

DOPPLER SONAR CURRENT INDICATOR

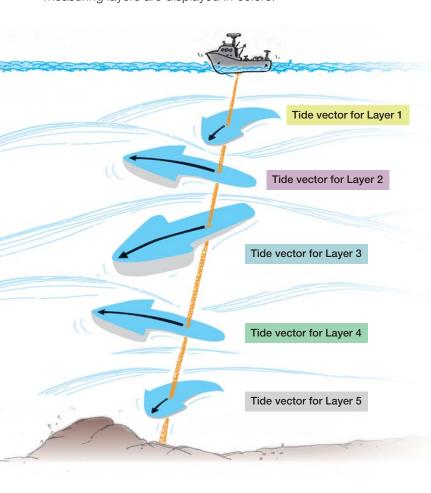
Model [- 58

High-performance current indicator displays accurate speed and current data at five depth layers on a 10.4" color TFT or virtually any VGA monitor utilizing a Black Box system



Obtain highly accurate water current measurements using FURUNO's reliable acoustic technology.

The absolute movements of tide measuring layers are displayed in colors.



The FURUNO CI-68 is a Doppler Sonar Current Indicator designed for various types of fish and hydrographic survey vessels.

The CI-68 displays tide speed and direction at five depth layers and ship's speed on a high definition 10.4" color LCD. Using this information, you can predict net shape and plan when to throw your net.

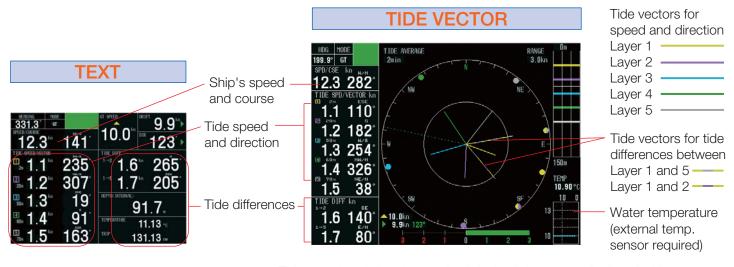
The CI-68 has a triple-beam emission system for providing highly accurate current measurement. This system greatly reduces the effects of the rolling, pitching and heaving motions, providing a continuous display of tide information.

When ground (bottom) reference is not available acoustically in deep water, the CI-68 can provide true tide current information by receiving position and speed data from a GPS navigator and heading data from the satellite (GPS) compass SC-50/110 or gyrocompass. In addition, navigation information, including position, course and ship's track, can also be displayed

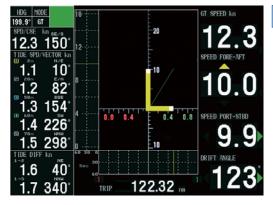
The CI-68 consists of a display unit, processor unit and transducer. The control unit and display unit can be installed separately for flexible installation. A BlackBox configuration (without monitor) is also available. CI-60G users can easily upgrade without drydocking to CI-68 since it uses the same transducer as the CI-60G.

- Compact 3-unit design for ease of installation and maintenance
- High definition 10.4" color LCD
- Blackbox system configuration allows for use of optional LCD monitors
- Six display modes to discern tide movement from a variety of angles

- Continuous display of tide speed and direction at five different depth layers
- Triple-beam system for automatic error compensation against pitching and rolling
- True tide current presentation with external GPS navigator and Satellite compass

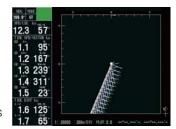


Tide speed and direction for the fifth depth layers are displayed with vectors. The depth of each layer can be set manually in 1 m intervals. Other information such as tide differential between the basic layer and the reference layer, heading and course can also be displayed in large text.



SHIP'S SPEED

Displays the speed components for fore-aft and port-starboard. The synthesized vector (green line) intuitively shows drift direction. The speed source is selectable on the menu from ground tracking or water tracking.

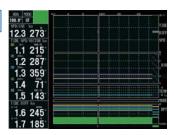


TRACK

Tide vectors can be shown on the ship's track in user specified intervals.

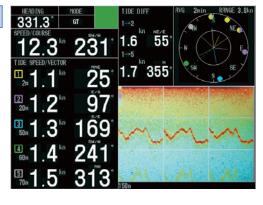
TIDE LOG

Displays the tide information over the past twelve hours.



ECHO LEVEL

Displays echogram obtained from each beam. It helps evaluate the concentration or distribution of fish school or seabed at three directions simultaneously.



