

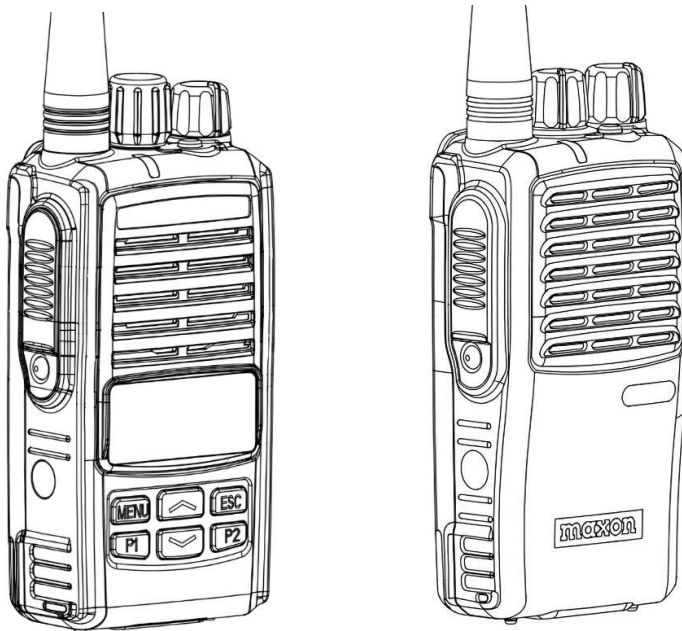


MDP-5000 Series

MDP-5124 (VHF) / MDP-5424 (UHF) Display

MDP-5116 (VHF) / MDP-5416 (UHF) Non-Display

User's Manual



1. PRODUCT FEATURES

The MDP-5000 Series radio are rugged & reliable DMR Tier II Digital + Analog walkie-talkies. They use an AMBE++ vocoder to provide optimized sound quality along with noise-free voice quality regardless of distance. Each MDP-5000 has been designed to have a light and sturdy structure along with high quality/powerful sound. The options packed into this radio are designed for users in industrial sites, public safety, schools, parks, and farming. When used, calls can be made with clear sound quality and impenetrable security.

The MDP-5000 has multiple features that are programmable using a PC and a programming cable.

- DMR (Digital Mobile Radio) Tier II / Analog Transceiver
- Frequency: VHF (136~174Mhz) / UHF (400~470Mhz)
- Channel Spacing: 12.5KHz / 25KHz
- 1024 Channel Selections w/10 Zones (Display); 48 Channels w/3 Zones (Non-Display)
- Transmission Output (2W/5W) Per Channel
- AES256 Encryption (DMRA, Standard)
- Mic AGC Gain
- Graphic LCD
- Individual Call, Group Call and All Call
- Normal & Priority Scan
- 1W Speaker Audio
- VOX
- SMS Text Messaging (Display)
- 50 Contacts Contact List (Display)
- 2 & 5 Tone Encode/Decode
- Lone Worker
- Remote Monitor
- Remote Transceiver Stun / Un-Stun (Display)
- Wired and Wireless Cloning
- 7.5V / 2,600mAh Standard Battery or 3,350mAh Large Capacity Battery option
- Waterproof & Dust Proof (IP67)
- SFR (Single Frequency Repeater) Optional
- TX Intercept, Optional

2. In-Box Contents (Subject to change at buyer's request)



Display or Non-Display Radio



Battery



Dual slot charger



Antenna



DC Adapter



Hand Strap / Lanyard



Belt Clip



QR Code for User Manual

(Figure 2-1) MDP-5000 Series in-box items

Accessory Part Numbers:

