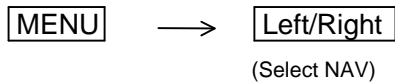## 5.5.2 Nav (Navigation) Menu
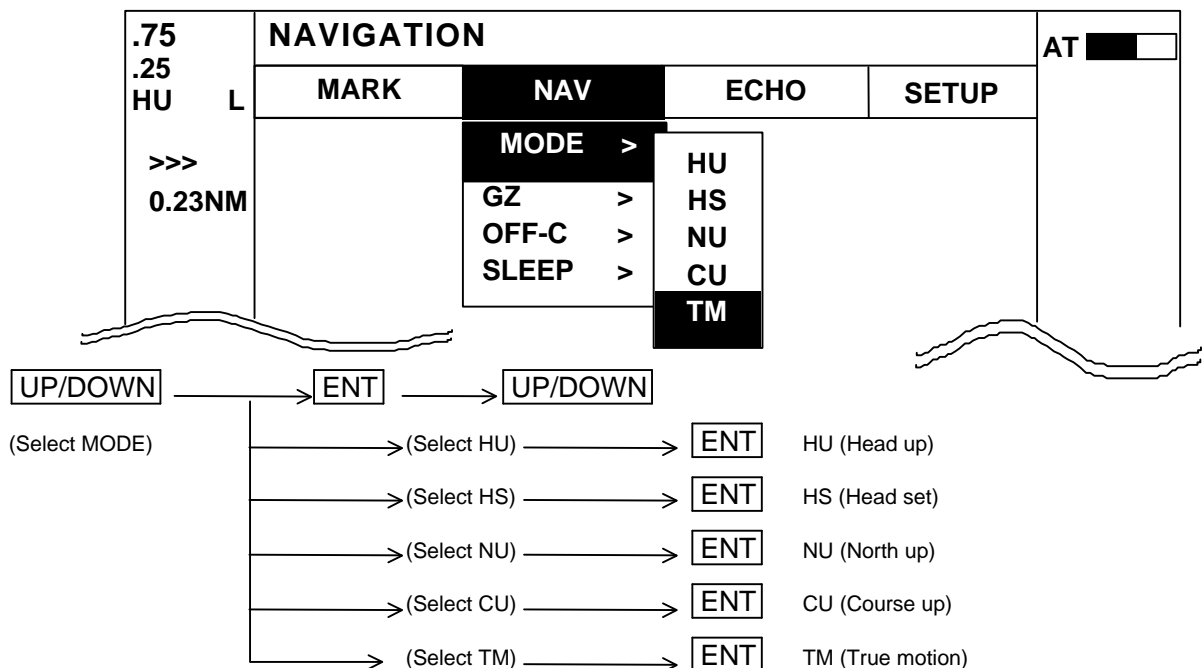
Press the "MENU" key and select "NAV" from the four displayed menus by using the left or right arrows on the cursor pad. The contents of the selected MENU will reveal beneath its name when it's highlighted.

MENU ⟶ Left/Right

(Select NAV)

5.5.2.1 Changing display mode (MODE)
(1) Select MODE from the pull-down display items using the up-down cursor key, and press the "ENT" key.
(2) When the selection box is displayed beside the MODE item, select the appropriate mode with the up-down cursor keys and press the "ENT" key.
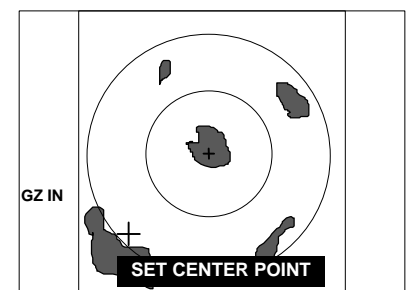(3) The display mode you selected will be shown at the upper-left of the screen.

```
.75   NAVIGATION                              AT ▭
.25
HU    L    MARK        NAV        ECHO      SETUP
              MODE    >  HU
  >>>        GZ      >  HS
  0.23NM     OFF-C   >  NU
             SLEEP   >  CU
                        TM
```

