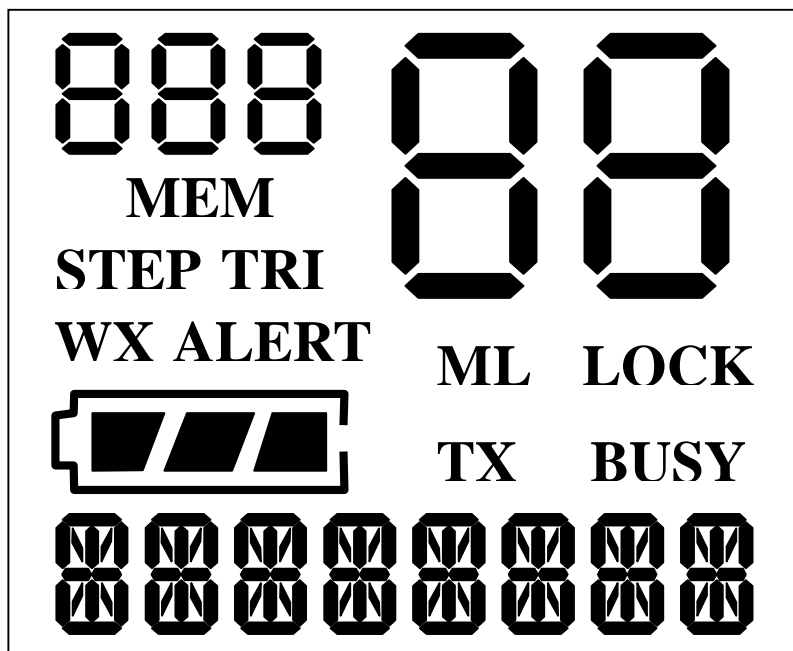


WM 200 Operation Manual Guide

. LCD Description



... **888** USA / CANADIAN / INTERNATIONAL display segment

... **00** Channel Number display segment

... **MEM** Each Channel Scan Memory status display icon

... **STEP** Each Channel step status display icon

... **TRI** Triple Watch status display icon

... **WX** Weather mode status display icon

... **ALERT** Weather Alert option status display icon


... **M** Tx Output Power Mid (1W) state display icon

... **L** Tx Output Power Low (0.5 W) state display icon

... **LOCK** Key-PAD Lock status display icon

... **TX** Transmit now display icon

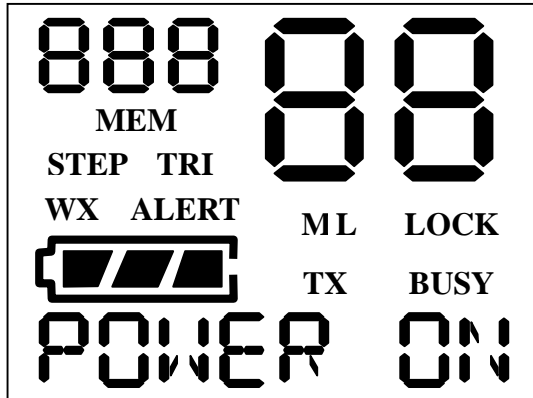
... **BUSY** Receive now display icon

...  Battery Level display icon

...  Channel Name or Radio condition display segment

. Power On

Rotate Power/Volume Knob clockwise till it sounds “tick” to power on.
When Power is on, the last used Country mode (USA / INT / CAN) and last used channel will be displayed with last set Tx Power H/M/L, Key Lock, Squelch Level and etc.



** Power On display

. Volume Control

Rotate volume knob clockwise to increase volume.
To reduce volume, rotate the knob counterclockwise.

. Channel Selection

To change channel, press Up or Down Key.

** If pressing and holding Up or Down Key, channels are changing rapidly.



Ex) Change to Channel 16

** Bottom Line Slide

“DISTRESS,SAFETY,CALLING”

** Bottom Line display

“DISTRESS”

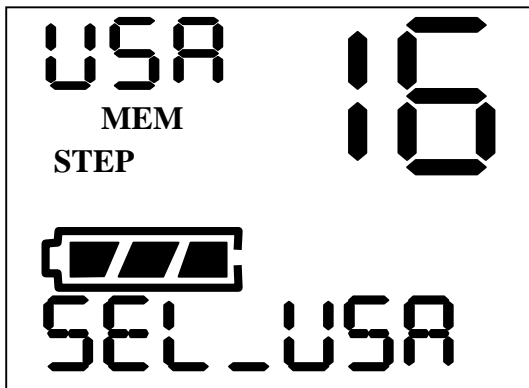
** When channel is changed, the Channel Full Name is scrolled and then it display an abbreviated word.

. USA / CANADIAN / INTERNATIONAL Country mode

Press U/I/C key within 1 sec, then it will change USA → INTERNATIONAL → CANADIAN in turn.

