

The screenshots shown in this Operator's Guide are taken in the landscape format. The display layout is different in the portrait format. Key operation is available in the portrait format.

Touch screen and key operation

**Tap**



- Select menu item.
- Move the cursor to tapped location.
- Tap the button shown on the screen and set.

**Drag/Swipe**



- Move the cursor.
- Scroll the menu.
- Select a range.
- Adjust the setting with the slider bar.

**Key Operation**

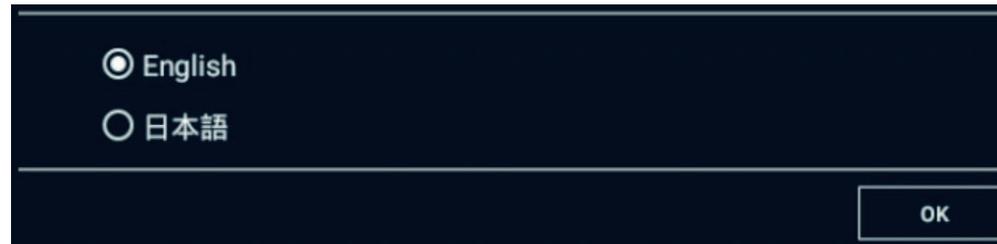




Open/Close menu.      Move cursor.      Confirm menu item.

Setup operations (When turned on for the first time.)

① Language selection menu appears.



- Tap English.
- Tap OK.

② Display selection menu appears.



- Tap LANDSCAPE or PORTRAIT.

③ Sensor selection menu appears.



- Tap the sensor to use (RADAR SENSOR / FISH FINDER SENSOR / MULTI BEAM SONAR).

# When Radar Sensor is selected

## Menu Operation

Tap  icon (shown on the top-left of the screen) to show the InstantAccess bar™.

InstantAccess bar™

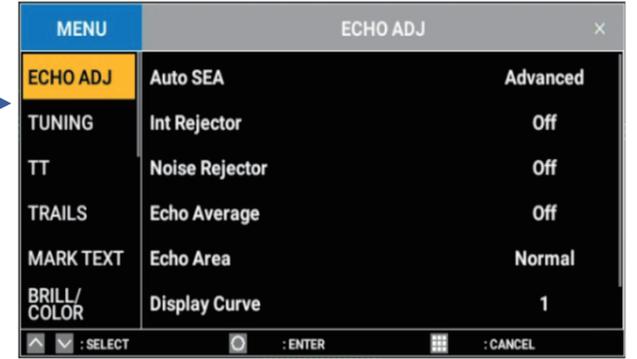
The contents of the BRILLIANCE menu are common to Radar sensor, Fish Finder sensor and Multi Beam Sonar. (The order of menu items changes according to the selected sensor.)

Short press BRILLIANCE menu appears.



Short press

Short press

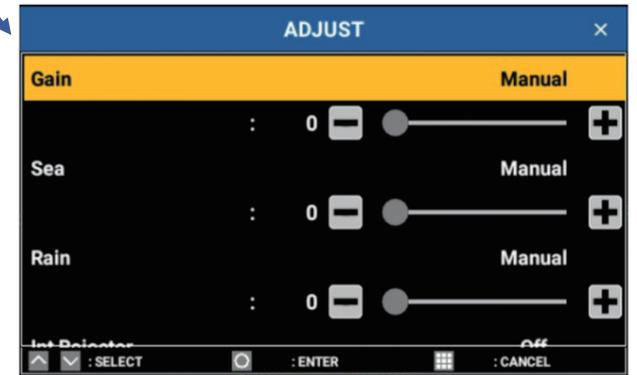


Setting menu appears. Close the menu by pressing again.

Drag the menu window up or down to scroll and tap the menu to set. (Or use the arrow keys to select the menu and press  key to set.)



Menu Item	Details
Brilliance	Adjust the display brilliance.
Palette	Change the background color.
Key Brill.	Adjust the key brilliance.
Touch Lock	Lock the touch operation.
Power Off	Turn off the unit.
Sensor Switching	Move to sensor selection mode (③ on page 1).

