## **KODEN MDC-2200/2500 series Quick Reference**

## **MENU TREE**

	MARKER				
	ECHO				
	NAV				
	ALARM				
	ATA/EPA				
	AIS				
	CHART			7	
	DATADISP		STAB	SEA, GND	
	STARTUP		MAN SET	0.0 to 359.9°	The tidal bearing ne
+ 1			MAN DRIFT	0.0 to 100.0 kn	The tidal speed need
RANGE RINGS	OFF, ON	RANGE RINGS is the marker to display fixed distance from own ship position.	VECTOR	OFF, 30s to 60min	The length of vector
BRG TRUE/REL	REL, TRUE	Ship's heading as 0 at REL and the true north as 0 at TRUE.	TRUE/REL	REL, TRUE	REL: Display of ve
BIG INOL/NEE	EBL2/VRM2, PI				
MARKER SEL		Selection of operation at pushing of EBL2 and VRM2 keys.			TRUE: Display of t
	* MDC-2200 series only		NAVLINE	OFF, ON	Line generated by
	NORMAL, 1 to 7	NORMAL: The same number of parallel index lines as Range rings is displayed.	BLOCK NO	1 to 20	
PI DISPLAY SIDE	ONE, BOTH	Selection which side of the own ship to display parallel index lines.	BLOCK CLEAR	CANCEL, CLEAR	
CURSOR	OFF, ON, L/L	OFF: Cursor is displayed only when joystick is operated.	DETECT	OFF, ON	When the own ship
VRM1 UNIT	NM, km, sm, RANGE LINK	RANGE LINK:[ECHO] => [RANGE UNIT] same as setting value	SETUP	LAT, LON, CLEAR	Up to 50 points is
VRM2 UNIT	NM, km, sm, RANGE LINK	RANGE LINK: [ECHO] => [RANGE UNIT] same as setting value			
				Sotting -> ON -> OFF	
PI UNIT	NM, km, sm, RANGE LINK	RANGE LINK: [ECHO] => [RANGE UNIT] same as setting value	GUARD ZONE	Setting => ON => OFF	
STERN MRK	OFF, ON	Display stern marker in opposite side of heading line.	LIM CPA	0.0 to 19.9 NM	Set up CPA.
CURSOR SHAPE	Select cursor shape	Selection from 22 types.	LIM TCPA	1.0 to 63.0 min	Set up TCPA.
<b>TRACKING CURSOR</b>	OFF, ON	Cursor moves on the target nearest intersection of EBL1 and VRM1.	ATA BUZZER	OFF, ON	An alarm sound re
	OFF, ON	When H UP mode, cursor moves in response to the change of ship's bearing.	AIS BUZZER	OFF, ON	An alarm sound relat
VRM/EBL CROSS	OFF, ON	A small [0] is displayed at intersection of EBL and VRM.	ALARM1	Setting => ON => OFF	
	OFF, ON	Display bearing scale on the circumference of effective radar screen.			
SCALE		Display bearing scale on the circumierence of enective radar screen.	DETECT	IN, OUT	IN: Alarm sounds
CHARA	OFF, ON			_	OUT: Displays alar
	IN, OUT	Selection which side of the circle to display bearing and scale.	DETECT LVL	1 to 7	A signal level to de
CHARA TYPE	NUMERIC, SYMBOL	Selection of display format of bearing. SYMBOL: N, E, W, S	AREA	VARIABLE, FIXED	VARIABLE: Alarm ar
HL BLINK	OFF, ON	Heading line blinks at every rotation of antenna to prevent the line from hiding the image.	ALARM2 DISP	OFF, ON	Arbitrary shapes a
GUARD LINE	OFF, ON => Set L/R	Lines are displayed at both sides of own ship to serve for safety navigation.	BLOCK NO	1 to 20	, ablaal y chapee a
	OFF, ON				
OS OUTLINE		The simple own ship's profile designated at OS PROFILE is displayed.		CANCEL, CLEAR	
	4-point settings	The simple own ship's profile is designated.	DETECT	OFF, IN, OUT	Same as [ALARM
SHIP'S PROFILE	OFF, ON, Set profile (50-point settings)	The details of own ship's profile are designated and displayed or hidden.	DETECT LVL	1 to 7	Same as [ALARM
<b>↓</b>			SET UP	LAT, LON,	Up to 50 points is
MODE	H UPRM, C UPRM, C UPTM, N UPRM, N UPTM	Selection of 5 types of mode.		DIVIDE, CLEAR	
TRAILS	OFF, CONTINUE, 30s to 48min			1 , -	
MODE	TRUE, REL	TRUE: Actual trails of images are displayed.	ATA/ EPA TYPE	ATA/EPA	Select ATA function
MODE					
		REL: Trails of images seen from the own ship are displayed.	ACQ	-	Move cursor to po
	BLUE, RED	Selection of trail color from blue or red.	DELETE	_	Move cursor to po
SHAPE		Selection of trail display shape from 3 kinds.	ALL DELETE		Delete all acquired
RANGE KEEP	OFF, ON	Trails is sustained without being deleted when the range is changed.	MAN ACQ NO	0 to 50	Manual ACQ = Nu
TIME KEEP	OFF, ON	Trail time is changed, the trail equivalent to the time set is displayed	AUTO DETECT	Setting => ON => OFF	A sector alarm are
TRUE MOVE	COURSE, POSITION	Trail movement standard for true trail calculation. For position, lat/lon must be input.	TARGET ID	OFF, ON	ID display of acqui
REL MODE	HDG, TRUE	Selection of signal as criteria to record trails. (Trail mode: REL)	ID SIZE	SMALL, MID, LARGE	
DETECT LVL	1 to 6	Image level setting to be recorded as trail 1 (weak) to 6 (strong).	TARGET SELECT	U to 49	Select target numb
IR	OFF, 1 to 5		EPA UPDATE	_	Manual update of
PROCESS	OFF, 1 to 3		DATA STYLE	B/R, L/L	Display format of t
DAY/NIGHT	DAY, NIGHT	* MDC-2200 series only		-	
ECHO COLOR D	WHITE, YELLOW, GREEN, MULTI	•	To be display	ved when AIS board is	mounted
ECHO COLOR N	WHITE, YELLOW, GREEN, MULTI				mountour
BACK COLOR D	DARK BLUE, BLACK, SKY BLUE, BLUE			OFF, ON	
BACK COLOR N	DARK BLUE, BLACK, SKY BLUE, BLUE		TARGET ID	OFF, NUMBER, NAME, BOTH	•
ZOOM		Enlarged image in 1 lower range is displayed centering around cursor.	TARGET SELECT	100 to 299	Select target when disp
TM RESET		In C UP <sub>TM</sub> or N UP <sub>TM</sub> mode, the own ship's position is reset.	LIMIT	1.0 to 20.0 NM	Outside of a set ar
TM RESET POSI	OPPOSITE, COURSE, CENTER		LOST	OFF, ON	Setup lost alarm d
HOLD	,	The image is held for max. 30 sec. and "HOLD" blinks at upper right side.	SLEEP	OFF, A, B, BOTH	Setup sleep symbol
SECTOR					
	OFF, 1, 2	The angle with the obstacle can be untransmitted.	CLASS B	OFF, ON	Setup class B targ
RANGE UNIT	NM, km, sm	A range unit is designated.	ATON	OFF, ON	Setup ATON targe
<b>ROTATION MARGIN</b>	0.0 to 30.0°	An angle at which images start rotating is designated.	SART	OFF, ON	Setup SART targe
ROTATION SPEED	1 to 50	A speed at which the image rotates is designated.	BASE	OFF, ON	Setup BASE targe
ALL PPI	OFF, ON	Images can be displayed also outside of bearing scale.		0.0 to 20.0 NM	Setup the area to
OFF CENT POSI	COURSE, OPPOSITE			1	