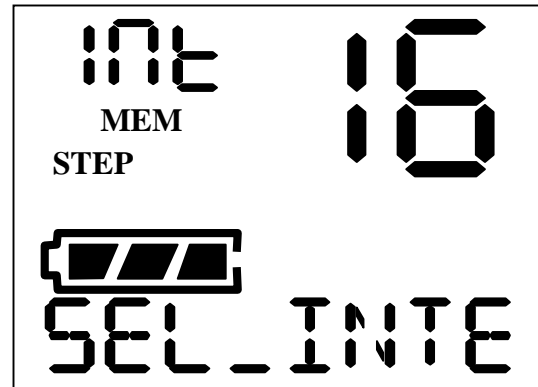
** When Country mode is changed, TX/RX channel is changed to Channel 16.

**** USA mode display**



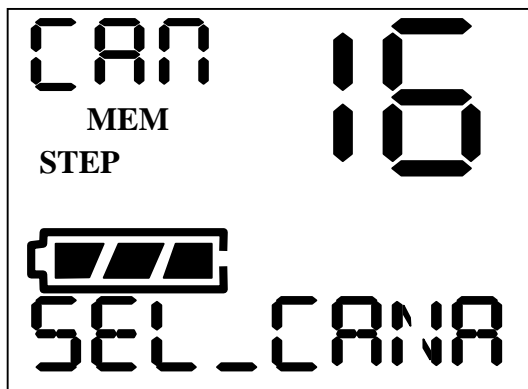
Bottom Line display 3 sec “SEL_USA”

**** INTERNATIONAL display**



“Bottom Line Slide “SEL_INTERNATIONAL”

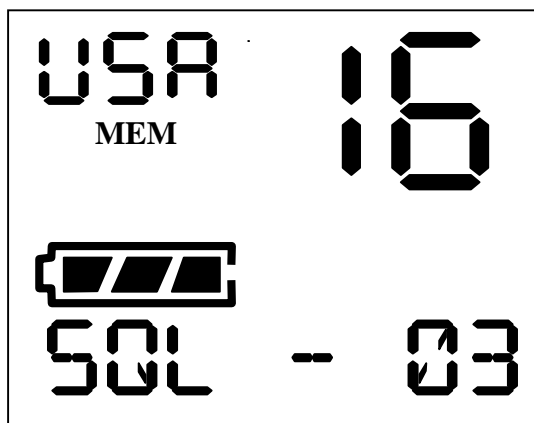
**** CANADIAN display**



Bottom Line Slide “SEL_CANADIAN”

. Squelch Level Setting

Press SQL (U/I/C) Key for over 2 seconds to enter Squelch Level setting mode.



Ex) Squelch Level is 03

Bottom Line display “SQL -- 03”

In the above, squelch level can be adjusted by Up or Down key.

(Total 9 level: 0 ~ 8)

Level 0 is squelch open regardless of RF condition.

On the above, if there is no key is pressed for 3 sec, it goes to Receive stand by mode.
(Channel name display 상태)

. Name display

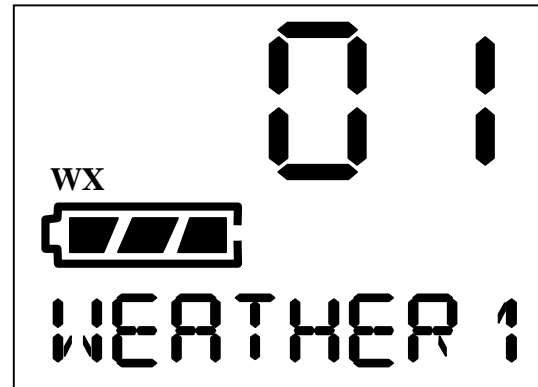
Channel Name will be shown on the display in RX or RX stand-by mode.

** 예) USA mode Channel 16



Bottom Line display “DISTRESS”

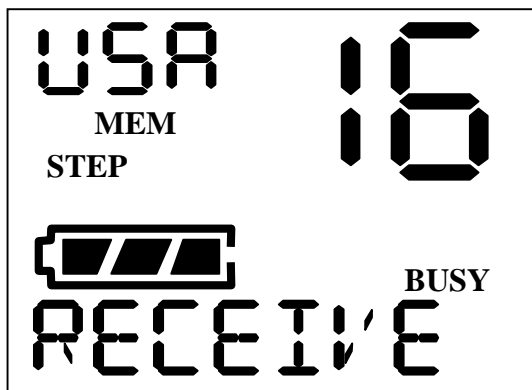
** WX Channel 1



Bottom Line display “WEATHER1”

. Receive operation

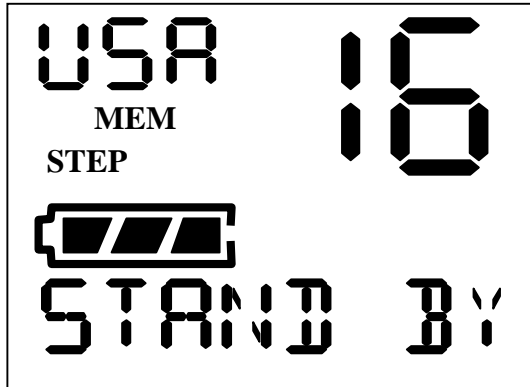
When the radio receives the signal, the display will be as under and the radio will open the speaker to listen to the call.