UP/DOWN ⟶ ENT ⟶ UP/DOWN

(Select MODE)
→ (Select HU) → ENT   HU (Head up)
→ (Select HS) → ENT   HS (Head set)
→ (Select NU) → ENT   NU (North up)
→ (Select CU) → ENT   CU (Course up)
→ (Select TM) → ENT   TM (True motion)

Note 1: Your radar must be connected to Heading information data source in order to use the NU, CU and TM modes.
2: In the TM mode you will either need NMEA speed data input present or you will have to manually input your boat's speed.
3: TM works only on PPI screen, NU is used automatically for the other screens.
4: EBL1 must be ON in order to use the HS mode.
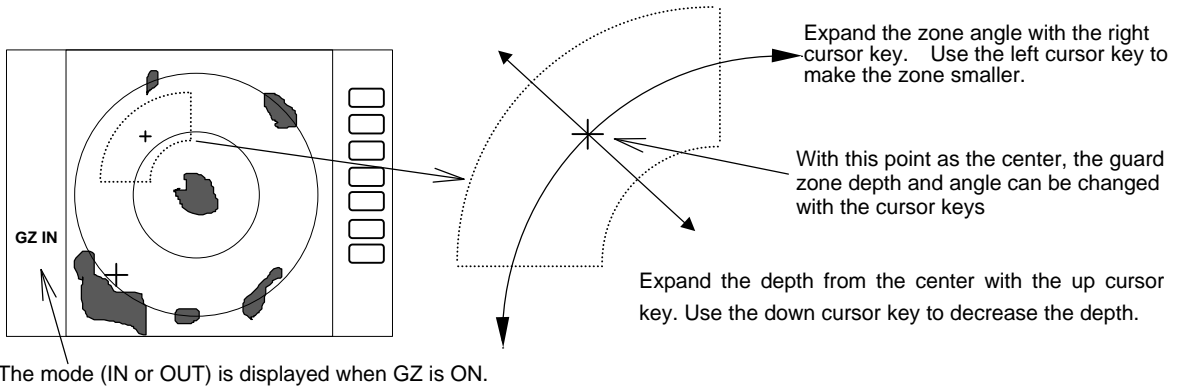
5.5.2.2 Guard Zone (GZ)
This function sets a guard zone around your boat of any distance and any angle range, and sounds an alarm when either echoes enter it or (IN MODE) leave it (OUT MODE). You can also select the sensitivity level to detect echoes entering or leaving the zone.
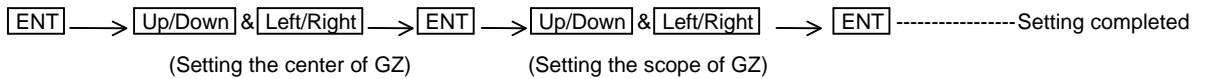

Setting guard zone

Up/Down ⟶ ENT ---------- ON/OFF sign is displayed.

(1) Select GZ from the NAV menu and turn it on.
(2) The mode setting will be displayed on the left side of the screen as GZ IN. A small cross cursor for setting the guard zone will show at the screen center, and "SET CENTER POINT" is displayed at the bottom.
(3) Use the up-down and left-right cursor keys to move the cross cursor to the center of the warning zone to be set, and press the "ENT" key.
(4) From the cross cursor position you set as the center, expand the guard zone as follows:

Expand the zone angle with the right cursor key. Use the left cursor key to make the zone smaller.

With this point as the center, the guard zone depth and angle can be changed with the cursor keys

Expand the depth from the center with the up cursor key. Use the down cursor key to decrease the depth.

The mode (IN or OUT) is displayed when GZ is ON.

(5) After setting the guard zone, press "ENT". To turn off the GZ function, use the menu or press the "GZ" soft key.