necessary for stabilization on sea is manually designated. necessary for stabilization on sea is manually designated. ectors for ATA/EPA/AIS or own ship, is set up. vectors of targets seen from own ship. of true vectors of targets. by input of arbitrary latitude/longitude.

hip's image crosses a NAVLINE, alarm will be issued. is settable in one block.

rea is set up during "Setting".

related to ATA set up.

lated to AIS set up. \* It is displayed only when AIS is equipped. area is set up during "Setting".

s when targets enters into alarm setting area.

larm indication targets leaves from the alarm setting area. detect target within alarm area is set up.

area is freely settable. FIXED: Starts setting by 90 degree step. and locations is settable in contrast to ALARM1.

M1 DETECT]. M1 DETECT LVL]. is settable in one block.

tion or EPA function. point target to be acquired by using Joystick. point target to delete by using Joystick. red targets. Number of ACQ (50) - Auto ACQ area is set up during "Setting". quired/tracking targets irget ID. mber to perform display or delete. of EPA. f target locations when ATA is [DATADISP] => [DISP\*]. (\* : 1, 2 or 3)

splay from Number, ship name, both (number/ship name), OFF. isplaying detailed AIS information in data display area at lower screen. area is not displayed.

display for lost display.

bol display.

rget symbol display.

get symbol display.

get symbol display.

get symbol display.

o switch sleep target to active automatically.