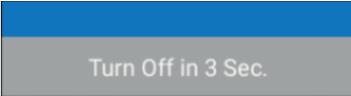


ADJUST (Echo Adjust) menu appears.

Menu Item	Details
Gain	Adjust the radar gain.
Sea	Suppress the echo reflected from sea.
Rain	Suppress the echo reflected from rain or snow.
Int. Rejector	Reject interference.
Noise Rejector	Reduce the echo noise.

**Turning Off the power**

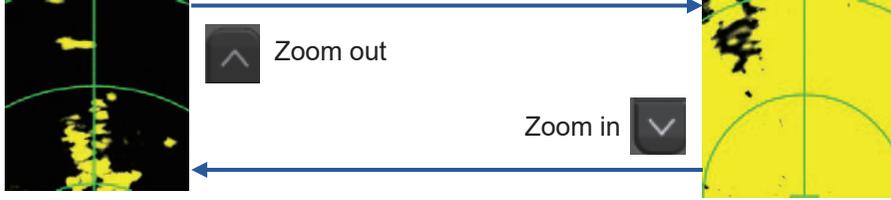
Long press Power off pop-up appears after pressing the power key for over three seconds.



Keep pressing the power key for more three seconds after the pop-up window appears to turn off the power.

# Other key operations, function box and display

## Change the Range



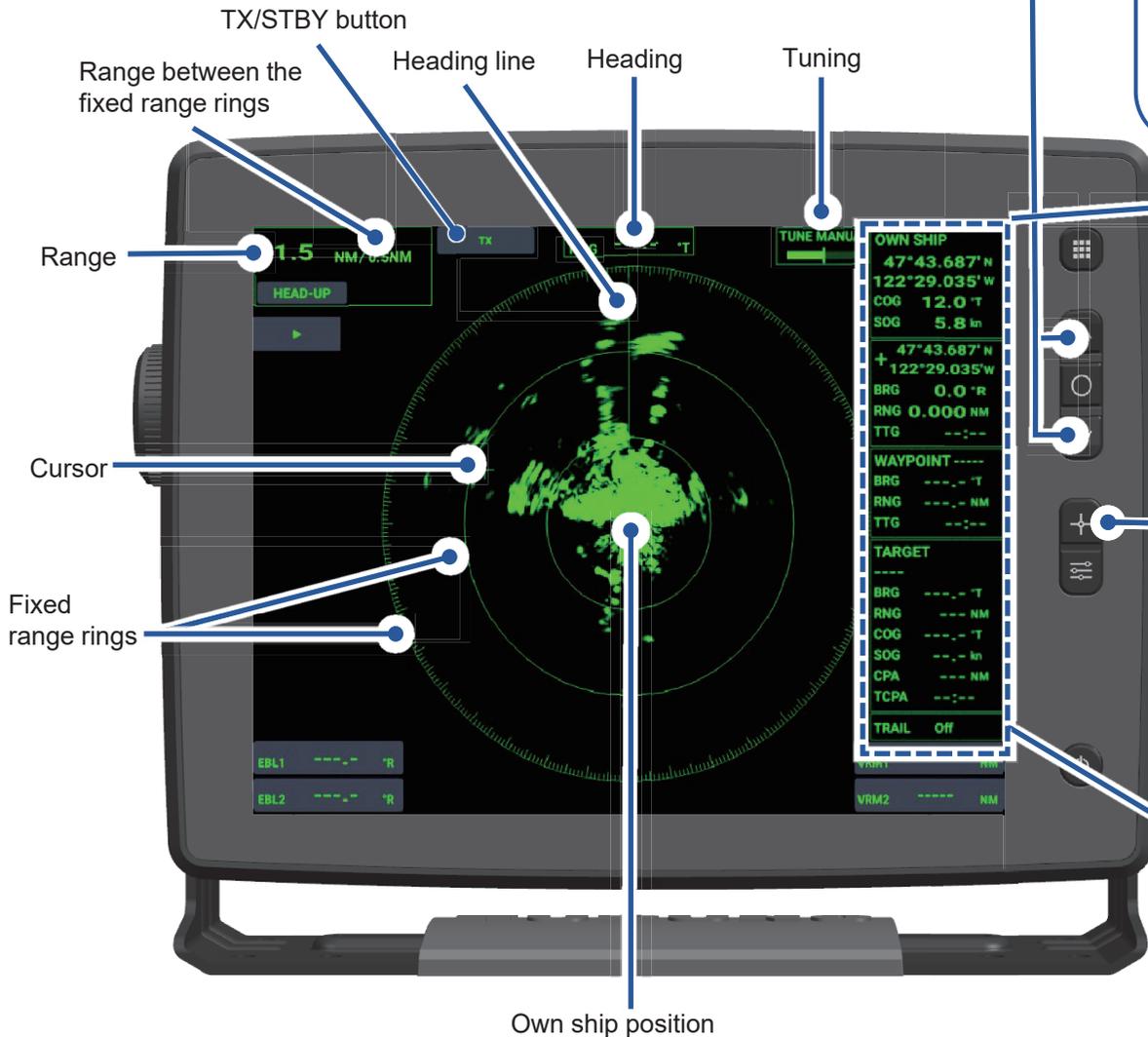
## TLL Output and point

Functions will differ according to the menu settings.

TLL Output	Output the current latitude and longitude position of the selected target to external equipment.
Fixed Mark	Record and display the current cursor longitude and latitude. 

A maximum of 20 fixed marks can be displayed. When the maximum amount is exceeded, the oldest mark is automatically deleted.

