

SPECIFICATIONS

|                       |                                                                                                                                                                                          |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Measuring Range       | 50 kHz: 2 to 200 m<br>200 kHz: 1 to 200 m                                                                                                                                                |
| Accuracy              | 0.5 m at 20 m range, 5 m at 200 m range, or 2.5% of depth range                                                                                                                          |
| Roll/Pitch Tolerance  | Roll: ±10° Pitch: ±5°                                                                                                                                                                    |
| Discrimination        | more than 5 mm per meter depth on 20 m range<br>more than 0.5 mm per meter depth on 200 m range                                                                                          |
| Picture Advance Speed | 15 minutes at 200 m range                                                                                                                                                                |
| Output Power          | 1 kW rms                                                                                                                                                                                 |
| Frequency             | 50 kHz, 200 kHz, 50/50 kHz, 50/200 kHz, 200/200 kHz                                                                                                                                      |
| Transducer            | 50 kHz: 50B-6B<br>200 kHz: 200B-8B                                                                                                                                                       |
| Range Scale           | 8 steps<br>default: 5, 10, 20, 40, 100, 200, 400, 800 m                                                                                                                                  |
| Display               | 8.4" color LCD                                                                                                                                                                           |
| Display Modes         | NAV, HISTORY, OS DATA                                                                                                                                                                    |
| Display Colors        | Echo: 8 colors<br>Background/Texts: 3 types (Black/White, Blue/White, White/Black)                                                                                                       |
| Interface             | IEC 61162-450 x 1<br>RS-232C x 1 (PP-505-FE)                                                                                                                                             |
| Input                 | IEC 61162-1 (IN) x 2                                                                                                                                                                     |
| Output                | IEC 61162-1 (OUT) x 4<br>Contact closure x 1 (Power fail)                                                                                                                                |
| Auto Function         | Range, Gain                                                                                                                                                                              |
| Alarm                 | Power Failure*<br>*At the time of the power failure, FE-800 cannot generate visual/audible alarms.<br>Please interface the equipment which can generate visual/audible alarms to FE-800. |
| Data Recording Period | Recording Interval Setting Amount of Data for Storage and Playback                                                                                                                       |
|                       | 5 sec 1 h                                                                                                                                                                                |
|                       | 1 min 12 h                                                                                                                                                                               |
|                       | 2 min 24 h                                                                                                                                                                               |

POWER SUPPLY

100-230 VAC 1 ϕ 50/60 Hz

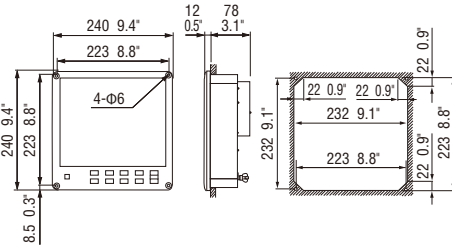
ENVIRONMENT

|                     |                  |               |
|---------------------|------------------|---------------|
| Ambient Temperature | Display Unit     | -15°C to 55°C |
|                     | Transceiver Unit | -15°C to 55°C |

Display Unit

FE-8010

2.3 kg 5.1 lb

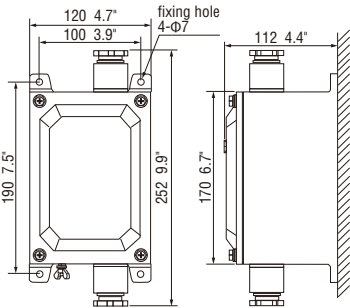


Matching Box

MB-502 (for 50B-6B)

MB-504 (for 200B-8B)

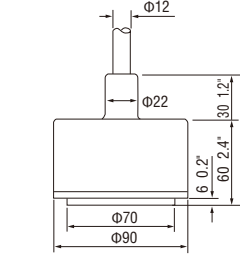
2.6 kg 5.7 lb



Transducer

50B-6B

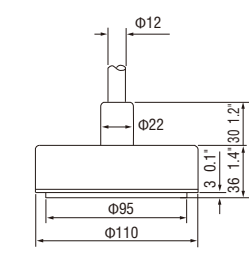
4.1 kg 9.0 lb



Transducer

200B-8B

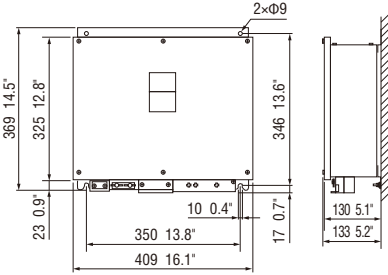
3.6 kg 7.9 lb



Transceiver Unit

FE-8020

10 kg 22.1 lb



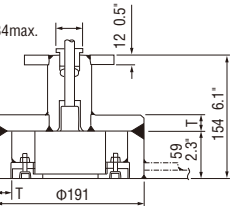
Transducer Tank

TTF-5600 (for 50B-6B)

Standard T=20: 18 kg 39.7 lb

Option T=12: 15 kg 33.1 lb

Option T=25: 20 kg 44.1 lb



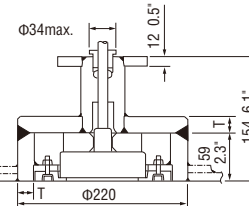
Transducer Tank

TTF-2000 (for 200B-8B)

