5.5 MENU Operation

List of MENU

List	of	Main	Menu

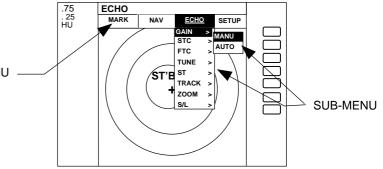
MA (MAIN-			(MA	NA <u>IN-I</u>	V MEN	U)	(N		HO MENU)	(M	SETUP AIN-MENU)
EBL1 VRM1	ON ON	OFF	MODE	ТМ	_	NU CU	GAIN STC	AUTO AUTO HARB	MANU OR	WINDOW	PPI SEMI3D/PPI PPI/PPI PPI/NAV ALLPPI ALL PPI/PPI MOB
EBL2 VRM2 FL EBL2 FL VRM2	ON ON ON	OFF OFF OFF	GZ OFF-C SLEEP		-	10min	FTC TUNE ST TRACK	AUTO AUTO OFF OFF	-	SEL WIN PICTURE SYSTEM CH	DAY NIGHT
HDG OFF	OFF		ACQ	(*1)	•		INACIA	1MIN CONT	3MIN 6MIN	CUSTOM	KEY ASSIGNMENT PRESET1
///CSR RINGS	ON ON	OFF OFF	DATA DEL	ON (*1)	OFF (*1)	ZOOM SL	ON (SHOR	OFF TLONG	_	(SUB-MENU) PRESET2
VAR RNG TARGET	ON	OFF	TGT NUM ALL DEL	(*1) (*1)						_	(SUB-MENU) NMEA PRESET ADJUST (SUB-MENU)
+MK LINE	ON	OFF									ATA PRESET (*1)

List of Custom Menu

PRESET1 (SUB-MENU) PRESET2 (SUB-MENU) ON OFF HM FLSH GZ LEVEL 1-7 STERN M ON OFF GZ MODE IN OUT NORTH M ON OFF HOLD ON OFF ST'BY NAVI NOR DISPLAY RDR MONI NAV OFF LOW HIGH OFF CONT INT BUZ VOL EXT BUZ **RM UNIT** NM KM SM IN P/R 1080 1024 2048 4096 360 DEPTH M FT FM OUT P/R 1080 1024 2048 4096 360 °C °F TEMP DEMO ON OFF REL TRUE MAG EBL BRG IR OFF IR1 IR2 WP BRG TRUE MAG SPD SET NMEA MANU 0.0 KT LOG 200P HEAD INPUT NMEA SIN/COS 12BIT 10BIT LANGUAGE 16 countries STD HIGH TRUE MAG HEAD SCAN SPEED +MK MODE DIST/BRG LAT/LON COLOR MONO MULTI 0 – 2 P TABLE

ADJUST (SUB-MENU)						
TIMING ADJ						
HEAD ADJ						
TUNING CAL.						
ANTENNA	1-9					
GAIN	1-30					
STC	1-16					

MAIN-MENU -



(*1): For ATA

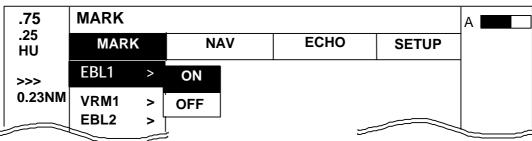
5.5.1 Mark Menu

Press the "MENU" key and select "MARK" 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.

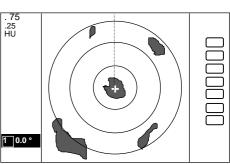
MENU ----> Left/Right

(Select MARK)

- 5.5.1.1 Bearing measurement (EBL1)
- (1) Select EBL1 from the pull-down display items using the up-down cursor key, and press the "ENT" key.
- (2) When the ON/OFF box is displayed beside the EBL1 item, select ON with the up-down cursor keys and press the "ENT" key.



- (3) When the "ENT" key is pressed, electronic bearing line (EBL1) appears and the angle from the direction of the boat's heading will appear in a highlighted display at the lower left of the screen. The displayed EBL angle is either relative to your heading, true or magnetic north, depending on the setting of "EBL BRG" in the "SETUP>CUSTOM>PRESET1" menu.
- (4) Rotate the control knob until the line is at the center of the target and read the bearing. Press "ENT" or another function key and the EBL will remain onscreen. To remove it, either use the menu or press the EBL1 soft key.



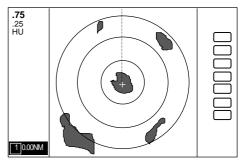
xxx = keys to press

Note: 1 xxx.x indicates the relative bearing measured by EBL1.

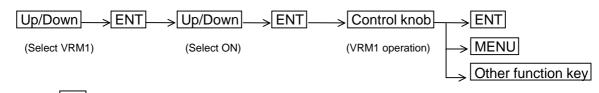
Up/Down→EN	IT → Up/Down → EI	NT → Control knob —	>ENT
(Select EBL1)	(Select ON)	(EBL1 operation)	—> MENU
			Other function key

5.5.1.2 Determining distance (VRM1)

- (1) Select VRM1 from the pull-down display items using the up-down cursor key and press "ENT" key.
- (2) When the ON/OFF box is displayed beside the VRM1 item, select ON with the up-down cursor keys and press the "ENT" key.
- (3) When the "ENT" key is pressed, the variable range marker1 (VRM1) appears and the distance from it to the boat will appear in highlighted characters at the lower left of the screen.