- ACC-500DN: Radio Programming Software
- ACC-3320E: Programming Cable (USB)
- TA-2600LI: 2,600mAh Li-ion battery pack
- TA-3350LI: 3,350mAh Li-ion battery pack
- TA-800LA: Dual Slot Charger
- TA-50LC/MA-60LC (Display): Leather Carry Case
- TA-50NC/MA-60NC (Display): Nylon Carry Case
- TA-80BC: Spring Loaded Belt Clip
- TA-841: VHF "Digital" antenna 6"
- TA-842: UHF "Digital" antenna 6 1/4"
- TA-817X: "D" Style earpiece w/PTT
- TA-818X: "Discrete" Style earpiece w/PTT
- TA-819X: "C" Style earpiece w/PTT
- TA-836X: Standard Speaker Microphone
- TA-850X: Heavy Duty Speaker Microphone
- TA-855X: Heavy Duty Speaker Microphone w/ vol control

3. Controls and Appearance of MDP-5416/5116



Power ON/OFF Volume Control Knob

Turns radio on/off and adjusts audio volume level.

Channel Selection Knob

Changes your radio channels 1-16

PTT Button (Push-To-Talk Button)

Press and hold the PTT button to transmit voice and then release it to receive.

Programmable Button

Press On/Off. This button can be assigned multiple functions through radio programming. Press and hold of button turns it on continuously.

(SOS) Emergency Button (Programmable)

Short press will set off an emergency tone.

Status LED

This LED is a lamp indicating the current status of the Radio and please refer to the below contents.

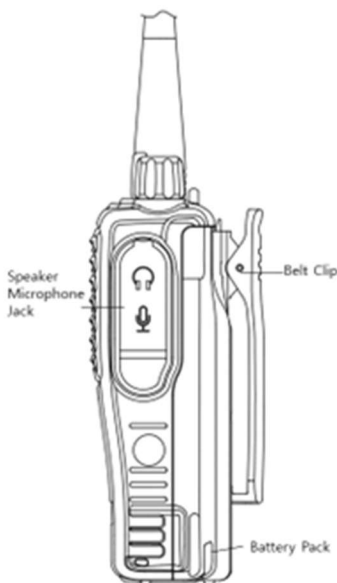
- ① RX : Green LED
- ② TX : Red LED
- ③ CTCSS, DCS Error : Green LED blinks
- ④ Low Battery: Red LED blinks with "beep" sound.

Speaker/MIC Jack

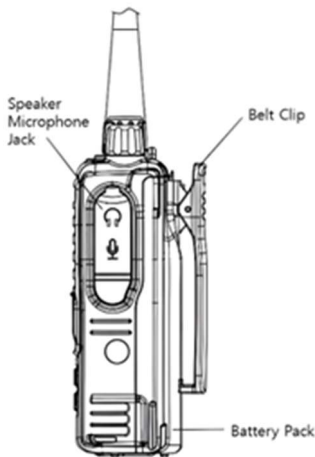
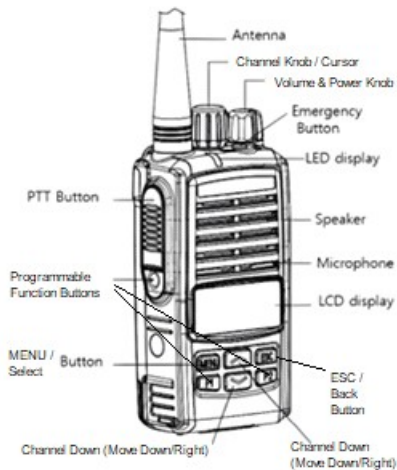
Keep cover closed when not using accessories. The accessory connector is used to connect an external speaker microphone, headset, or programming cable.

MIC

Please talk 2" from the mic hole for optimum clarity.



4. Controls and Appearance of MDP-5424/5124



Power ON/OFF Volume Control Knob

Turns radio on/off and adjusts audio volume level.

Channel Selection Knob

Changes your radio channel. Also used to move cursor in settings menu. Rotates 360°

PTT Button (Push-To-Talk Button)

Press and hold the PTT button to transmit voice and then release it to receive.

Menu/Select/OK

Used to make selections or enter menus.

ESC Escape/Back

Used to move you back one step in a menu.

