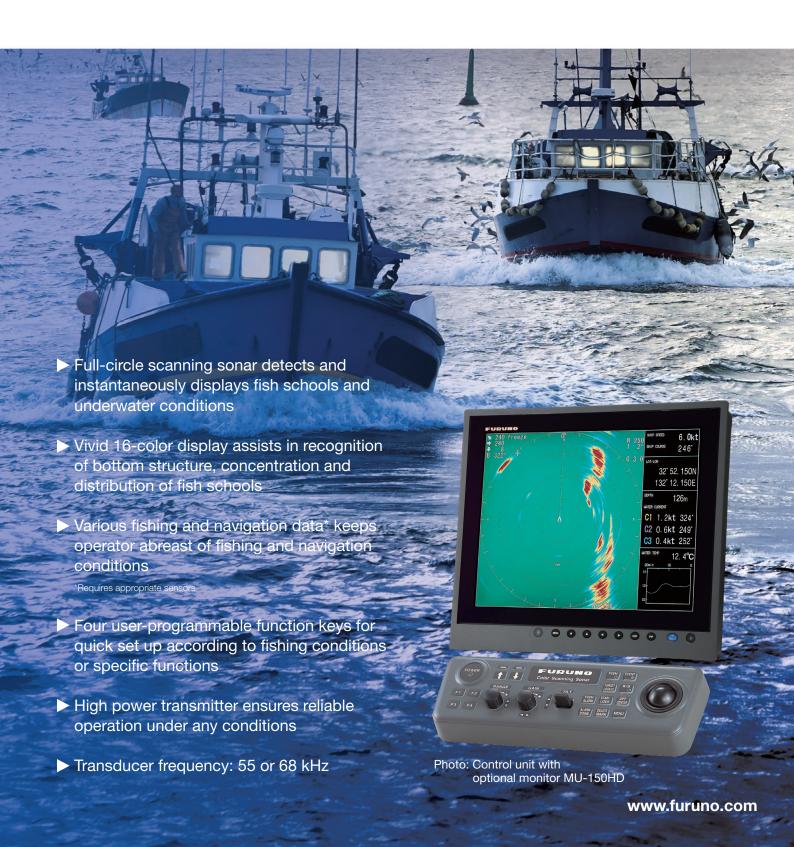
FURUN

FULL-CIRCLE COLOR SCANNING SONAR



Model C5H-5L MARK-2



High power transmitter for long range fish detection and determining changing seabed conditions

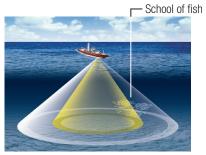
The CSH-5L MARK-2 is the full-circle scanning sonar that rapidly detects and displays individual fish, schools of fish and changing underwater conditions. Fish distribution and seabed conditions are shown in 16 colors, 360 degrees around your vessel.

The CSH-5L MARK-2 is a middle frequency sonar (55/68 kHz), which makes it ideal for searching for distant fish schools all around vessel. With automatic tilt scanning as a standard feature, the CSH-5L MARK-2 is suitable for both midwater trawlers and purse seiners.

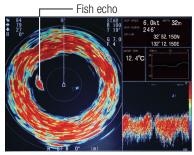
The CSH-5L MARK-2 is provided in a BlackBox configuration for space saving and flexible installation. It consists of a compact hull unit, transceiver unit and processor unit. A variety of monitors are available to suit your installation and operational requirements. FURUNO's MU-series displays are specially designed to meet the requirements of marine professionals around the world.

For a remote station, a second display and remote control can be simply plugged into the processor unit.





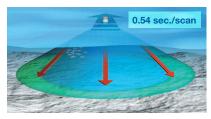
Detection image of scanning sonal



Fish echo displayed on CSH-5L MARK-2

The transducer of a scanning sonar consists of many elements to transmit the echo in all directions simultaneously without rotating the transducer. The echo is redrawn on the display instantaneously according to the latest feedback from the transducer. Because this sonar scans quickly, it greatly improves the fishing operation, especially when searching for/following fast swimming fish.

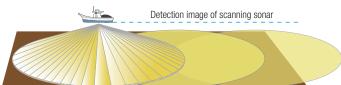
▶ Extremely Quick Scanning Speed



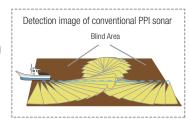
The CSH-5L MARK-2 completes a scan within 0.54 seconds/scan while the conventional PPI sonar" takes 32 seconds to train full circle under the same range/conditions". About 60 times more information is provided compared to a PPI sonar. Fast scanning lessens the chance of missing a small change in underwater conditions. This is especially helpful when range and tilt require frequent adjustment while fishing, offering no frustration on redrawing time.

- *1 CH-250 PPI sonar, training at 6° steps
- *2 Based on 400 m range in combination display mode.

► No Blind Area

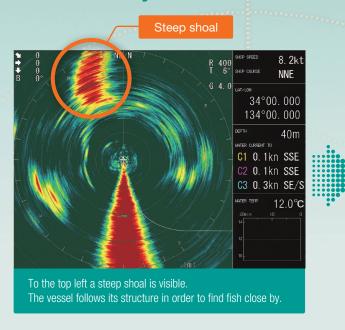


Scanning Sonar shows the actual situation 360 degrees around the vessel, and gives all the necessary information as needed. No more blind areas to consider, allowing the operator to concentrate on the tilt, range, fishing area, etc.





