1. **SENSOR LAMP**: When the Sensor Light is on, it indicates that the sound dome is in the down position.

2. **POWER ON KEY**: Turns on the power, and the sound dome lowers automatically.

3. **POWER OFF KEY**: To turn off the power, press this key for a while. When power is turned off, the sound dome raises automatically.

4. **BRIGHTNESS DIAL**: Adjusts the screen brightness.

5. **GAIN DIAL**: Adjusts the receiver sensitivity.

6. **FAR GAIN DIAL**: Adjusts the receiver sensitivity for the long ranges.

7. **OPERATION MODE**: Calls up the user-defined setting or changes the settings.

8. **NORMAL KEY**: Sonar Mode.

9. **OFF CENTER KEY**: Off-Center Mode.

10. **SIDE SCAN KEY**: Bottom Scan Mode.

11. **THRESHOLD KEY**: Reduces the unnecessary weak echoes accordingly.

12. **CURSOR SHIFT KEYS**: Moves cursor or selects to display Marker or Cursor. Use these keys to change the settings.

13. **ENTER KEY**: Press this key to set the function setting.

14. **HOIST KEYS**: Uploads/downloads the sound dome.

15. **SECTOR KEYS**: Adjusts the sector angle.

16. **RANGE KEYS**: Selects a desired range scale.

17. **BEARING KEYS**: Moves cursor center right or left.

18. **TILT KEYS**: Adjust tilt angle.

19. **TARGET LOCK KEY**: Turns on or off the target lock mode.

20. **CURSOR SELECTION KEY**: Selects Ring Marker or Cross Marker.

21. **MENU KEY**: Displays the function setting menu.
SONAR MODE DISPLAY

COMPASS DISP.
CROSS CURSOR
SHIP'S POSITION
MARKER
SOUND DOME POSITION

COLOR SCALE
SEA BOTTOM
ECHO

SCALE
TILT ANGLE
COMPASS DISP.
BEARING LINE

OPERATION MODE
INTERFERENCE REDUCTION
WATER TEMP.
SPEED
LATITUDE
LONGITUDE

RANGE
BEARING
SECTOR
TILT ANGLE
MARKER
CURSOR

WATER TEMP.
SPEED
LATITUDE
LONGITUDE

138 m

BOTTOM SCAN MODE DISPLAY

SHIP'S POSITION
SCANNING DIRECTION

TILT ANGLE
VRM
SOUND DOME POSITION

SCALE (RANGE)
CROSS CURSOR

OPERATION MODE
INTERFERENCE REDUCTION
WATER TEMP.
SPEED
LATITUDE
LONGITUDE

RANGE
BEARING
SECTOR
TILT ANGLE
MARKER
CURSOR

WATER TEMP.
SPEED
LATITUDE
LONGITUDE

※ "IR" will not be displayed when INTERFERENCE RED. function "OFF" is selected.
※ "A." will not be displayed if OPERATION MODE is not used.
※ To present WATER TEMP./SPEED/LAT./LON./COMPASS DISP. info will require S-1400 is connected to an external equipment.
**MENU**

- Press **MENU** key to display "MAIN MENU".
- Use the cursor shift keys ([↑ · ↓]) to select the item.
- By pressing the cursor shift keys ([← · →]) the function set menu is displayed.

### 1. FUNCTION SET

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>GAIN UP</strong></td>
<td>This function makes it possible to display a clearer picture of the full range and control the sensitivity at various depths. When the menu gain adjust setting is changed from OFF to +10dB, the gain dial volume increases 3 points on the scale.</td>
</tr>
<tr>
<td><strong>TVG CURVE</strong></td>
<td>TVG offsets the effects of propagation loss of sound as it passes through the water. OFF: STC function. The TVG is inactive. 10 - 40LOG: The TVG curve is adjusted to counter the loss.</td>
</tr>
<tr>
<td><strong>DYNAMIC RANGE</strong></td>
<td>By shifting the dynamic range, the display to reflect the received echo more precisely or the display to discriminate their density is selected. The diagram below the menu shows a CURVE you selected.</td>
</tr>
<tr>
<td><strong>PULSE WIDTH</strong></td>
<td>The transmitted pulse width can be set. NORMAL: Setting NORMAL changes automatically according to the range. NARROW: When the searching range is short and high more resolution is required, the pulse width should be set NARROW. WIDE: The longer range gives less resolution. CONSTANT: The initial value of the pulse width is 0.3 msec. The pulse width is to be set every 0.1 msec until from 0.1 to 5.4 msec.</td>
</tr>
<tr>
<td><strong>TX POWER</strong></td>
<td>The output power of the ultrasonic sound wave may be selected.</td>
</tr>
</tbody>
</table>

### 2. REDUCTION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERFERENCE REDUCTION</strong></td>
<td>This function may be used to eliminate noise from other boats. Setting 3 eliminates noise rather than setting 1.</td>
</tr>
<tr>
<td><strong>NOISE REDUCTION</strong></td>
<td>This function may be used to eliminate small noise.</td>
</tr>
</tbody>
</table>

### 3. DISPLAY ITEM SELECTION

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>STEP (SONAR)</strong></td>
<td>The step angle (scanning angle) in the Sonar mode may be selected. Narrow step: The image density is increased but the rotational speed is reduced. Wider step: The image density is reduced but the rotational speed is increased.</td>
</tr>
<tr>
<td><strong>STEP (BOTTOM SCAN)</strong></td>
<td>The step angle (scanning angle) in the Bottom Scan mode may be selected. Narrow step: The image density is increased but the scanning speed is reduced. Wider step: The image density is reduced but the scanning speed is increased.</td>
</tr>
<tr>
<td><strong>SCALE DISPLAY</strong></td>
<td>The scale dots display under SONAR mode can be turned on/off.</td>
</tr>
<tr>
<td><strong>COMPASS DISPLAY</strong></td>
<td>The points of the compass can be shown on the screen in the Sonar mode.</td>
</tr>
</tbody>
</table>

### 4. OTHERS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>TARGET LOCK</strong></td>
<td>This function changes the rotary direction or tracks the target automatically.</td>
</tr>
<tr>
<td><strong>OPERATION MODE</strong></td>
<td>Use these keys to select one of the operation modes you have created. By switching the settings, it is possible to memorize 2 kinds of operation mode in each operation mode key.</td>
</tr>
</tbody>
</table>

<Continued on next page>
## CONNECTIONS

<table>
<thead>
<tr>
<th>Component</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trigger Terminal</td>
<td></td>
</tr>
<tr>
<td>Nav-In Terminal</td>
<td></td>
</tr>
<tr>
<td>Fuse 1</td>
<td></td>
</tr>
<tr>
<td>Fuse 2</td>
<td></td>
</tr>
<tr>
<td>Power Supply Cable</td>
<td></td>
</tr>
<tr>
<td>White Line: +Terminal</td>
<td></td>
</tr>
<tr>
<td>Black Line: -Terminal</td>
<td></td>
</tr>
<tr>
<td>Battery</td>
<td></td>
</tr>
<tr>
<td>Sound Dome Cable</td>
<td></td>
</tr>
<tr>
<td>Sound Dome</td>
<td></td>
</tr>
<tr>
<td>Limit Switch Cable</td>
<td></td>
</tr>
<tr>
<td>Hoist Motor Cable</td>
<td></td>
</tr>
</tbody>
</table>

※ S-1400 operate a universal power supply of voltage between 20 and 30.
※ Use the specified fuse 6A.

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