Bottom Line display 3 sec
“RECEIVE”

** Receive Out operation

When receive signal stops, it will display as under and lock the speaker.

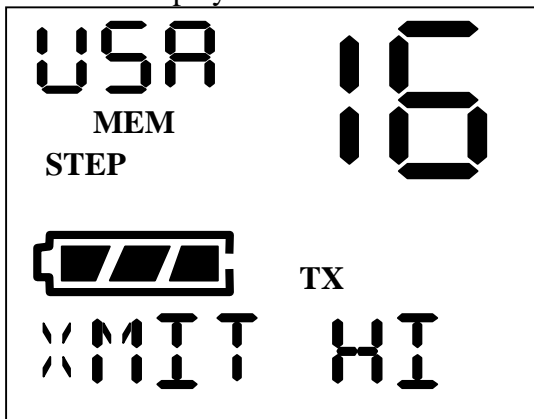


Bottom Line display 3 sec
"STAND BY"

. Transmit operation

Press PTT Button to transmit the signal. If PTT button is released, the radio turns to Receive or receive stand-by mode.

** Transmit display



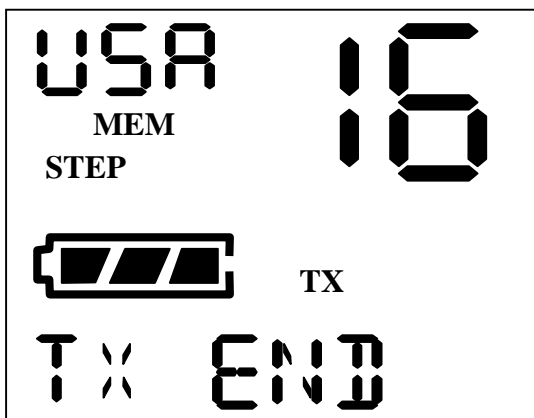
. Tx in Power High Setting
Bottom Line display
"XMIT HI"

. Tx in Power MED Setting
Bottom Line display
"XMIT MED"

. Tx Power Low Setting
Bottom Line display
"XMIT LOW"

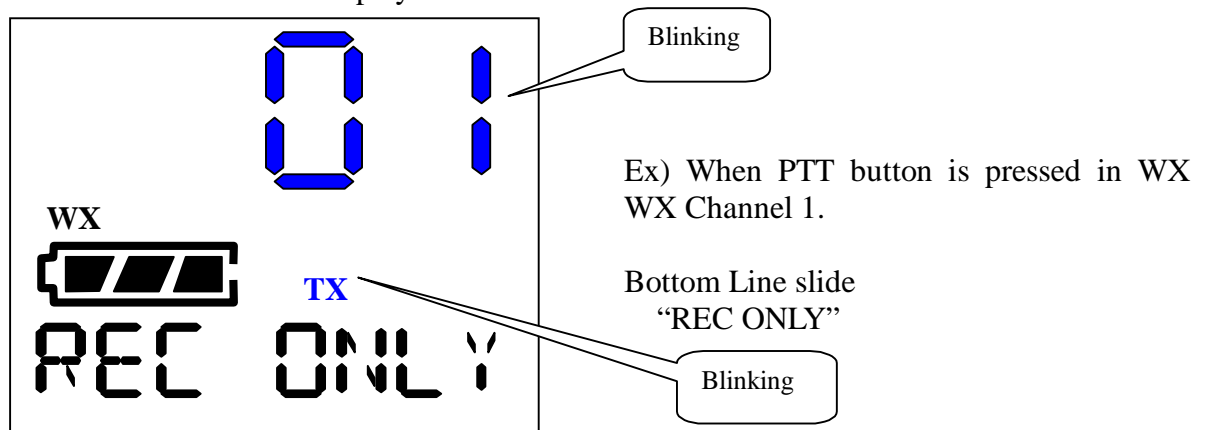
** It display XMIT HI/MID/LOW for 3 sec. and then return to the channel name display.

** Tx End display : When Transmit is ended. (PTT Button release)



. Bottom Line display 3 sec
"TX END"

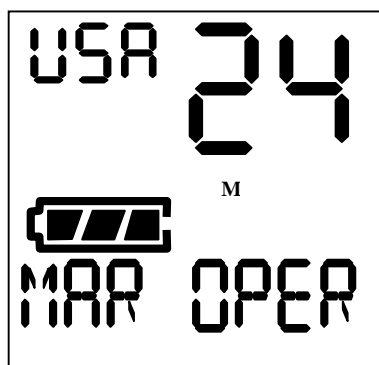
** If PTT button is pressed in WX Channel mode / Tx inhibit Channel, Error beep tone sounds and “REC ONLY” is displayed.



