

FURUNO

Full-Circle Color Scanning Sonar

Model

FSV-255 MARK-2



Photo: 19" Marine Display MU Series Monitor
(Customer Supply)

GENERAL

Scanning method: Full digital beam forming
Frequency: 20 kHz
Range: 60, 100, 150, 200, 300, 400, 500, 600, 800, 1000, 1200, 1600, 2000, 2500, 3000, 3500, 4000, 5000, 6000, 7000, 8000, 9000, 10000m
Audio search: 30°, 60°, 90°, 180°, 330° (selectable)
Audio output: Audio terminal
DISPLAY UNIT (Customer Supply)
Screen resolution: SXGA(1280x1024), UXGA(1600x1200), WUXGA(1920x1200)
Picture color: 32 colors (sonar picture), 6 colors (marks)
Orientation: Head-up, North-up*, Course-up* and True motion*
 *External sensor required.
Presentation modes: Horizontal, Horizontal combination, Vertical 1 combination, Vertical 2 combination
Features: Custom mode, Interference rejecter, After-glow, Noise limiter, Signal level, Auto-tilt, Automatic target tracking (target lock), Fish alarm, AGC, Reverberation suppression, Noise suppression, Transducer stop location control, Over-voltage warning, Unretracted transducer warning

TRANSCIVER UNIT

Transmitter: PDM half-bridge
Receiving method: Straight amplifier, full digital beam forming
H-mode beam-width: TX: 360° x 7°, RX: 12° x 10° (-3 dB full width)
 TX: 360° x 10°, RX: 16° x 14° (-6 dB full width)
V-mode beam-width: TX: 360° x 29°, RX: 12° x 10° (-3 dB full width)
 TX: 360° x 47°, RX: 18° x 13° (-6 dB full width)
Tilt angle: -5° to 60° (downward)
Vertical search range: 0° to 60° (downward)

HULL UNIT

Model name	FSV-253-MK2	FSV-254-MK2
Stroke	1200 mm	1600 mm
Raise/Lower time (Full)	12 sec.	16 sec.

Projection of transducer	Stable	Raise/lower operation
1100 or less	20.0 kn	14.5 kn
1100 to 1300 mm	18.0 kn	13.5 kn
Over 1300 mm	16.0 kn	12.0 kn

Ship's Speed allowance

INTERFACE

(1)Ports
 NMEA0183: 5 Ports (Ver1.5/2.0/3.0/4.0/4.1)
 Video output: 2 Ports, HDMI, SXGA
 External KP: 1 Port, current loop or contact signal (input: 5-15V, output: 12V)
 USB: 4 Ports (USB2.0: 2) (USB3.0: 2)

(2) I/O sentences

Input: CUR, DBS, DBT, DPT, GGA, GLL, GNS, HDG, HDM, HDT, MDA, MTW, MWV, RMC, VBW*1, VDR, VHW, VTG, VWR, WWT, ZDA
 *1 Fore-aft and port-stbd speeds required.

Output: TLL

(3) Output proprietary sentences

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

POWER SUPPLY

Processor unit: 12-24 VDC:4.0-2.0 A
Power supply unit: 100/110/115/220/230 VAC: 14 A max, 1 phase, 50/60 Hz
 Output for transceiver unit: 200 VAC, 1 phase, 50/60 Hz

Raise/lower control box:

200 - 220 VAC:16 A max, 3 Phase, 50/60 Hz

Rectifier (option):

100/110/115/220/230 VAC, 1 Phase, 50/60 Hz

ENVIRONMENTAL CONDITIONS

Ambient temperature: Processor Control Unit: -15 °C to +55 °C
 Transducer: -5 °C to +35 °C
 Others: 0 °C to +50 °C
 Relative humidity: 93 % max at +40 °C
Degree of protection: Control Unit: IPX2 (panel), IPX0 (chassis)
 Processor/Tranceiver Unit: IPX2
 Remote control Unit: IPX4
 Power Supply Unit, Junction Box: IPX2
 Hull Unit: IPX2
 Transducer: IPX8
Vibration: IEC60945 Ed.4

