

The purpose of this guide is to provide the basic operating procedures. For detailed information, see the Operator's Manual.

### Panel Dimmer

1. **DIM** ⇒ 

LOW	-	+	HIGH
DIMMER: 5 ■■■■■■			
2. **-** **+** ⇒ Adjust illumination of the control panel.

### Depth Below Surface

1. **DBS** **MODE** ⇒ Select DBS with MODE knob.
2. **DRAFT** ⇒ 

0.0	m
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-/+ : To set option
3. **-** **+** ⇒ Set the draft of the ship.

### Shallow Depth Alarm

To set preset depth for shallow depth alarm:

1. **MUTE ALARM** ⇒ 

DEPTH ALARM
10 m
-/+ : To set option
2. **-** **+** ⇒ Set the preset depth.

To acknowledge the alarm:



Shallow depth alarm setting

From above:  
Transducer in use,  
Range setting,  
Gain setting,  
Mode setting

Range scale

Depth

Depth measurement method (Below transducer, Below surface, or Below keel)

Depth unit

### Tone and Brilliance

1. **BRILL** ⇒ 

LOW	▼	▲	HIGH
BRILL: 8 ■■■■■■			
LOW	-	+	HIGH
TONE: 3 ■■■□□□□□			
2. **-** **+** ⇒ Adjust tone.
3. **AUTO** **COLOR** ⇒ Adjust brilliance.

### Automatic Operation

1. **AUTO** ⇒ 

AUTO MODE	
OFF	ON
-/+ : To set option	
2. **+** ⇒ ON
3. **-** ⇒ OFF

The automatic function automatically selects the proper gain, range scale and clutter level according to depth.

MODE: See page 2.

### Range Scale

1. **RANGE** ⇒ Rotate to set range scale to display bottom.
- The default range scale: 5, 10, 20, 40, 100, 200, 400, 800 m. These values can be changed in menu. In AUTO mode, the range scale is automatically adjusted.

### Gain Control

1. **GAIN** ⇒ Rotate to set gain so that a slight amount of noise remains on the screen.

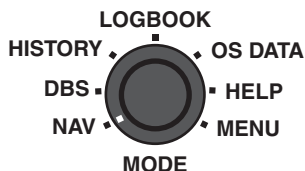
### Picture Color

1. **COLOR** ⇒ 

COLOR										
-	1	2	3	4	5	6	7	8	9	+
2. **-** **+** ⇒ Select a number, referring to the table below.

	Background	Seabed	Others marks
1	Monochrome, 8 intensities		
2	Blue	Red infill	6 colors
3	Black	Red infill	6 colors
4	White	Red infill	6 colors
5	Blue	Yellow infill	6 colors
6	Black	Yellow infill	6 colors
7	White	Yellow infill	6 colors
8	Black	7 colors (Strata)	
9	White	7 colors (Strata)	

# MODE



⇒ Rotate to select an appropriate mode.

**1) NAV mode** shows the depth from the transducer to the bottom.

Default screen is as follows.

- Color: Amber
- Range: Automatic setting
- Window: 15 minutes width
- Shallow depth alarm: 20 m

**2) DBS mode** provides a draft-adjusted depth reading. The draft is adjusted by the DRAFT key.

**3) HISTORY mode** provides a mix of contour and strata displays. Press the [+] or [-] key to move the contour display (max. past 24 hours) forward or backward.

HISTORY

History of the bottom

**4) LOGBOOK mode** shows time, depth and own ship position in tabular format.

TIME	DEPTH	L/L	60/60
11:00:00	47.5	36°55.012 N 135°23.123 E	
11:01:00	47.5	36°55.012 N 135°23.123 E	
11:02:00	47.5	36°55.013 N 135°23.123 E	
11:03:00	47.5	36°55.013 N 135°23.123 E	
11:04:00	47.5	36°55.014 N 135°23.123 E	
11:05:00	47.5	36°55.014 N 135°23.123 E	

**5) OS DATA mode** displays own ship data, DATA 1 or DATA 2 (depending on system menu setting).

OS DATA	
POSITION DGPS	N E
COURSE TRUE	
SPEED BT	
TIME	
DEPTH	
DATA 1	DATA 2

TIME	UTC
11:23:45	
DEPTH	
172 m	

**6) HELP** provides information about keys.

**7) MENU** provides functions which normally do not require frequent adjustment.

CLUTTER	
9	(0~16)
INTERFERENCE REJECT	
OFF	IR1 IR2 IR3
PICTURE ADVANCE	
SLOW	FAST
TREND INDICATOR	
OFF	ON
INTERVAL	
5 s	1 min 2 min
1/2	
▼▲: To select item	
- +: To set option	