Programmable Button

Press On/Off. This button can be assigned multiple functions through radio programming. Press and hold of the button turns it on continuously.

Up/Down

Operates both as normal channel UP/DOWN button when not in a menu and also as an UP, DOWN, or LEFT(UP), RIGHT(DOWN) selector when in a menu.

(SOS) Emergency Button (Programmable)

Short press will set off an emergency tone. This button is also a programmable button for various functions.

P1/P2 (Programmable) Function Button

Programmable Buttons using CPS Software

Status LED

This LED is a lamp indicating the current status of the Radio and please refer to the below contents.

- ① RX : Green LED
- ② TX : Red LED
- ③ CTCSS, DCS Error : Green LED blinks
- ④ Low Battery: Red LED blinks with "beep" sound.

Speaker/MIC Jack

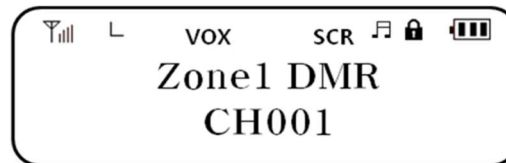
Keep cover closed when not using accessories. The accessory connector is used to connect an external speaker microphone, headset, or programming cable.

MIC

Please talk 2" from the mic hole for optimum clarity.

MDP-5000 Display

MDP-5000 Display radios LCD screen can display 12 characters in English. In this area, you can select and display a group, channel number, frequency, or pre-programmed channel name. Additionally, when using menu mode, various information can be displayed and selected. In addition, it contains 7 icons that allow you to intuitively recognize the transceiver's usage information and status, and you can use them to recognize the transceiver's status.



- Receiving signal strength display status. If the signal is strong, all 4 bars light up.
- Transmission output: When the “L” icon is displayed, the channel’s transmission output operates in [Low power mode]. When the “H” icon is displayed, the channel’s transmission output operates in [High power mode].
- Tone: With the icon displayed, the user can hear various tones from the transceiver. When the icon is missing from the display, the transceiver does not emit a tone.
- Lock: Icon lights up when the transceiver is set to locked. This freezes all of the programmed buttons.
- Battery amount remaining. When all bars are lit, the battery is fully charged. When the battery-shaped outer icon blinks, it indicates that the battery needs to be recharged.
- VOX (Voice Operated Transmit): “VOX” Icon lights up when the transceiver operates in VOX mode.
- SCR (Scrambler) secret mode: When the channel is operated in secret mode, the “SCR” Icon turns on.
- Txi: When the TX Interrupt function is activated, the icon turns on. (this is a optional feature activated by your Maxon dealer)

Charger Cradle

1-Dual Slot Charger (MA-500LA)

Charger Specifications

Item

Input Voltage

Applicable Battery

Charging Time

Operating Temperature

Size

Charging current

Specifications

DC 12V ± 20%

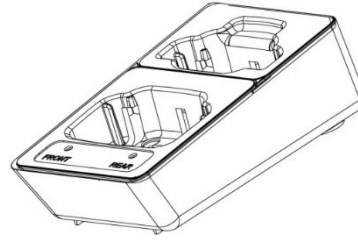
PBC-2260W

3 1/2 hours

0 ~ 40°C

135(L) * 87(W) * 50(H)m/m

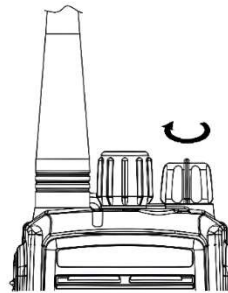
900 mA



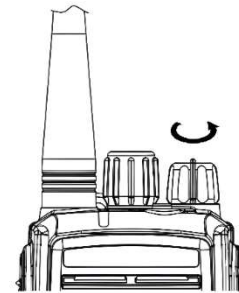
5. BASIC OPERATION

5.1 Power ON/OFF

- Turn the power/volume switch clockwise to turn it on.
- Turn the power/volume switch counterclockwise until you hear a tick to turn it off.