. 16 / 9 Channel

If 16/9/TRI key is pressed shortly(within 1 sec.), the channel changes **Channel 16 → Channel 9 → current Channel** in turn.

** The current Channel display



Bottom Line display
"MAR OPER"

** Channel 16 display



Bottom Line display
"DISTRESS"

** Channel 9 display

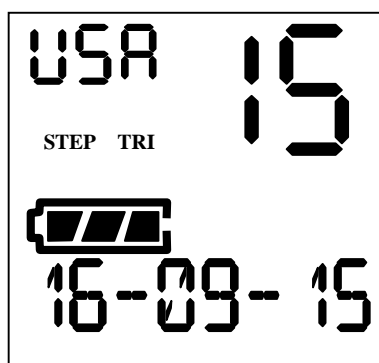


Bottom Line display
"CALLING"

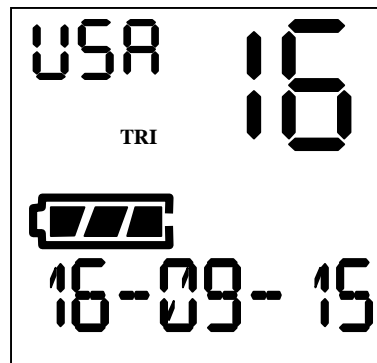
. Triple Watch

If 16/9/TRI key is pressed more than 2 seconds, Triple Watch starts its operation.

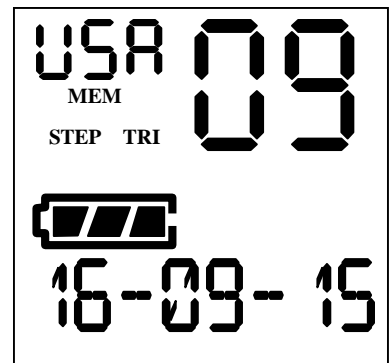
Triple Watch operation is to check Channel 16 and Channel 9 by every 2 seconds and if there is a signal in Channel 16, it stays in Channel 16 until the signal stops. If there is a signal in Channel 9, it stays in Channel 9 checking Channel 16 by every 2 seconds.



Bottom Line display
"16-09-15"



Bottom Line slide
"16-09-15"



Bottom Line slide
"16-09-15"

. SCAN operation

. Memory Channel Scan

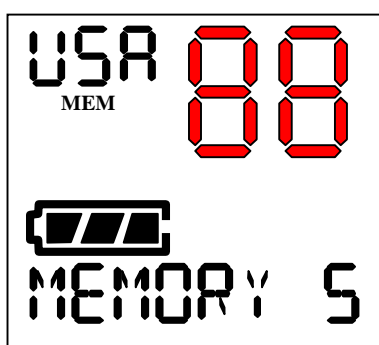
If SCAN key is pressed shortly (within 1 seconds), Memory Channel Scan starts.
(It scans only memorized channels.)

. Priority Channel Scan

Press SCAN key more than 2 sec. to start Priority Channel Scan.
(Memory Channel SCAN + Channel 16 Scan)

In scanning, press SCAN key to stop scanning.

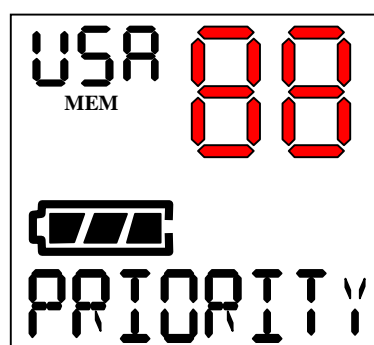
** Memory Channel Scan display



(Scan List display at bottom line)

“MEMORY SCAN 1,6,10,14,71,84”

** Priority Scan display



“PRIORITY SCAN 1,6,10,14,16,71,84”

** Channel Scan sequence

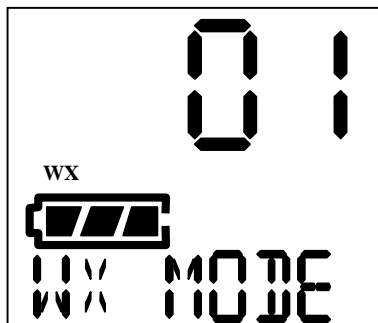
1 → 6 → 10 → 14 →
71 → 84 → 1 → 6 →

1 → 16 → 6 → 16 → 10 → 16 →
14 → 16 → 71 → 16 → 84 →
16 → 1 → 16 → 6 →

. Weather

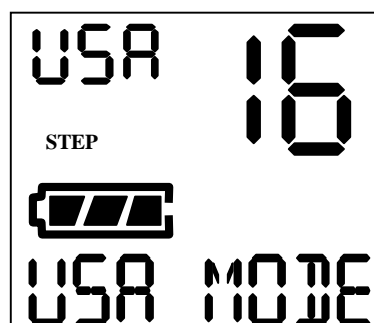
If WX key is pressed shortly (within 1 sec.), the mode changes Weather ↔ Marine mode.