Standard T=20: 20 kg 44.1 lb

Option T=12: 16 kg 35.3 lb

Option T=25: 22 kg 48.5 lb



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SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

EQUIPMENT LIST

Standard

|                     |          |       |                   |
|---------------------|----------|-------|-------------------|
| 1. Display Unit     | FE-8010  | 1unit |                   |
| 2. Transceiver Unit | FE-8020  | 1unit |                   |
| 3. Transducer       | 50B-6B   | 1unit | cable: 15/30/50 m |
|                     | 200B-8B  |       | cable: 15/30/50 m |
| 4. Matching Box     | MB-502   | 1unit | for 50B-6B        |
|                     | MB-504   |       | for 200B-8B       |
| 5. Transducer Tank  | TTF-5600 | 1unit | for 50B-6B        |
|                     | TTF-2000 |       | for 200B-8B       |

Option

|                     |            |  |                           |
|---------------------|------------|--|---------------------------|
| 1. Transceiver Unit | FE-8020    |  |                           |
| 2. Transducer       | 50B-6B     |  | cable: 15/30/50 m         |
|                     | 200B-8B    |  | cable: 15/30/50 m         |
| 3. Matching Box     | MB-502     |  | for 50B-6B                |
|                     | MB-504     |  | for 200B-8B               |
| 4. Transducer Tank  | TTF-5600   |  | for 50B-6B                |
|                     | TTF-2000   |  | for 200B-8B               |
|                     | TTF-5001   |  | for 50B-6B                |
|                     | TTF-2001   |  | for 200B-8B               |
|                     | TTF-5002   |  | for 50B-6B (with flange)  |
|                     | TTF-2002   |  | for 200B-8B (with flange) |
| 5. Gate Valve       | GV-50B-6B  |  |                           |
|                     | GV-200B-8B |  |                           |
| 6. Printer          | PP-505-FE  |  |                           |
| 7. PC Software*     | OP12-2     |  |                           |
| 8. LAN cable        | DTI-C5e350 |  |                           |
| 9. Interface Unit   | IF-2503    |  |                           |

\* Runs under Windows 7 ® and Windows 8 ®

NAVIGATIONAL  
ECHO SOUNDER

Model: FE-800



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## NAVIGATIONAL ECHO SOUNDER

# FURUNO Navigational Echo Sounder FE-800 displays the clearance below the ship in the dual frequency operation\*

### ► Dual frequency display (50/200 kHz)\*

The depth at the FORE and AFT positions can be displayed simultaneously.

### ► A variety of display modes available: NAV, OS DATA and HISTORY

### ► High contrast 8.4" LCD

► When interfaced with FURUNO remote display RD-20/50, depth information can be observed at a remote location

### ► Optional printer interface available for printing out echogram

► Connecting a PC with the optional data recording software allows you to store, compile and print out the past data of the echogram via PC

### ► BAM (Bridge Alert Management) ready\*\*

Meets the specific requirements for alerts and interconnection with Bridge Alert Management in IMO MSC.302 (87)

\*\* BAM capability is to be implemented as software update after the product release in early 2015.

### ► Depth data for the past 24 hours is storable in the internal memory

For the amount of data for storage and playback on the FE-800, please refer to "HISTORY" on the right page. With the optional PC software, the sounding information can be stored and played back for 24 hours, when the recording interval is set at 5 sec.

### ► Visual and audible alerts

The FE-800 generates alerts when the water depth below transducer is shallower than a preset depth. When the seabed is lost due to the lowered power supply or out of range scale, an alert is generated.



\*When interfaced with two transducers

## OS DATA

Displays Own Ship Data (OS DATA)\*

\* only available if the FE-800 is connected to an external EPFS (Electronic Position-Fixing System), such as a GPS navigator.



## LOGBOOK

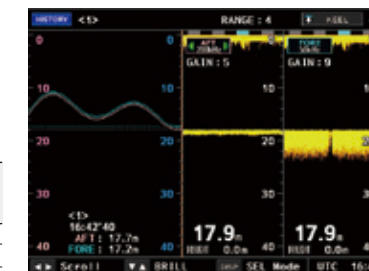
Displays the stored time, depth and own ship position. The logbook is capable of storing data for up to 720 log entries.



## HISTORY

Displays a combination of Contour and Strata echo readings taken.

| Recording interval setting | Amount of data for storage and playback |
|----------------------------|-----------------------------------------|
| 5 sec                      | 1 h                                     |
| 1 min                      | 12 h                                    |
| 2 min                      | 24 h                                    |



## Alert Log List

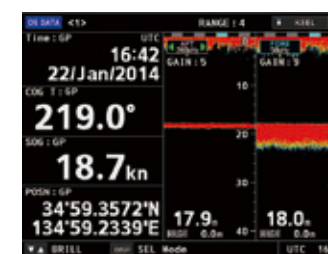
Displays the alert history (containing up to 100 alerts).