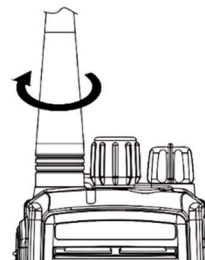
Power On



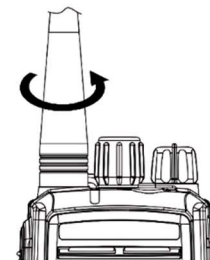
Power OFF

5.2 Attaching and Removing Antenna

- To separate and attach the antenna; attach the antenna to the antenna connector of the main body and turn it clockwise to connect the antenna. Turn it counterclockwise to disconnect the antenna.



Antenna Assembly

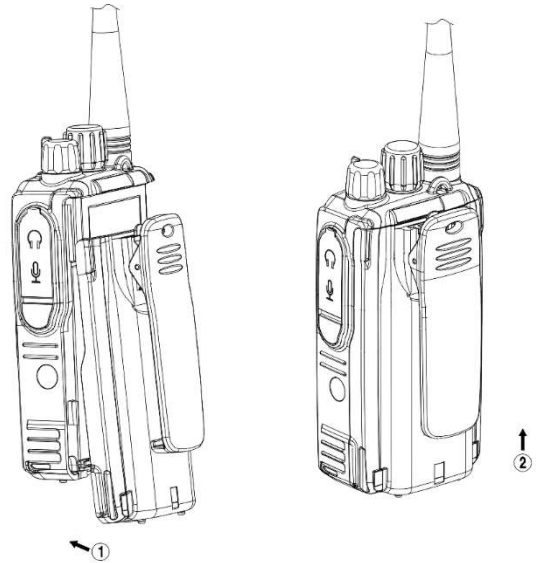


Antenna Disassembly

5.3 Attaching and Removing Battery

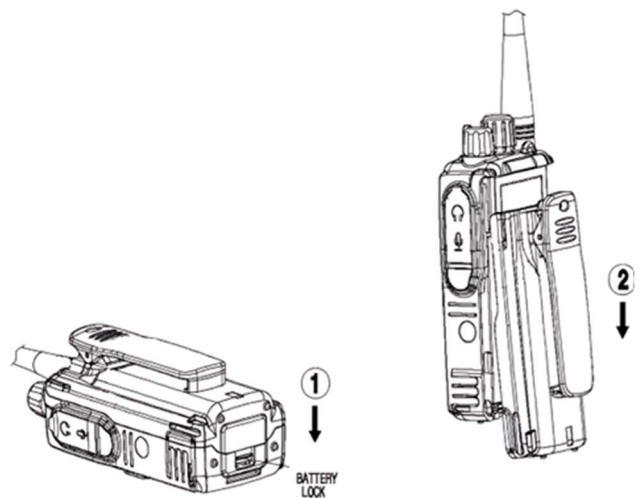
Attach Battery:

- Turn off the main unit.
- Hold the main unit and battery in both hands so that the back is visible.
- Align the hooks on the back of the main body with the hooks on the front of the battery (#1).
- While pressing the bottom of the battery, slide the battery upward (#2) until it clicks into place.
- Make sure the battery lock is in the normal position.



Detaching the Battery:

- Turn off the radio.
- Hold it in both hands so that the back of the body and battery are visible.
- While pressing down on the locking device, gently slide the battery downward to remove it from the main body.



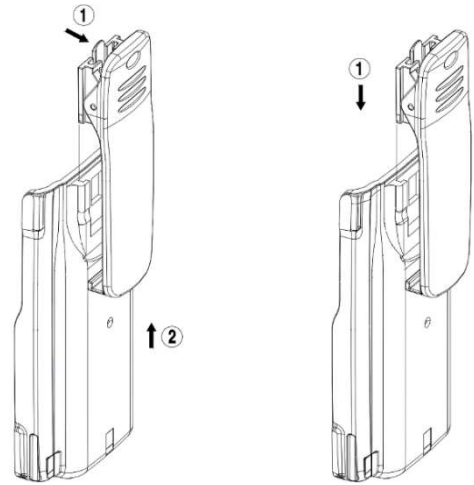
5.4 Installing and Removing the belt clip.