With the CSH-5L MARK-2 you can confidently fish in shallow areas and increase your catch.



| NEN | R 400 | SHIP SPEED | 8. Okt | NNE | SHIP SPEED | SHIP SPEED | 8. Okt | NNE | SHIP SPEED | SHIP SPEED | 8. Okt | NNE | SHIP SPEED | SHIP

Schools of round herring

Schools of round herring close to the shoal can be seen here. The vessel has turned on its lights to attract the fish.

Easy-to-Use Controls

The control unit of CSH-5L MARK-2 combines ergonomics and functions in a user-friendly manner. All controls quickly respond to the operator's command and the associated reaction can be seen on the screen immediately. Four user-defined functions can be assigned to Function keys (F1 to F4), providing for rapid setup and operation.





The optional remote controller provides armchair control of the tilt, range and gain.

Model CSH-SL MARK-2

SPECIFICATIONS

1.PROCESSOR UNIT

Display Mode Single scan, Echo sounder combination* (single

scan and echo sounder), Audio combination

(single scan and audio pictures) *Echo sounder/Fish finder required

Colors Scan/echo: 16 colors, mark: 1 color Mark Own ship's track, Heading line, Direction/ distance, Fish school, Event, Target lock English, Japanese, Spanish, Danish, Dutch, Menu Language

French, Italian, Norwegian, Thai, Vietnamese,

Burmese, Indonesian

2.TRANSCEIVER UNIT

Sonar Frequency 55 or 68 kHz

Range Scales 50, 85, 100, 150, 200, 250, 300, 350, 400, 450,

500, 600, 800, 1000, 1200, 1600 m Pulselength 0.5 to 20 ms (depending on range scales)

Ship Speed 18 kn max (raise/lower operation up to 16 kn) Manual control: 0° to 55° in 1° steps Tilt

Automatic tilt scan: 4° to 52°

Sector: 20°, 40°, 80° and 120° selectable Audio Search

Audio Output: 2 W, Frequency: 800 Hz

3.INTERFACE

NMEA 0183 Ver2.0/2.2 Input Data

RMC, VHW, VTG, HDG, HDM, HDT, DPT, DBT,

DBS. CUR. VDR. GLC. GTD. MTW. RMA

Log, E/S, KP Speed log pulse (contact signal): 200/400 pulse/NM

Sonde, E/S signal: VI-1100 A applicable External KP: Current loop, 0 to 12 V

Output Data NMEA 0183 Ver1.5/2.0/2.2

TII

Video Signal Output

Method RGB analog, separated synchronization, XGA (VESA)

Resolution 1024 x 768, 65.0 MHz clock

4.POWER SUPPLY

100/115/200/220/240 VAC, (Standard supply)

50-60 Hz, 0.4 kVA (Raise 1 kVA) 24 VDC (with optional DC-AC inverter)

EQUIPMENT LIST

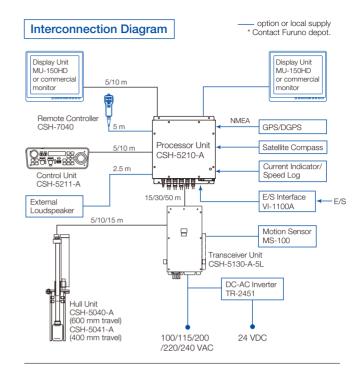
Standard

- 1. Processor Unit CSH-5210-A
- 2. Control Unit CSH-5211-A
- 3. Transceiver Unit CSH-5130-A-5L
- 4. Preamplifier CSH-5020-A
- 5. Hull Unit 400 mm or 600 mm travel
- 6. Installation Materials, Accessories and Spare Parts

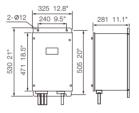
NOTE: Display Unit is not supplied as standard.

Option

- 1. DC-AC Inverter TR-2451
- 2. E/S Interface Unit VI-1100A
- 3. Aluminum Tank OP10-5 *1.0M*
- 4. External Loudspeaker
- 5. Transducer Cable Extension Kit
- 6. Motion Sensor MS-100
- 7. Remote Controller CSH-7040



Transceiver Unit CSH-5130-A-5L

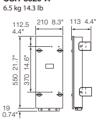


Control Unit

CSH-5211-A



Preamplifier

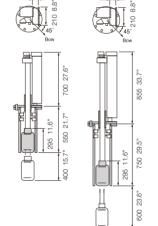


Hull Unit

CSH-5040-A (600 mm travel)

CSH-5041-A (400 mm travel)

85 3.3"



CSH-5020-A

Processor Unit

CSH-5210-A

3.4 kg 7.5 lb 4-ø7 300 11.8 1 23 0.9" 349 103 3 0.1" Verding °

Beware of similar products

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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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> 15053SK Printed in Japan Catalogue No. E-419