** Weather Mode display



Bottom Line display 3 sec
“WX MODE”

** Marine mode display



Bottom Line display 3 sec
“USA MODE” or “INT MODE” or “CAN MODE”

. WX Alert

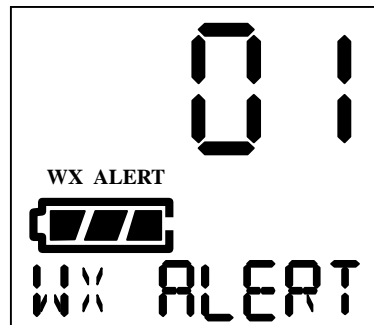
If WX key is pressed more than 2 seconds, WX Alert is enabled or disabled.

** Stand-by on the Marine Channel

** WX Alert Checking



Bottom Line display
"DISTRESS"



Bottom Line display 1 sec
"WX ALERT"

** WX Alert check at Marine mode

It checks alert tone every 7seconds in the last used WX Channel.

** WX Alert check at WX mode

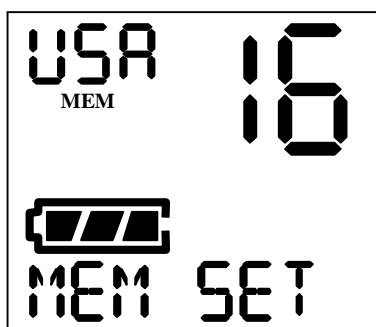
It checks alert tone in the current WX Channel.

If Alert option is on, it would not receive the signal in the current channel until alert tone is detected. (Speaker Mute)

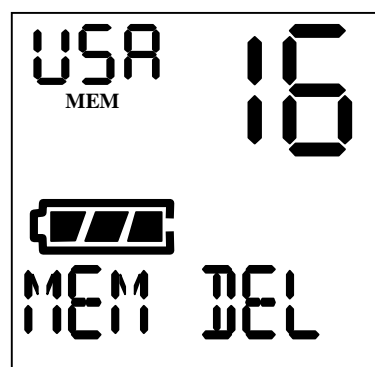
If Alert Tone is detected, it disables Alert option and turns to WX mode sounding Alert detect alarm for 10 seconds. (Max Volume)

. MEMory

If MEM key is pressed shortly (within 1 second), it toggles the current channels' MEMory status.



Bottom Line display 3 sec
"MEM SET"

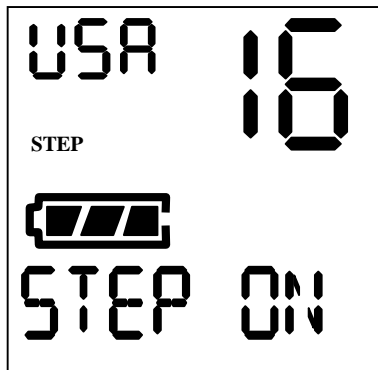


Bottom Line display 3 sec
"MEM DEL"

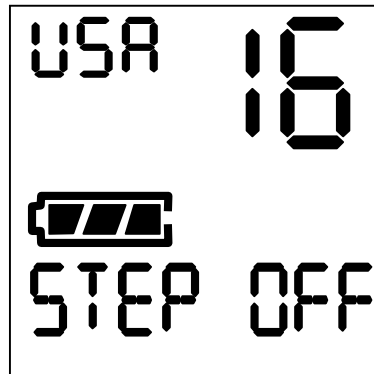
** In Memory Channel Scanning, it scans only memorized channels.

. STEP

If MEM key is pressed more than 2 seconds, STEP icon is toggled.



Bottom Line display 3 sec
"STEP ON"



Bottom Line display 3 sec
"STEP OFF"

.. Step Channel selection

When STEP is on, if Up / Down key is pressed, Channel is changed to STEP-on (Memorized) Channels.

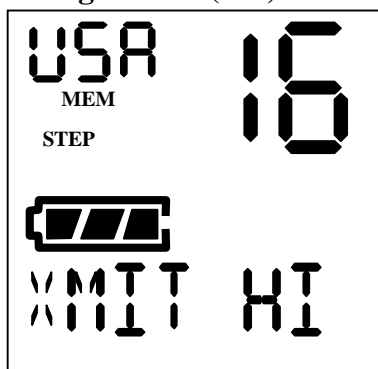
. Tx Output Power Selection

If H/L key is pressed, the TX output power setting will changed in turn as under;

High Power (5W) → Mid Power(1W) → Low Power(0.5W)

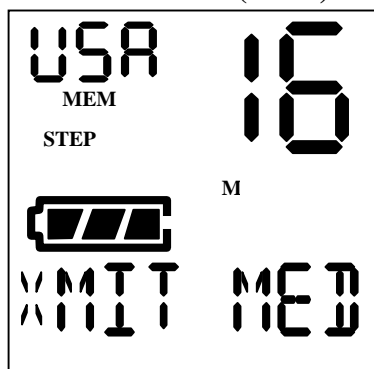
** It won't work in Low Power only Channel , WX Channel, and Tx inhibit Channel.