ENT ──→ Up/Down & Left/Right ──→ ENT ──→ Up/Down & Left/Right ──→ ENT ----------------Setting completed

              (Setting the center of GZ)   (Setting the scope of GZ)
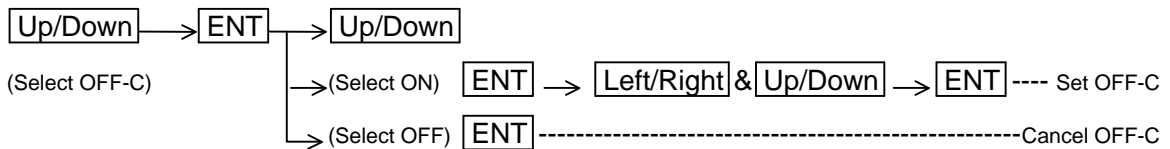
To turn off the alarm when it sounds, press any key except the "GZ" soft key to stop it. The guard zone function will remain on. To select between the IN or OUT mode, Go to the Menu and select SETUP>CUSTOM>PRESET2>GZ MODE. To adjust the level of detection, select a GZ LVL or 1 through 7 on the same menu screen.
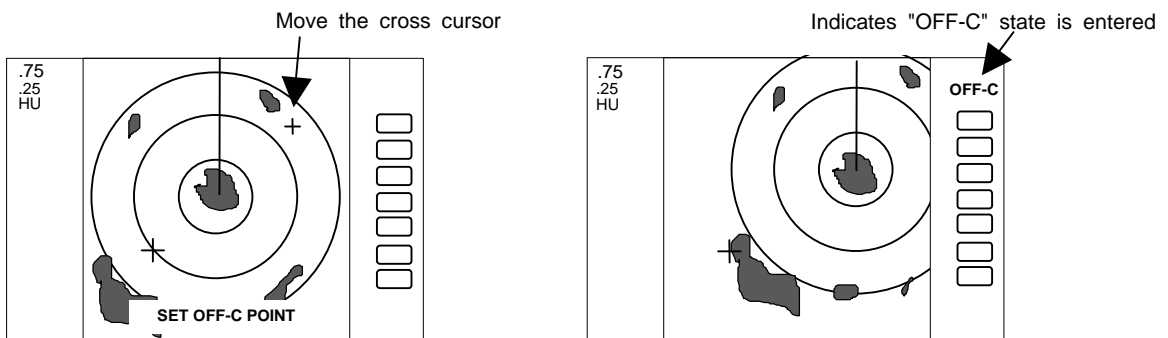
5.5.2.3 Off centering the screen display (OFF-C)

This function allows you to position the cross cursor at the boat's location off center to any point on the screen.
(1) Select OFF-C from the NAV menu and turn it on.
(2) OFF-C is displayed in the upper right corner and "SET OFF CENTER POINT" appears at the bottom of the screen. Move the cross cursor with the cursor pad to the intended location, and press the "ENT" key. Your boat's location will now be displayed at the cursor's location.
(3) To cancel the OFF-C function, use the menu or press the "OFF-C" soft key.

Up/Down ──→ ENT ──→ Up/Down

(Select OFF-C)   ──→(Select ON) ENT ──→ Left/Right & Up/Down ──→ ENT ---- Set OFF-C

                              ──→(Select OFF) ENT ---Cancel OFF-C

Note : FL VRM2 and FL EBL2 start point do not follow the OFF-C function. They are fixed to the set point on the screen.