INTERCONNECTION DIAGRAM Standard configuration (with standard LCD monitor) BlackBox configuration (with custom monitor) Transceiver Unit CI-6810 CI-6810 AD-10 AD-10 Gyro Gyro VGA Monito Satellite Compass SC-50/110 Satellite Compass SC-50/110 Display Unit MU-100C NMFA0183 NMEA0183 GPS Echo Sounder 30/50 m Echo Sounder Scaning Sonar 10/20/ Scaning Sonar Control Unit* CI-6888 5/10/15/ 20/30 m Junction Box CI-630 5/10/15/ 20/30 m Junction Box CI-630 Control Unit can be mounted separately with an optional cable CI-6888 10/20 m 10/20 m DC/AC DC/AC Inverter Inverter Option Option 24 VDC 115/230 VAC 24 VDC 110/240 VAC Local supply Local supply

SPECIFICATIONS OF CI-68

Display

10.4" TFT color LCD, 640 x 480 pixels

Ship's speed, Course, Drift angle, Tide (5 layers), Contents:

Tide differential (2 layers), Setting depth, Heading,

Position, Echo level, Water temperature

Display mode: Tide vector, Graph, Course plot, Ship's speed,

Text, Echo monitor

System frequency

244 kHz

Tracking mode

Ground tracking, Water tracking, Nav-aid, Automatic, External

Ship's Speed

Measurement range: -10.0 to 30 kt (Fore-aft)

-9.9 to +9.9 kt (Port-starboard)

Accuracy: Within \pm 1% or 0.1 kn

Direction: All directions (360°) in one-degree steps Measurement depth: 3-300 m (ground tracking mode), Actual

depth depends on installation method and

underwater conditions.

Tide

Speed: 0.0 to 9.9 kt Accuracy: Within 0.2 kn

All directions (360°) in one-degree steps Direction:

Number of layers: 5 layers

Measurement range: 2-150 m, Up to about 75% of depth.

(Over 22 m of water depth is required in Ground tracking mode. Over 40 m water depth is required

in Water Tracking mode)

Other functions: Bottom tide tracking, Alarm output,

Interference rejecter, Demonstration mode

Adjustment: Ship's speed, Tide, Installation angle (bearing,

trim, heel), Course error, Draft, External KP

Interface (NMEA 0183 Ver. 1.5/2.0/3.0, IEC 61162)

Input: DBT, DPT, GGA, GLL, HDT, HDM, HDG, MTW, RMA

RMC, VTG, ZDA

CUR, VBW, VDR, VHW, VLW, VTG

ENVIRONMENT (IEC 60945 test method)

Temperature Transducer: -5°C to +35°C

> Other Unit: -15°C to +55°C

Transceiver/Monitor unit: IPX0 Degree of protection

Control unit: IPX2 (panel), IPX0 (chassis)

Junction box: IPX4 Transducer: IPX8

POWER SUPPLY

Transceiver unit: 100/240 VAC, 3-1.5 A

EQUIPMENT LIST

Standard

1. Control or Control/Monitor Unit CI-6888/MU-100C 1 set 2. Transceiver Unit CI-6810 1 unit

3. Transducer CI-620-1-68 with 10 m cable or

CI-620-2-68 with 20 m cable (Specify when ordering) 1 unit 4. Transducer Casing CI-620-T-F 1 unit 5. Through-Hull Pipe CI-620-K-S 1 unit 6. Installation materials and spare parts 1 set

Option

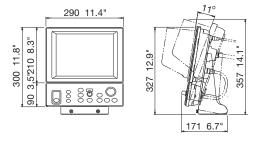
1 set 1. Junction Box CI-630 2. DC-AC Inverter TR-2451 1 set 3. Transducer Casing CI-620-T-S (for steel ship) 1 set 4. Through-Hull Pipe CI-620-K-S (for steel ship) 1 set

5. Cable for Transceiver - Junction box Z-6FVNV-SX-C 3P+1P, 5/10/15/20/30 m

6. Cable for Display - Control Unit 66S1239, 5/10 m

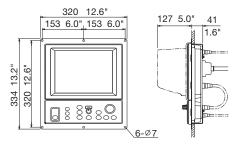
Display/Control Unit

MU-100C/CI-6888-5E 5.7 kg, 12.6 lb



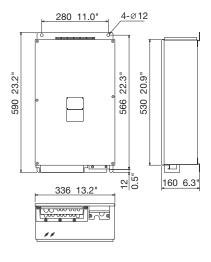
Flush Mount type

4.2 kg, 9.3 lb



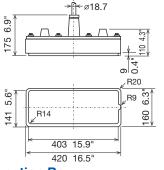
Transceiver Unit

CI-6810 17.0 kg, 37.5 lb



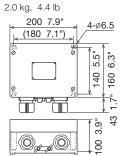
Transducer

CI-620-1-68 with 10 m cable 21 kg, 46.3 lb CI-620-2-68 with 20 m cable 26 kg, 57.3 lb



Junction Box

CI-630 2.0 kg, 4.4 lb



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

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