** High Power(5W)



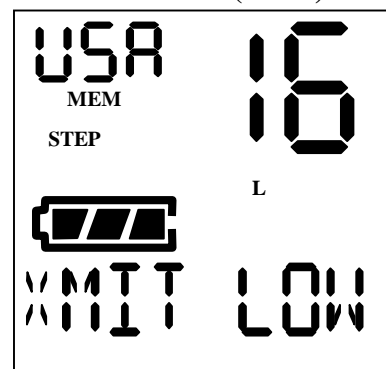
Bottom Line display 3 sec
"XMIT HI"

** Mid Power(1.0W)



Bottom Line display 3 sec
"XMIT MED"

** Low Power(0.5W)



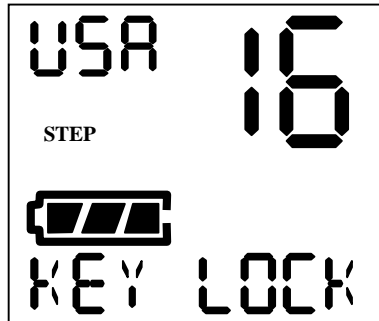
Bottom Line display 3 sec
"XMIT LOW"

. LCD / Key-PAD Back lighting

If any key on the radio is pressed, black light is on. Light-on will keep 10 seconds.

. Key-PAD Lock

If Lock key on the left side of the radio is pressed more than 2 seconds, key lock operation will work as an on/off toggle option.



** PTT button and Lock key won't be locked even key lock is enabled.

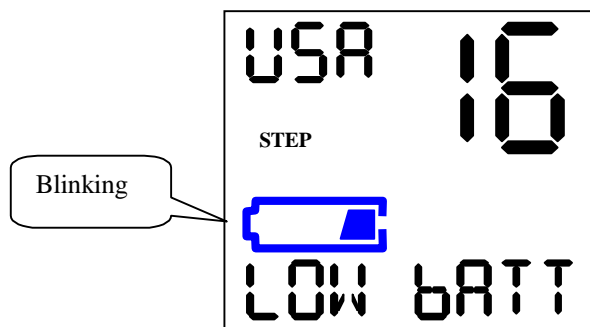
Bottom Line display
"KEY LOCK"

. Battery Level display & Low Battery

The current Battery Level will be checked and displayed.

In case of Low Battery, Low battery warning alarm sounds every 10 second.

** Low Battery display



Bottom Line display
"LOW BATT"

**** U.S.A Frequency Chart**

Ch No.	Rx Freq	Tx Freq	Full Name (Slide Name)	Name
1	156.0500	156.0500	VESSEL TRAFFIC SYSTEM/COMMERCIAL	VTS/COML
2				
3	156.1500	156.1500		
4				
5	156.2500	156.2500	VESSEL TRAFFIC SYSTEM/COMMERCIAL	VTS/COML
6	156.3000	156.3000	INTER-SHIP SAFETY	SAFETY
7	156.3500	156.3500	COMMERCIAL	COMMERCL
8	156.4000	156.4000	COMMERCIAL	COMMERCL
9	156.4500	156.4500	NON COMMERCIAL	NON COML
10	156.5000	156.5000	COMMERCIAL	COMMERCL
11	156.5500	156.5500	VESSEL TRAFFIC SYSTEM	VTS
12	156.6000	156.6000	VESSEL TRAFFIC SYSTEM	VTS
13	156.6500	156.6500	BRIDGE-TO-BRIDGE	BRG-BRG
14	156.7000	156.7000	VESSEL TRAFFIC SYSTEM	VTS
15	156.7500	<i>Inhibit</i>	ENVIRONMENTAL	ENVIRON
16	156.8000	156.8000	DISTRESS,SAFETY,CALLING	DISTRESS
17	156.8500	156.8500	STATE CONTROL	SAR
18	156.9000	156.9000	COMMERCIAL	COMMERCL
19	156.9500	156.9500	COMMERCIAL	COMMERCL
20	157.0000	157.0000	PORT OPERATION	PORT OPR
21	157.0500	157.0500	COAST GUARD ONLY	CC ONLY
22	157.1000	157.1000	COAST GUARD	
23	157.1500	157.1500	COAST GUARD ONLY	CG ONLY
24	161.8000	157.2000	MARINE OPERATOR	MAR OPER
25	161.8500	157.2500	MARINE OPERATOR	MAR OPER
26	161.9000	157.3000	MARINE OPERATOR	MAR OPER
27	161.9500	157.3500	MARINE OPERATOR	MAR OPER
28	162.0000	157.4000	MARINE OPERATOR	MAR OPER