(4) Using the control knob, change the size of the ring until you place the marker on the front edge of the target. Read the distance. Press "ENT" or another function key and the VRM will remain onscreen. To remove it, either use the menu or press the VRM1 soft key.



Note: 1 xx.xx NM indicates VRM1.

5.5.1.3 Bearing measurement (EBL2)

Use the same procedure for placing EBL1. The angle measurement will appear in highlighted characters at the lower right of the screen.

Note: 2 xxx.x indicates EBL2.

5.5.1.4 Determining distance (VRM2)

Use the same procedure for placing VRM1. The distance measurement will appear in highlighted characters at the lower right of the screen.

Note: 2 xx.xx NM indicates VRM2.

5.5.1.5 Measuring the distance between two points (VRM2, FL VRM2)

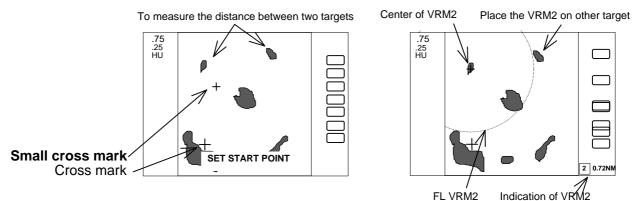
- (1) Select FL VRM2 on the MARK menu and press the "ENT" key.
- (2) Select ON from the ON/OFF box and press "ENT". "SET START POINT" is displayed and a small cross mark appears.

Up/Down	\rightarrow ENT \rightarrow Up/Down \rightarrow ENT	FL VRM2 is turned ON and the small cross
(Select FL VRM2)	(Select ON)	mark appears.

(3) Use the left-right and up-down cursor keys to place the cross mark on one of the two echoes whose distance will be measured, and press the "ENT" key.

Up/Down & Left/Right - \rightarrow ENT ------ Criterion of the reference point is set. (Place the cross cursor on an echo)

- (4) Select VRM2 from the menu as described previously or press the "VRM2" soft key. Rotate the control knob until it is on the second echo, then read the distance between the two echoes or points in the highlighted text at the lower right of the screen



Note: FL VRM2 center do not follow to the "ZOOM" and "OFF-C" modes.

5.5.1.6 Measuring the angle between two points (EBL2, FL EBL2)

- (1) Select FL EBL2 on the MARK menu and press the "ENT" key.
- (2) Select ON from the ON/OFF box and press "ENT". "SET START POINT" is displayed and a small cross mark appears.

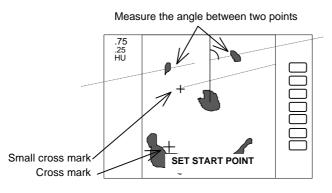
Up/Down -> ENT -> Up/Down -> ENT --------- FL EBL2 is turned ON and the small cross mark appears. (Select FL EBL2) (Select ON)

(3) Use the left-right and up-down cursor keys to place the small cross mark on one of the two echoes whose angle will be measured, and press the "ENT" key.

```
Up/Down & Left/Right
                           → ENT
                                      ----- Criterion of the reference point is set.
```

(Place the cross cursor on an echo)

(4) Select EBL2 from the menu as described previously or press the "EBL2" soft key. Rotate the control knob until it is on the second echo, then read the angle in the highlighted text at the lower right of the screen. The angle is relative to either the boat's heading, true or magnetic north, depending on the setting of "EBL BRG" in the "SETUP>CUSTOM>PRESET1" menu.



5.5.1.7 Erasing heading marker temporarily (HDG OFF)

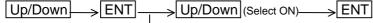
- (1) Use the up-down cursor key to select HDG OFF from among the pulled down and displayed items.
- (2) Press the "ENT" key. The heading marker is not displayed as long as you hold down the "ENT" key.

 $Up/Down \rightarrow ENT$ The heading marker is off as long as you press and (Select HDG OFF) hold the "ENT" key down.

5.5.1.8 Using parallel cursor (///CSR)

Normally the EBL is used to measure the exact bearing from the position of your boat to a target. However, you can also use parallel cursors.

- (1) Select ///CSR from the MARK menu, press "ENT" and select ON.
- (2) Press the "ENT" key. Parallel cursors will appear on the screen. As you move the EBL, the parallel cursors will also rotate.
- (3) To cancel the ///CSR function, either select OFF in the menu or press the ///CSR soft key.



(Select ///CSR)

Up/Down (Select OFF) ENT Parallel cursor disappears.

Note: Interval of ///CSR is same as fixed range marker. ///CSR moves with EBL1.