To delete a fixed mark just after entering it, press the  key.



## Function Box

### OWN SHIP information

- Own ship L/L position, course, speed.

+

- L/L position of cursor
- Bearing, range, and time-to-go (TTG) to the cursor.

### WAYPOINT

- Bearing to the waypoint.
- Range and time-to-go (TTG) to the waypoint.

### TARGET

- Bearing, speed, course to the selected target.
- Range to the selected target.
- CPA (Closest Point of Approach) to the selected target.
- TCPA (Time to the Closest Point of Approach)

### TRAIL

- Setting of trail (On/Off)
- Trail can be set from the InstantAccess bar™.

## Adjustment of Gain, Sea and Rain



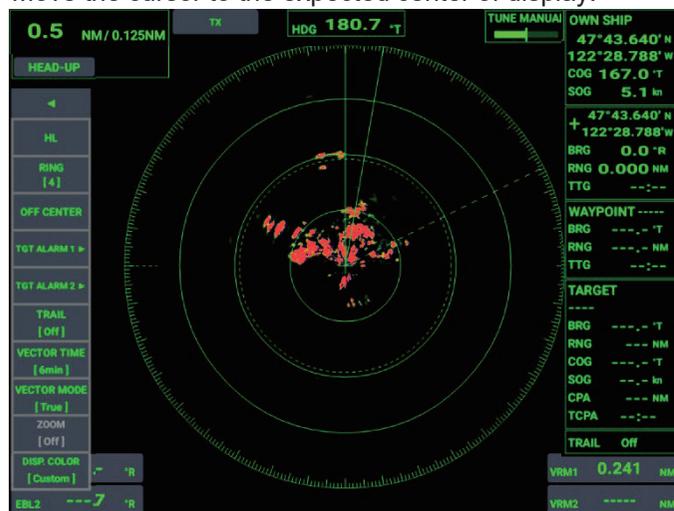
When [Manual] is selected: Use the slider bar below selected item for adjustment.  
 When [Auto] is selected: Adjustment is not available; the slider bar is grayed out.

The slider bar can be moved with the following two methods, in addition to tapping it.

- Tap the [-]/[+] button on both sides of the slider bar.
- Press the [] key or [] key.