EQUIPMENT LIST

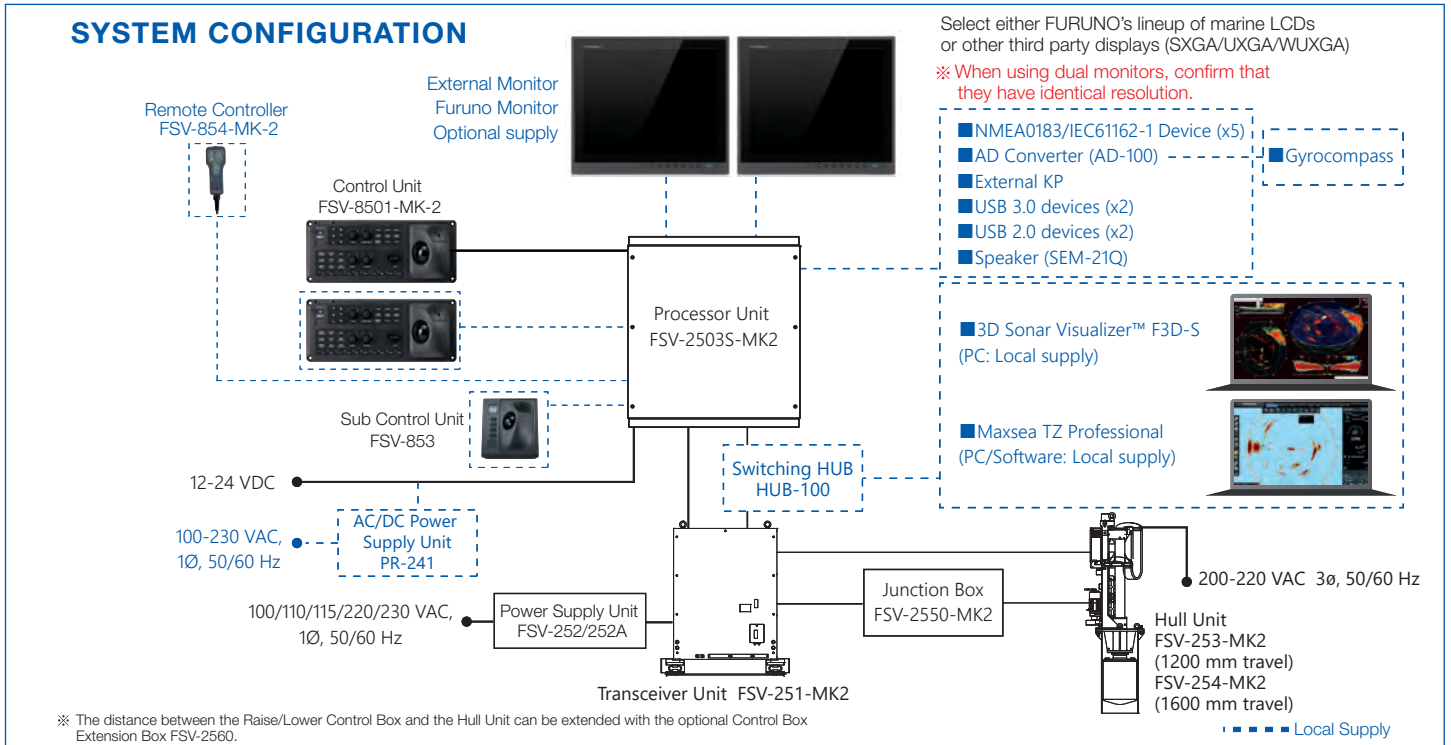
Standard

- Control Unit FSV-8501-MK-2
- Junction Box FSV-2550-MK2
- Power Supply Unit FSV-252/252A
- Hull Unit FSV-253-MK2
- Processor Unit FSV-2503-MK2
- Transceiver Unit FSV-251-MK2
- Installation Materials
- Spare Parts

Option

- Control Unit
- Sub Control Unit FSV-853
- Rectifier
- Remote Control
- Retraction Tank
- Attachement Kit
- Attachement Flange
- Fixing Materials
- Flush Mount Kit
- Control Box Extension Box
- 8 Core Cable
- Cables
- Installation Materials (LAN cable10/20/30/50/100 m)
- Junction Box

FSV-25S MARK-2 falls under dual-use control list. Export License may be required when exported or installed on a foreign flagged ship.



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