Belt clip removal

- Remove the belt clip from the battery by lifting the locking device located on the top of the belt clip and sliding the belt clip upward.

Attaching the belt clip:

- The battery belt clip is installed by aligning the belt clips in the grooves of the battery and pushing the belt clip down until you hear a 'click' sound.



5.5 Charging the Battery

- Use only the Lithium-ion batteries designed for the MDP-5000 Series to ensure safety and optimal performance. To maintain optimal capacity and stable operation of the transceiver, please fully charge your battery before use.

5.6 When to Charge the Battery

- Charge new batteries or batteries that have been left unattended for a long time, before using the equipment. If the battery voltage drops, the communication distance becomes shorter and the device cannot operate to its full potential. We recommend charging after approximately 10 to 13 hours of use.
- It is recommended to charge another 30 minutes after the LED turns green for a complete charge.

Operational status	LED color
Charging	Red LED On
Charging complete	Green LED On
Bad Battery	Red LED flashing
Temperature out of range, Rear slot waiting for charging	Yellow LED flashing

Precautions when charging

- The battery is designed to be used only with our dedicated charger, Maxon is not responsible for any problems arising from the use of a third-party charger.
- Turn off the radio before charging.
- There is a risk of fire or explosion if the user takes apart the battery or shorts it out.
- Be careful not to allow any of the metal contact to touch anything metal because it may cause burns or damage to the battery.
- Do not charge the battery near a fire or place it in direct sunlight.
- If the charger's LED flashes RED during charging, it indicates a defect in the battery pack, so be sure to contact your dealer.

6. RADIO FUNCTIONALITY

**Several features below need to be programmed/enabled in your radio to use or even view in the radio menu.

6.1 On/Off

When the radio is turned on, a double-beep indicates the radio is ready for normal operation. On your display radio, your radio alias is displayed on the LCD, followed by the current zone and channel name.



 Caution

If you turn on the transceiver while pressing a button, it may enter a special function mode and display something other than the channel name. If this happens, turn the radio off then back on

6.2 Wireless Transmission (Making a Radio Call)

When you press and hold the PTT button on the side of the radio, the red LED turns on and voice is transmitted. For the best sound quality, it is recommended to keep your mouth a distance 2" from the front of the radio. Press and hold down the PTT button as you speak, release the PTT button to listen.

 Caution

If the TOT (Timeout Timer) function has been enabled, the radio will stop transmitting after a preset time. This is to give other users the opportunity to transmit.

6.3 Wireless Reception (Receiving a Radio Call)

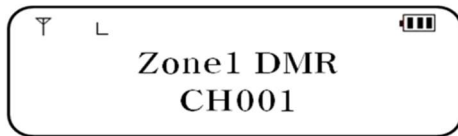
If your radio channel is programmed correctly, once your radio is turned on, and with no buttons being pressed, you will not need to do anything to listen to incoming radio transmissions except use the volume control to adjust the volume. In normal reception mode, the antenna bar on the LCD is displayed and the top lamp lights up green. If the lamp blinks green, there may be no audio because there is a mis-match in the CTCSS/DCS or a DMR option/color code not matching the programmed setting. (Monitor button functionality is limited to analog-supported models)

6.4 Change Channel

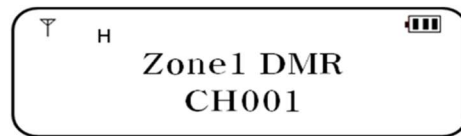
- Turn the channel switch (encoder) left or right (& also Up/Down buttons on display radios) to change channel to the next channel. There is a "beep" sound if that channel is programmed into your radio.
- If you press and hold the channel up/down button, the channel changes quickly and there is no "beep" sound.