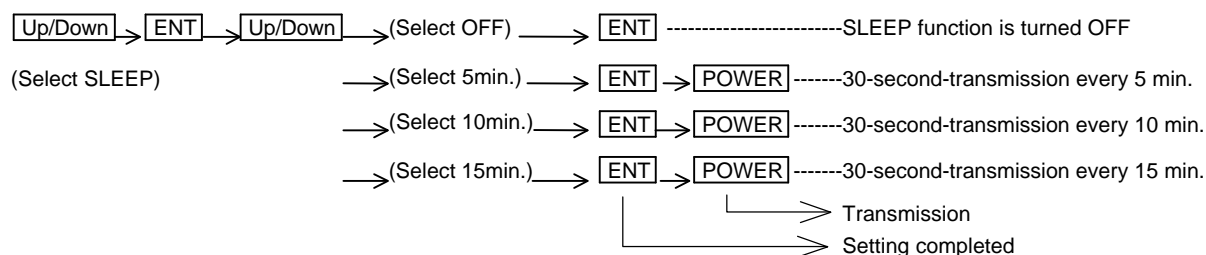
Move the cross cursor

Indicates "OFF-C" state is entered

5.5.2.4 Setting of the SLEEP function (SLEEP)

The SLEEP function allows you to initiate a 30-second transmission at predetermined intervals, then allow the radar to go into standby mode and make the display go dark to conserve power. You can set the "SLEEP" function for a 5-, 10- or 15-minute interval. Two minutes before a specified transmission time, the screen backlighting turns on and the warm-up timer starts.

The transmitter will then run for 30 seconds and shut down.   The sequence repeats continually until you override it by pressing any key on the keypad.

To turn on the SLEEP function go to the NAV menu, select SLEEP, then select the time interval.

Up/Down → ENT → Up/Down → (Select OFF) → ENT -----------------------SLEEP function is turned OFF

(Select SLEEP)   → (Select 5min.) → ENT → POWER -------30-second-transmission every 5 min.

                      → (Select 10min.) → ENT → POWER -------30-second-transmission every 10 min.

                      → (Select 15min.) → ENT → POWER -------30-second-transmission every 15 min.

                                           ⌐——→ Transmission
                                        ⌐————————→ Setting completed

Action after setting

SLEEP setting (5min.)   (Operation)
↓

↑(Under Tx)↑   (Under power-saving mode)   ↑   (2min. timer in use)   ↑(Under Tx)   ↑ (Under power-saving mode)

0 sec.   30 sec.   3 min.   5min.   5and a half min.   (Time used)
TX Start   TX OFF   Backlight ON   Tx Start   TxOFF   (Action)
                                             Countdown start

What happens if a key is pressed after a SLEEP mode setting?
a)   If a key is pressed during the power-saving mode, the SLEEP function is canceled and the 2-minute timer starts.
b)   If a key is pressed while the 2-minute timer is in use, or during transmission, the SLEEP function is canceled.

What happens if a key is pressed during the SLEEP mode?
a)   If you press a key during the power-saving mode, the SLEEP function will be canceled and the 2-minute timer starts.
b)   If you press a key while the 2-minute timer is in active, or during transmission, the SLEEP function will be canceled.

5.5.2.5 Activating Automatic Tracking Aid (ATA)

This function allows you to automatically track up to ten targets and determine their distance and bearing. You can also set an alarm to sound if any are on a collision course with your boat.   It can only be used in the PPI or ALL PPI mode. If ATA is turned on and you switch to another mode, target tracking will continue, but you will not see ATA symbols or data on screen.

Setting	Initial Value
CPA SET	3.0 NM
TCPA SET	3 MIN
VECT SET	6 MIN
VECT MODE	TRUE
ATA	ON

Before using ATA, you must set its parameters. They are found in the MENU under SETUP>CUSTOM>ATA PRESET.

(1)   Set the CPA to the closest point of approach you want to be before the alarm sounds.
(2)   Set the TCPA to the minimum time to collision you want before the alarm sounds.
(3)   Set the time length of the vector showing the target's course.
(4)   Select between a relative or true vector.
(5)   Turn the ATA function on or off.
To activate the ATA function, once parameters are set:
(1)   Select a target to track by placing the cursor directly on it.
(2)   Under the NAV menu, select ACQ and press "ENT".   The target will be identified by a number from 0 through 9 and a vector showing its course will appear on screen.
(3)   If you want CPA and TCPA data displayed on screen, select "ON" from the "DATA" menu item.
(4)   If you have several targets displayed and you would like to track, select a vacant number with "TGT NUM" function. The number using is displayed upper right on the screen. Select "TGT NUM" from the Menu then press "ENT". Reverse character of the target number will move to next position. Then, repeat from (1) to (4).
(5)   To discontinue tracking a target, select the target number with "TGT NUM" function, then select "DEL" from the menu.   To discontinue tracking all targets, select "ALL DEL".