KODEN	MDC	-2200/2500	series Quick R	Reference MENU TREE
MARKER	1			
ECHO	-			
NAV ALARM	_			
ATA/EPA	-			
AIS				
CHART		NOUNDT		
DATADISP STARTUP		CHART     PAST CRS	OFF, ON * Displays only whe	en C-MAP card is inserted.
STARTO	J	SETUP		
			OFF, DISP, OWN, ATA, AIS	ATA: After setting, point a cursor on an acquired/tracking target by ATA and then push
				For the recording target, the number of trail recorded will be displayed as " / " at the right
				also displayed at the side of the number of trail.
			OFF, CONTINUE, 15s to 12min	Set up track-memory interval (time).
		CLEAR 1-30	CANCEL, CLEAR	Delete memorized track.
		WPT/ROUTE	OFF, ON	Effective only when way point/route information are input from external devices.
		MARK	OFF, ON	20 blocks mark input function and 50 points input per each block is capable.
		BLOCK NO	1 to 20	Select block number of mark display.
			CANCEL, CLEAR	Delete unnecessary mark data.
		LINE SHAPE	OFF, ON	Point a cursor on a mark displayed and push "ENT" key, then the position of own ship a
		OWN		Select mark shape from 18 types. Input mark on own ship position.
		CURSOR	-	Input mark on cursor position.
		SETUP	1-50	Input mark by LAT/LON.
		DISP ALL	OFF, ON	All marks for total 20 blocks are displayed.
		CHART SELECT	JAPAN, GLOBAL	Select global chart in English mode automatically.
		CHART DISP SET NAV ALIGN MODE	OFF, MANUAL, SERIAL	Chart setting: color, place name, liqhthouse, buoy, etc. <b>* Displays only when C-M</b> Manual and serial signal methods are available for position compensation.
		NAV ALIGN MODE	-1.000 to 1.000	Correction for latitude of chart display.
		NAV ALIGN LON	-1.000 to 1.000	Correction for longitude of chart display.
		WPT/ROUTE ID	OFF, ON	Effective only when way point/route information are input from external devices.
		WPT FLAG	OFF, ON	Effective only when way point/route information are input from external devices.
			COAST LINE, GPS BUOY	Selection of function to produce coast line by itself or to display GPS buoys.
		COAST LINE GPS BUOY		Can generate 50-point x 20 blocks. Can record 10-ID x 100-time, position, water temparature, etc.
			1	
		UPPER DISP		OP, SET/DRIFT, DEPTH/TEMP,WPT LAT/LON,
				/ECTOR, OFF, select from 12 items.
		LOWER DISP BACK DISP1		Setup background of lower screen display area.
		DISP1 DISP2		A/EPA, AIS, NAV, AIS DETAIL1, AIS DETAIL2
		DISP3		VEPA, AIS, NAV, AIS DETAIL1, AIS DETAIL2
		PROTECT CANCEL	- , - , - , , ,	
		(OR) PROTECT		
			AUTO, MANUAL 0 to 255	Select tuning method. Auto tune setting.
			0.0 to 100.0	Manual tune setting.
		BRG ADJ	-180.0 to 180.0°	Adjust calibration of actual image bearing to align to bearing on the rader screen.
		TX DELAY ADJ	0 to 255	,
			0 to 15	
		F1 KEY SET		EL, DAY/NIGHT, MODE, TRAILS, IR, PROCESS, ZOOM, E/REL, ALARM1, GUARD ZONE, ACQ, DELETE,
				TARGET, UPDATE, CHART, MARK OWN, MARK CURSOR,
			TLL OUT, UPPER DISP, VIDEC	
		F2 KEY SET	Same as F1 key setting	DIS
		F3 KEY SET	Same as F1 key setting	* MDC-2500 series only
		RAIN KEY SET	Same as F1 key setting	
		SEA KEY SET	Same as F1 key setting	
		GAIN KEY SET	Same as F1 key setting	

 GAIN KEY SET
 Same as F1 key setting

 It is necessary to release protection to display those functions.

sh [ENT] key to start recording and display. right side. On the menu, the number of target will be

ip and the mark will be connected with a dotted line.

-MAP card is inserted.