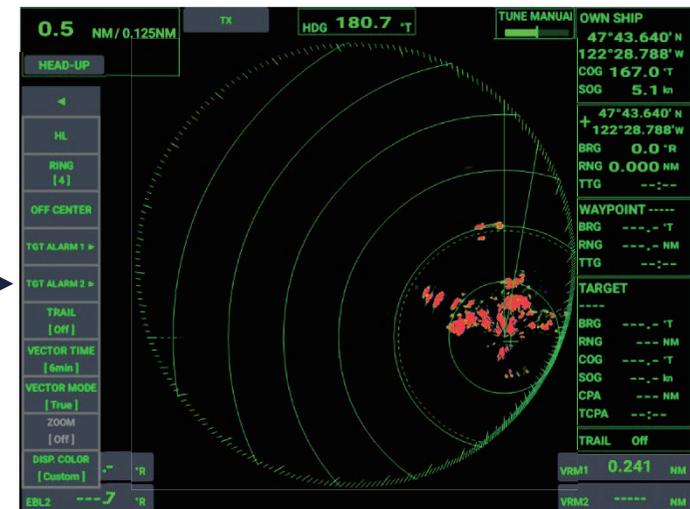
## Off-center

Move the cursor to the expected center of display.



**OFF CENTER**

Tap [OFF CENTER] of InstantAccess bar™.



# When Fish Finder Sensor is selected

Range  
 AUTO: (Auto Mode)  
 MANUAL: (Manual Mode)

Gain Settings  
 G: 0.0~10 (Manual Mode)  
 G: AF (Auto Mode: Fishing)  
 G: AC (Auto Mode: Cruising)

## Alarm Icon

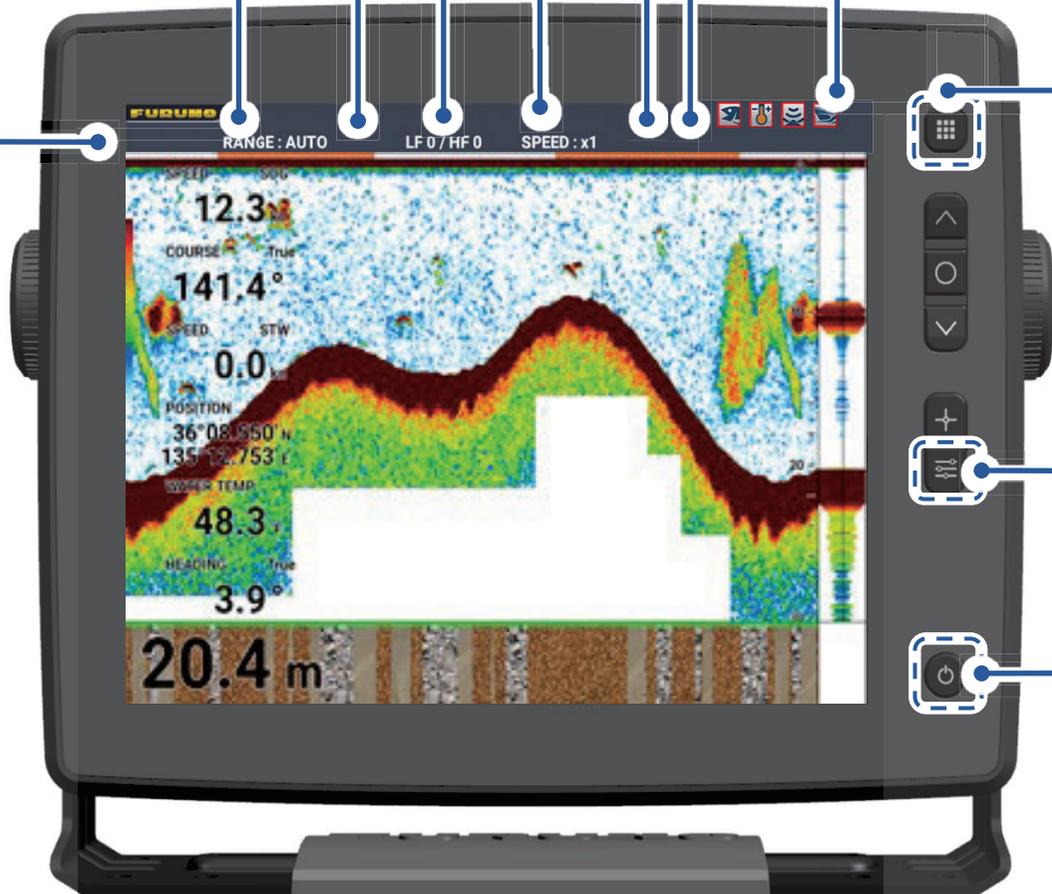
-  : Fish Alarm
-  : Depth Alarm
-  : Temperature Alarm
-  : Speed Alarm