Ch No.	Rx Freq	Tx Freq	Full Name (Slide Name)	Name
60				
61	156.0750	156.0750	COAST GUARD	CCG
62				
63	156.1750	156.1750	VESSEL TRAFFIC SYSTEM	VTS
64	156.2250	156.2250	COMMERCIAL	COMMERCL
65	156.2750	156.2750	PORT OPERATION	PORT OPR
66	156.3250	156.3250	PORT OPERATION	PORT OPR
67	156.3750	156.3750	BRIDGE-TO-BRIDGE	BRG-BRG
68	156.4250	156.4250	NON COMMERCIAL	NON COML
69	156.4750	156.4750	NON COMMERCIAL	NON COML
70	156.5250	<i>Inhibit</i>	DIGITAL SELECTIVE CALLING	DSC
71	156.5750	156.5750	NON COMMERCIAL	NON COML
72	156.6250	156.6250	NON COMMERCIAL (SHIP-SHIP)	NON COML
73	156.6750	156.6750	PORT OPERATION	PORT OPR
74	156.7250	156.7250	PORT OPERATION	PORT OPR
75				
76				
77	156.8750	156.8750	PORT OPERATION (SHIP-SHIP)	PORT OPR
78	156.9250	156.9250	NON COMMERCIAL	NON COML
79	156.9750	156.9750	COMMERCIAL	COMMERCL
80	157.0250	157.0250	COMMERCIAL	COMMERCL
81	157.0750	157.0750	COAST GUARD	USCG
82	157.1250	157.1250	COAST GUARD	USCG
83	157.1750	157.1750	GOVERNMENT	USCG
84	161.8250	157.2250	MARINE OPERATOR	MAR OPER
85	161.8750	157.2750	MARINE OPERATOR	MAR OPER
86	161.9250	157.3250	MARINE OPERATOR	MAR OPER
87	161.9750	157.3750	MARINE OPERATOR	MAR OPER
88	157.4250	157.4250	COMMERCIAL (SHIP-SHIP)	COMMERCL
WX01	162.5500			WEATHER1
WX02	162.4000			WEATHER2
WX03	162.4750			WEATHER3
WX04	162.4250			WEATHER4
WX05	162.4500			WEATHER5
WX06	162.5000			WEATHER6
WX07	162.5250			WEATHER7
WX08	161.6500			WEATHER8
WX09	161.7750			WEATHER9
WX10	163.2750			WEATHR10

** International Frequency Chart

[illegible]

Ch No.	Rx Freq	Tx Freq	Full Name(Slide Name)	Name
60	160.6250	156.0250	MARINE OPERATOR	MAR OPER
61	160.6750	156.0750	MARINE OPERATOR	MAR OPER
62	160.7250	156.1250	MARINE OPERATOR	MAR OPER
63	160.7750	156.1750	MARINE OPERATOR	MAR OPER
64	160.8250	156.2250	MARINE OPERATOR	MAR OPER
65	160.8750	156.2750	MARINE OPERATOR	MAR OPER
66	160.9250	156.3250	MARINE OPERATOR	MAR OPER
67	156.3750	156.3750	BRIDGE-TO BRIDGE	BRG-BRG
68	156.4250	156.4250	NON COMMERCIAL	NON COML
69	156.4750	156.4750	NON COMMERCIAL	NON COML
70	156.5250	<i>Inhibit</i>	DIGITAL SELECTIVE CALLING	DSC
71	156.5750	156.5750	NON COMMERCIAL	NON COML
72	156.6250	156.6250	NON COMMERCIAL	NON COML
73	156.6750	156.6750	PORT OPERATION	PORT OPR
74	156.7250	156.7250	PORT OPERATION	PORT OPR
75				
76				
77	156.8750	156.8750	PORT OPERATION (SHIP-SHIP)	PORT OPR
78	161.5250	156.9250	PORT OPERATION	PORT OPR
79	161.5750	156.9750	PORT OPERATION	PORT OPR
80	161.6250	157.0250	PORT OPERATION	PORT OPR
81	161.6750	157.0750	PORT OPERATION	PORT OPR
82	161.7250	157.1250	PORT OPERATION	PORT OPR
83	161.7750	157.1750	PORT OPERATION	PORT OPR
84	161.8250	157.2250	MARINE OPERATOR	MAR OPER
85	161.8750	157.2750	MARINE OPERATOR	MAR OPER
86	161.9250	157.3250	MARINE OPERATOR	MAR OPER
87	161.9750	157.3750	MARINE OPERATOR	MAR OPER
88	162.0250	157.4250	MARINE OPERATOR	MAR OPER
WX01	162.5500			WEATHER1
WX02	162.4000			WEATHER2
WX03	162.4750			WEATHER3
WX04	162.4250			WEATHER4
WX05	162.4500			WEATHER5
WX06	162.5000			WEATHER6
WX07	162.5250			WEATHER7
WX08	161.6500			WEATHER8
WX09	161.7750			WEATHER9
WX10	163.2750			WEATHR10