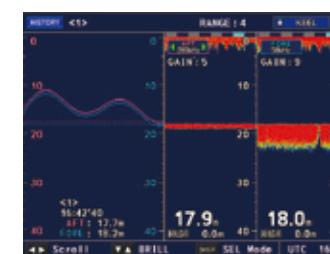
## Color Presentation



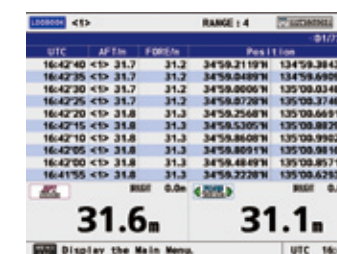
Background: Black Echo: Amber



Background: Black Echo: Red



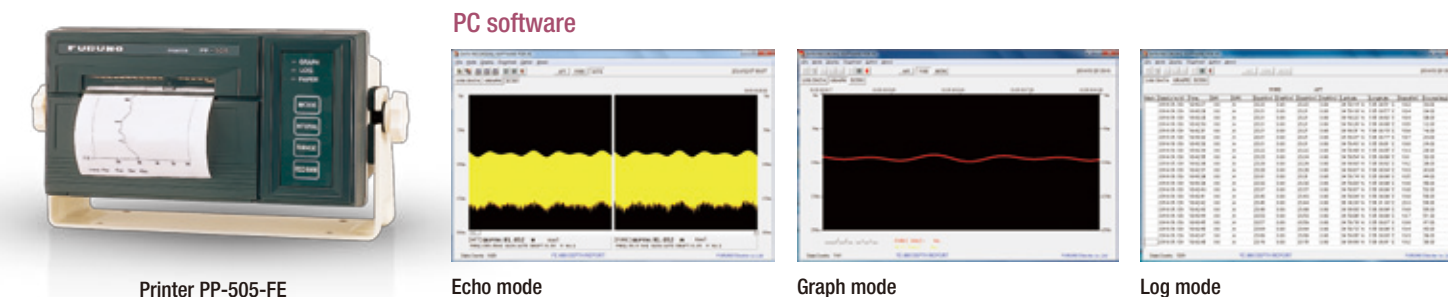
Background: Blue Echo: Red



Background: White Text: Black

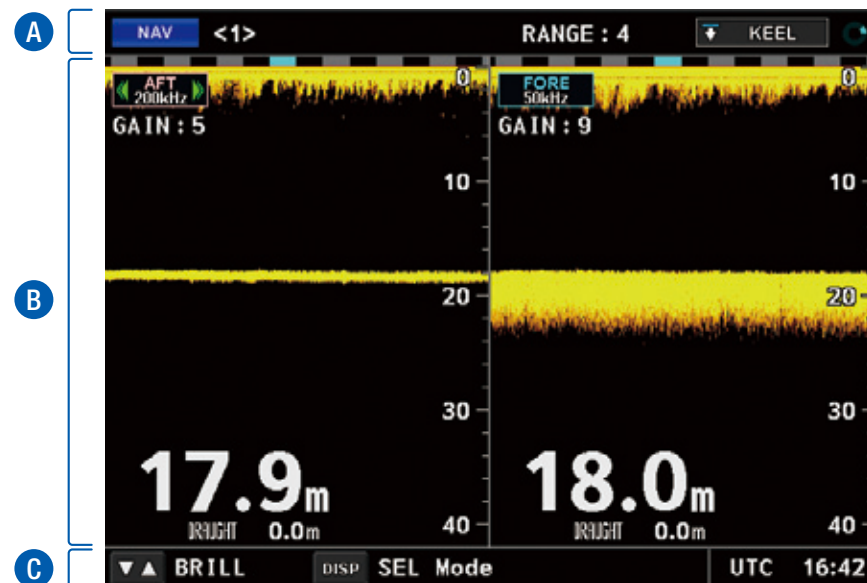
## Optional printer and PC software to utilize the stored data

The past data can be stored on a PC with the optional software. Also, printout function of the echogram is available via the optional printer PP-505-FE.



## NAV Mode

Displays the depth numerically and graphically.

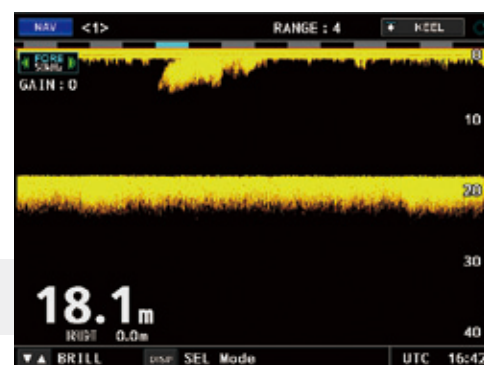


**A** Current range setting, reference point for the depth reading (Transducer/Surface/Keel) as well as currently selected mode are displayed.

**B** This area shows the information specific to the display mode currently selected. Please refer to each of the display modes for details.

**C** Guide to currently available actions is displayed. Under an alert situation, the information about the most imminent alert is displayed.

230 Depth below Keel Alarm UTC 16:42



Single frequency display (FORE or AFT) ►►

## Interconnection Diagram