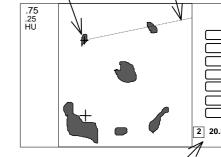
5.5.1.9 Establishment of the indication of the RANGE RINGS (RINGS)

- (1) Select RINGS from MARK menu and press the "ENT" key.
- (2) Use the up-down key to select ON or OFF and press the "ENT" key

Up/Down ENT	Up/Down (Select ON)	── > ENT Range rings appear.
(Select RINGS)	Up/Down (Select OFF)	> ENT Range rings disappear.

Number of range rings and range interval

Radonie antenna (RAST)											
Range	0.125	0.25	0.5	0.75	1.5	3	6	12	24	36	
Number of Rings	2	2	2	3	6	6	6	6	6	6	
Interval	0.0625	0.125	0.25	0.25	0.25	0.5	1	2	4	6	
Open antenna (RA52)											
Range	0.125	0.25	0.5	0.75	1.5	3	6	12	24	48	
Number of Rings	2	2	2	3	6	6	6	6	6	6	
Interval	0.0625	0.125	0.25	0.25	0.25	0.5	1	2	4	8	
Open antenna (RA53)											
Range	0.125	0.25	0.5	0.75	1.5	3	6	12	24	48	64
Number of Rings	2	2	2	3	6	6	6	6	6	6	4
Interval	0.0625	0 125	0.25	0.25	0.25	0.5	1	2	4	8	16

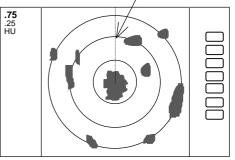


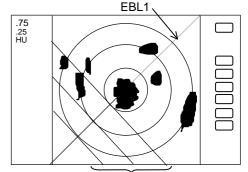
Origin of EBL2

Indication of EBL

FL EBL2







Parallel cursor

Parallel cursor appears.

RA51/52/53/54/55 INSTRUCTION MANUAL - 05

Open antenna (RA54)												_
Range	0.125	0.25	0.5	0.75	1.5	3	6	12	24	48	72	
Number of Rings	2	2	2	3	6	6	6	6	6	6	6	
Interval	0.0625	0.125	0.25	0.25	0.25	0.5	1	2	4	8	12	
Open antenna (RA55)												
Range	0.125	0.25	0.5	0.75	1.5	3	6	12	24	48	96	120
Number of Rings	2	2	2	3	6	6	6	6	6	6	6	6
Interval	0.0625	0.125	0.25	0.25	0.25	0.5	1	2	4	8	16	20
.75 .25 HU					.75 .25 HU	5	y,t	•	ļ			

Range rings ON

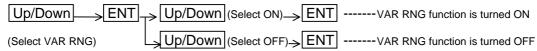
Range rings OFF

5.5.1.10 Variable range function (VAR RNG)

Using the "RANGE UP" and "RANGE DOWN" buttons changes the displayed range in small predetermined increments. The VAR RNG function allows you to make the change in 0.1 NM increments using the up and down arrows on the cursor pad.

- (1) <u>Select VAR RNG from the MARK menu press</u> "ENT", then turn on the function.
- (2) VAR will be displayed at the upper left of the screen beside MODE.

Setting procedure



Method of use

Up/Down ------Range changes continuously

RANGE UP & RANGE DOWN ------Range changes in step

(3) To cancel the VAR RNG function, turn it off using the menu or press the "VAR RNG" soft key.

5.5.1.11 Output the position of the cursor location to another NMEA device (TARGET).

- (1) Turn on the TARGET function in the MARK menu
- (2) Using the cursor pad, move the cursor cross so it is directly over the position you would like to send to another navigation unit.
- (3) When you press "ENT" the latitude and longitude data of the position will be output to the NMEA port in TLL format.

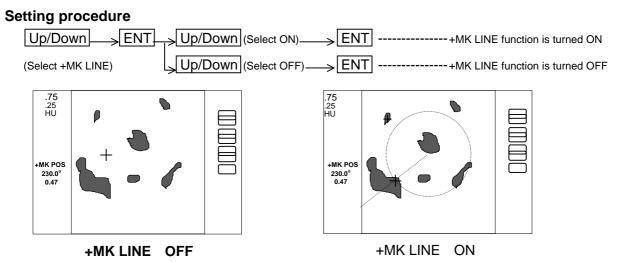
Up/Down ______ ENT -----Output the L/L position of the cursor

(Select TARGET)

Note: When you activate this function, nothing happens onscreen.

5.5.1.12 Determine the distance and bearing to a marker (+MK LINE).

- (1) Select +MK LINE from the MARK menu and turn it on.
- (2) A variable range marker and an electronic bearing line will appear onscreen. A cross marker will be at their intersection. This is the mark position.
- (3) The variable range marker and the electronic bearing line will follow the cross marker with the Up/Down and Left/Right cursor pad control. Use them to place the cross marker over the position to which you want to determine range and bearing.
- (4) The data will be displayed in the lower left corner of the screen.
- (5) Turn off the function using the menu or press the "+MK LINE" soft key.



The distance/bearing marker follows to cross cursor. EBLs and VRMs can be used separately.