## Menu

MENU	SOUNDER	X
SOUNDER	Pic. Advance	[ Stop ]
DISPLAY	Shift	[ -1 m ]
ALARM	Interference	[ Off ]
DATA	Color Erase	[ 0 % ]
IA BAR	Clutter	[ -1 % ]
SYSTEM	White Marker	
	TVG HF	[ -1 ]
	TVG LF	[ -1 ]
	Smoothing	[ Off / On ]
	Bottom Area	[ -1 % ]
	Heaving Corr.	[ Off / On ]
	TX Rate Mode	[ Manual ]
	TX Rate	[ -1 ]
	Transmit	[ Off / On ]

## InstantAccess bar™

- Pic. Advance [ Stop ]
- Shift [ -1m ]
- Interference [ Off ]
- Color Erase [ 0% ]
- Clutter [ -1% ]
- A-Scope [ Off ]
- ACCU-FISH [ Off ]
- Bottom Disc. [ Off ]
- Preset 1**
- Preset 2
- Preset 3



## Popup

- Range Auto
- Range
- Mode
- Gain Auto
- Offset HF
- Offset LF
- Gain HF
- Gain LF

See the next page.

## Brilliance Menu

Short Press

Brilliance		X
Touch Lock		Off / On
Palette		White
Brilliance	16	
Key Brill.	8	
Power Off		

**Sensor Switching**

Move to sensor selection mode (③ on page 1).

The contents of the Brilliance menu are common to Radar sensor, Fish Finder sensor and Multi-Beam Sonar. (The order of menu items changes according to the selected sensor.)

## How to display fish size

[Menu] → [DISPLAY] → [ACCU-FISH] → [ACCU-FISH] → [On]

Fish Symbol (Selectable from four types)  
 ※ The symbol size changes with fish size.

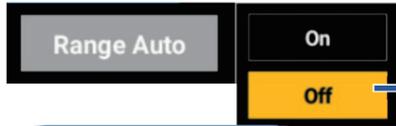


Fish Size/Depth **5.5**  
 (Selectable with [Fish Info].)  
 ※ Size of number can be changed with [Info Size].

	Striped	Solid	Circle	Square
Large fish size (more than 50 cm, or more than 20 inches)				
Small fish size (10 to 49 cm, or 4 to 19 inches)				

## Pop up menu

### Change range mode



### Change display mode

Mode

HF	HF: High freq. single display mode
LF	LF: Low freq. single display mode
LF/HF	LF/HF: Low/High freq. dual display mode
BL-HF	BL-HF: High freq. Bottom lock display
BL-LF	BL-LF: Low freq. Bottom lock display
BZ-HF	BZ-HF: High freq. Bottom zoom display
BZ-LF	BZ-LF: Low freq. Bottom zoom display

### Gain Offset

Offset HF 0

Offset LF 0

### Change display range

Range

5m  
10m  
20m  
40m  
80m  
150m  
200m  
300m

### Auto Gain Offset

Gain Auto

Off  
Fishing  
Cruising

### Gain Adjust

Gain HF 0

Gain LF 0

## Bottom Discrimination

[Menu] → [DISPLAY] → [Bottom Disc.] → [Type View] → [Graphic] or [Probability]

### Graphic

Bottom discriminator display column

Rock Gravel Sand Mud

Example of [Bottom Disc.] menu setting

- Bottom Disc: Graphic
- Legend: On

Displays the most probable bottom sediment.

Legend

### Probability

Bottom discriminator display column

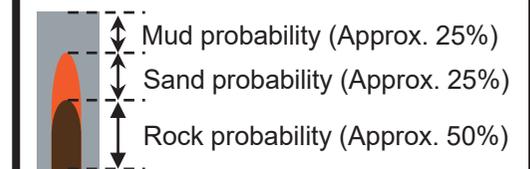
Rock Gravel Sand Mud

Example of [Bottom Disc.] menu setting

- Bottom Disc: Probability
- Legend: On

Displays bottom data in graph form.