** Canadian Frequency Chart

[illegible]

Ch No.	Rx Freq	Tx Freq	Full Name (Slide Name)	Name
60	160.6250	156.0250	MARINE OPERATOR	MAR OPER
61	156.0750	156.0750	COAST GUARD	CCG
62	156.1250	156.1250	COAST GUARD	CCG
63				
64	156.2250	156.2250	MARINE OPERATOR	MAR OPER
65	156.2750	156.2750	SEARCH AND RESCUE	RESCUE
66	156.3250	156.3250	PORT OPERATION	PORT OPR
67	156.3750	156.3750	BRIDGE-TO-BRIDGE	BRG-BRG
68	156.4250	156.4250	NON COMMERCIAL	NON COML
69	156.4750	156.4750	NON COMMERCIAL	NON COML
70	156.5250	<i>Inhibit</i>	DIGITAL SELECTIVE CALLING	DSC
71	156.5750	156.5750	NON COMMERCIAL	NON COML
72	156.6250	156.6250	NON COMMERCIAL	NON COML
73	156.6750	156.6750	PORT OPERATION	PORT OPR
74	156.7250	156.7250	PORT OPERATION	PORT OPR
75				
76				
77	156.8750	156.8750	PORT OPERATION	PORT OPR
78	156.9250	156.9250	INTER SHIP	SHP-SHP
79	156.9750	156.9750	INTER SHIP	SHP-SHP
80	157.0250	157.0250	INTER SHIP	SHP-SHP
81	157.0750	157.0750	COAST GUARD	CCG
82	157.1250	157.1250	COAST GUARD	CCG
83	157.1750	157.1750	COAST GUARD	CCG
84	161.8250	157.2250	MARINE OPERATOR	MAR OPER
85	161.8750	157.2750	MARINE OPERATOR	MAR OPER
86	161.9250	157.3250	MARINE OPERATOR	MAR OPER
87	161.9750	157.3750	MARINE OPERATOR	MAR OPER
88	162.0250	157.4250	MARINE OPERATOR	MAR OPER
WX01	162.5500			WEATHER1
WX02	162.4000			WEATHER2
WX03	162.4750			WEATHER3
WX04	162.4250			WEATHER4
WX05	162.4500			WEATHER5
WX06	162.5000			WEATHER6
WX07	162.5250			WEATHER7
WX08	161.6500			WEATHER8
WX09	161.7750			WEATHER9
WX10	163.2750			WEATHR10

FCC WARNING

Replacement or substitution of transistors, diodes or other parts of a unique nature, with parts other than those recommended by the manufacturer, may cause a violation of the technical regulations of Part 15 of FCC Rules.

SAFETY INFORMATION

Your wireless hand-held portable transceiver contains a low power transmitter. When the PTT button is pushed it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50% using alkaline “AAA” size batteries to comply with Federal Communications Commissions (FCC) RF exposure guidelines with safety level guidelines for hand-held wireless devices.

Important: To maintain compliance with the FCC’s RF exposure guidelines hold the transmitter at least 1 inch away (2.5 centimeters) from your face. Use only supplied belt clip.

FCC NOTICE

Unauthorized changes or modifications to this equipment may void compliance with FCC Rules.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a marine installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or the following measures:

Consult the dealer or an experienced marine electronics technician for help.

FCC RF EXPOSURE COMPLIANCE REQUIREMENTS FOR OCCUPATIONAL USE ONLY

When operating your portable marine VHF radio transceiver, you should know that the antenna radiates radio frequency energy. This radio was designed to meet the FCC's rules and regulations for the maximum permissible exposure to radio frequency energy. This design was tested and found to be compliant to the strict requirements established by the FCC.

This radio is **NOT** approved for use by the general population in an uncontrolled environment. This radio is restricted to occupational use, work related operations only where the radio operator must have the knowledge to control his or her exposure conditions for satisfying the higher exposure limit allowed for Occupational Users.

DO NOT operate the radio without a proper antenna attached, as this may damage the radio and may also cause you to exceed FCC RF exposure limits. A proper antenna is the antenna supplied with this radio by the manufacturer or an antenna specifically authorized by the manufacturer to use with this radio.

DO NOT transmit for more than 50% of the total radio use time. Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded. The radio is transmitting when the "TX indicator" is displayed on the screen. You can cause the radio to transmit by pressing the "PTT" switch.

This radio is approved for use with the specific belt-clip tested for body-worn SAR compliance. Other belt clips or body-worn accessories may not comply and should be avoided.

GENERAL SAFETY PRECAUTIONS

WARNING: It is up to the user to properly operate this transmitter to ensure safe operation. Please adhere to the following:

- Never allow children to operate the radio without adult supervision and the knowledge of the following safety guidelines.
- Hold the radio transceiver to your face, but always maintain at least a 1 inch separation distance between your body (including the face and eyes) and any surface of the radio.
- Never allow the antenna to touch the human body or to come within 1 inch when the transmitter is active.