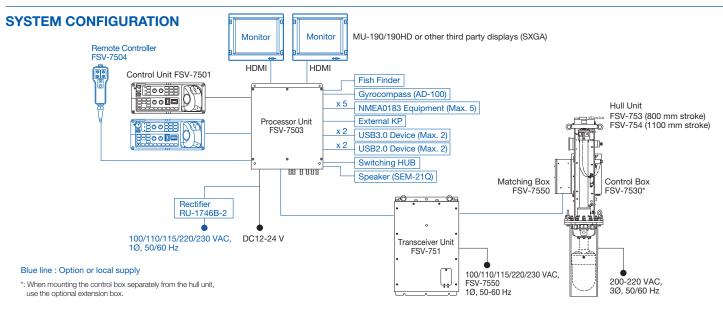
Control unit IP22 (panel), IP20 (chassis)

Processor unit IP22 Transceiver unit IP22 IP22 Matching box Hull unit IPX2

IEC 60945 Ed.4 Vibration

7. UNIT COLOR

Processor unit N2.5 Transceiver unit N2.5 Control unit N2 5 2.5G7/2 Hull unit



Beware of similar products

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