### Graph Explanation

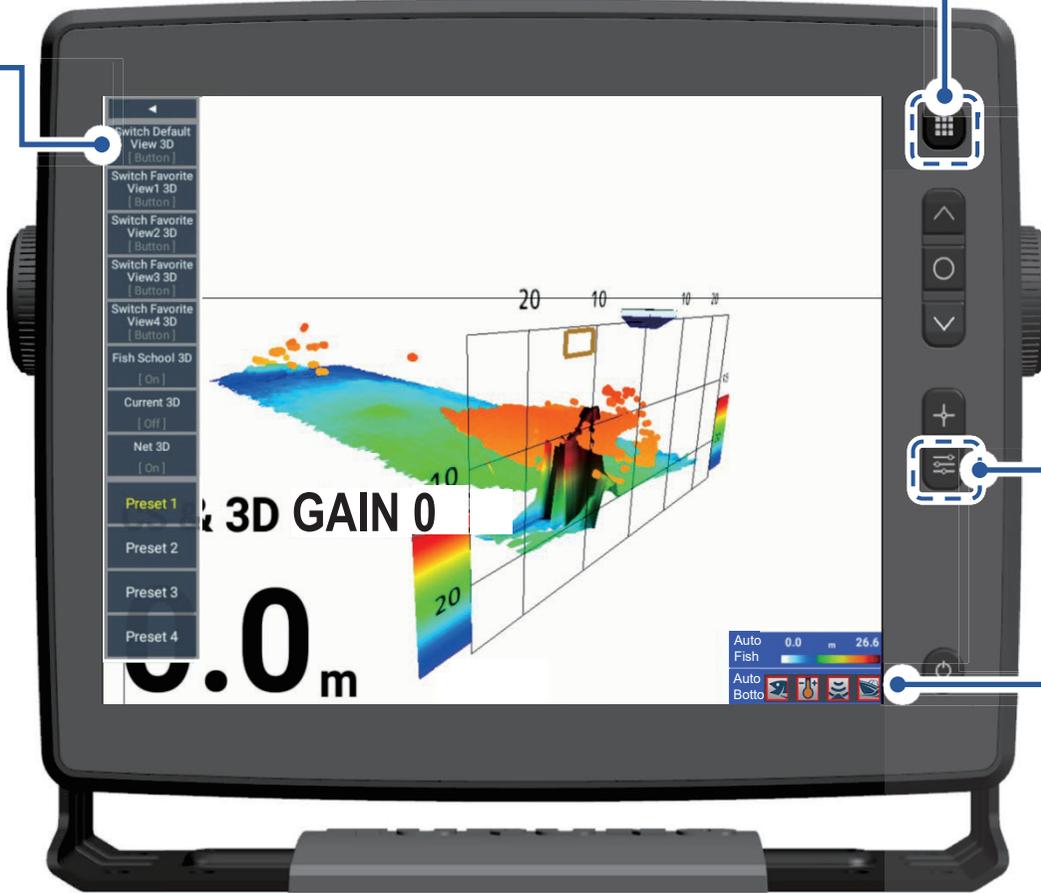


When DFF-3D is selected

3D History Mode

InstantAccess bar™

- Switch Default View 3D [Button]
- Switch Favorite View1 3D [Button]
- Switch Favorite View2 3D [Button]
- Switch Favorite View3 3D [Button]
- Switch Favorite View4 3D [Button]
- Fish School 3D [On]
- Current 3D [Off]
- Net 3D [On]
- Preset 1**
- Preset 2
- Preset 3
- Preset 4



**Menu**

MENU	COMMON	X
COMMON	Bottom Area	: [ -1% ]
	Bottom Level	: [ -1 ]
SOUNDER	TX Pulse	: [ Standard ]
SIDE SCAN	Transmit	: [ Off / On ]
SONAR		
3D HIST.		
DISPLAY		
ALARM		
DATA		
IA BAR		
SYSTEM		

▲ : SELECT  
 ○ : ENTER  
 ■ : CANCEL

**Popup**

Sounder X

**Range Auto**

Range

Mode

MB Gain Auto

MB Gain Offset

MB Gain

MB Beam Angle

MB Beam Width

Alarm Icons appear here.

Pinch Operation

Zoom in and out with pinch operation are available in the 3D History and Cross Section modes.



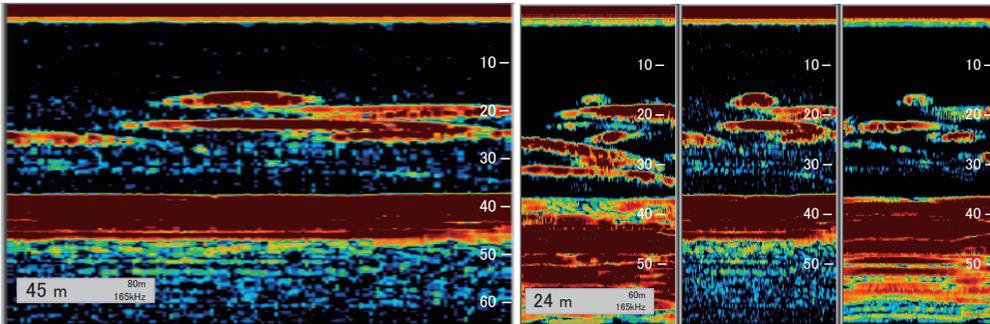
Zoom In



Zoom Out

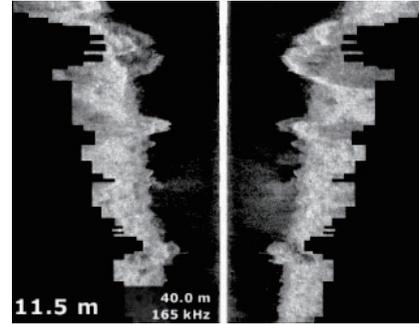
In addition to the 3D History display shown above, the modes described below are available. You can select these modes from the Popup menu.

Single/Triple Beam Fish Finder Mode



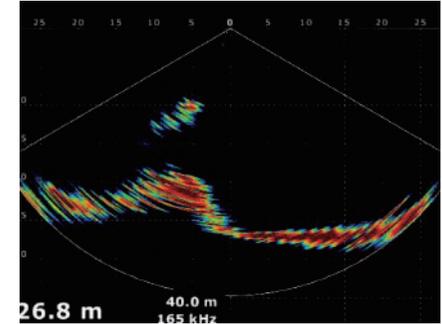
In the triple beam fish finder mode, the beams in three directions (port, downward, and starboard) are displayed simultaneously.

Side Scan Mode



A wide-angle beam displays a wide section of terrain.

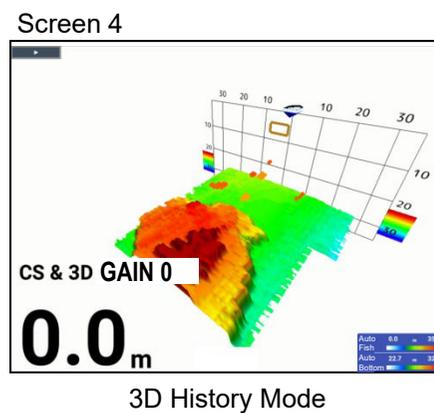
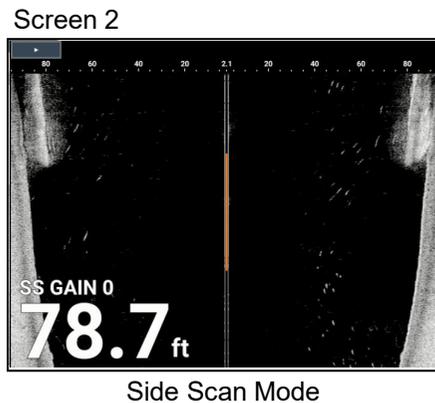
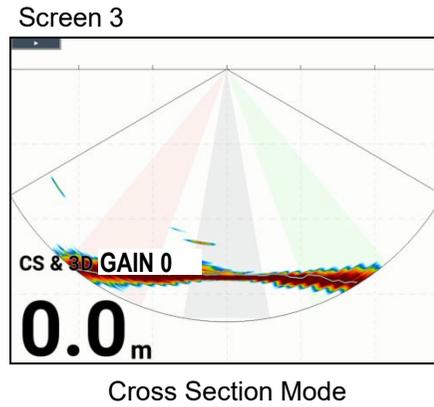
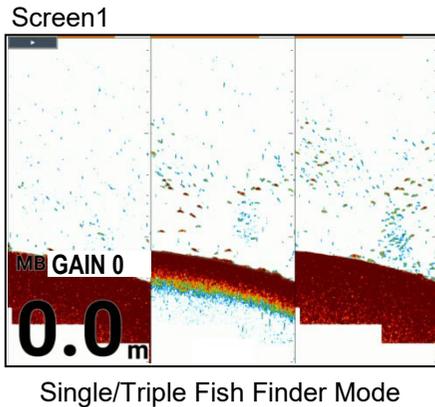
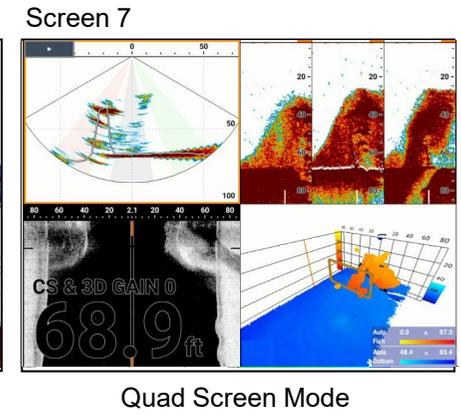
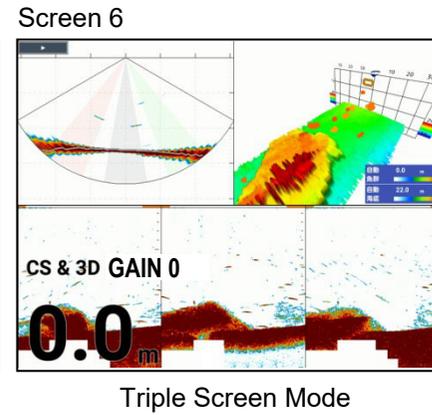
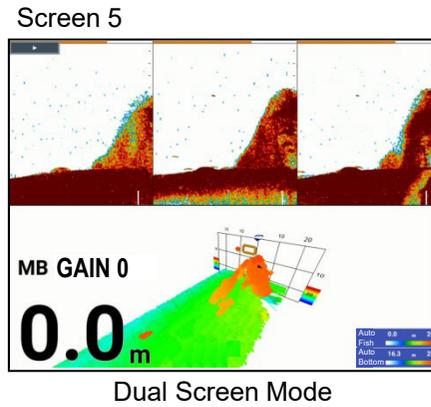
Cross Section Mode



Displays an underwater cross-sectional image from port to starboard.

Screen 1~7 (Popup menu, Factory default)

<b>Sounder</b> X	<b>Screen1</b>
Range Auto	Screen2
Range	Screen3
<b>Mode</b>	Screen4
MB Gain Auto	Screen5
MB Gain Offset	Screen6
MB Gain	Screen7
MB Beam Angle	
MB Beam Width	



MENU	DISPLAY	X
COMMON	Depth Size : [ Medium ]	
SOUNDER	Gain Size : [ Medium ]	
SIDE SCAN	Palette : [ White ]	
SONAR	Header Scale : [ Time ]	
3D HIST.	Scale Size : [ 5 ]	
	<b>Screen Setup</b>	
DISPLAY	Screen 1	
ALARM	Screen 2	
DATA	Screen 3	
IA BAR	Screen 4	
SYSTEM	Screen 5	
	Screen 6	
	Screen 7	
↑ : SELECT		
○ : ENTER		
☰ : CANCEL		

Screen 1 Setup		X
Split Screen	: [ Full Screen ]	
Mode 1	: [ Multi Beam ]	
Mode 2	: [ Side Scan ]	
Mode 3	: [ Sonar ]	
Mode 4	: [ 3D-History ]	
1		

The contents of Screen 1 to 7 are customizable on the Screen Setup menu.

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