6.5 Change RF Power

- Your transmission power can be adjusted if you want to extend your range or conserve power in a good coverage area. On High Power, your radio will have maximum range. On Low Power, your radio's range will be reduced, but battery life will be improved
- TX power can be set in advance using the CPS program, and can be changed by the user through menu mode or a programmed button
- For Non-Display Radios, there will be a power announcement if power is changed through a programmed button.
- On Display Radios:
 - For channels using High Power mode, the "H" icon lights up on the LCD.
 - For channels using Low Power mode, the "L" icon lights up on the LCD.



<LOW POWER >



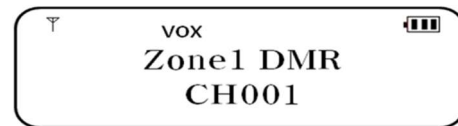
< HIGH POWER >

6.6 Channel Scan

Scan is used to monitor radio traffic across several different channels. In stand-by mode, press the SCAN button and you will hear a beep. For display radios, channel numbers that were programmed into your radio to scan are displayed sequentially. To cancel the scanning, press the button that was programmed for scan again or the MENU button on display radios. SCAN channels are set in advance using the CPS program.

6.7 VOX (Voice Operated Transmit)

The VOX function allows you to transmit using only the loudness of your voice without pressing the PTT button. The operation voice level / loudness for VOX can be adjusted, set in advance using the CPS program, or changed by the user in menu mode.



6.8 RX Monitoring (Analog-only function)

When a monitor button is programmed for your radio, pressing the monitor button allows the user to listen (eavesdrop) to any activity on the channel. A short press opens the squelch for 1 second. A long press allows the squelch to remain open while a short press will mute the audio.

6.10 Digital (DMR) Call Mode

Individual Call

If you perform an Individual Call, one-to-one communication to only one other specific radio is performed using the ID assigned to that particular radio. To set up, simply select the individual ID you want to send from the contacts in the menu (for non-display radios, go the particular channel set-up in CPS to talk to only that individual). The receiver receives if the received ID is the same as the number in MY ID set-up (the received ID is the other party's radio ID).



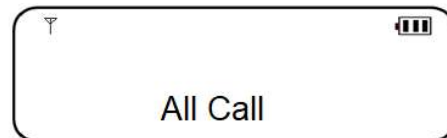
Group Call


If you perform a Group Call, you will be making a call with all the users included in that predetermined group (*Groups will need to be set-up through programming CPS*). To use, simply select the Group ID you want to send from the contacts in the menu (*for non-display radios, go the particular channel set-up in CPS to talk to only that individual*). The receiver receives if the received group ID matches the group list.



All Call

If you perform an All Call, radio calls will be made to all users programmed into your radio for that frequency & color code. To use, simply select the All Call ID you want to send from the contacts in the menu. All receivers on the same frequency will receive.



 All calls must match the color code set for the frequency.
Caution

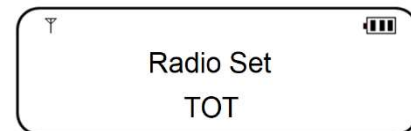
6.11 Stun/Revive

Stun function allows you to remotely disable a transceiver so it can no longer be used, usually for lost radios. This feature can only be applied through Direct Call to that radio's individual ID. When a Stun ID is received, the transceiver displays "STUN" on the LCD and then stops operating. In this state, no keys work. It remains in this state even if you turn the power off and back on. You must use the "Revive" function to restore a Stunned radio. Upon receiving the Revive ID, normal operation will return to the stunned radio.



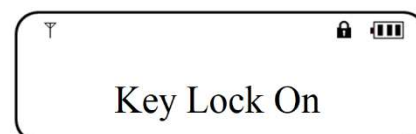
6.12 Time Out Timer (TOT)

This function prevents one person from transmitting indefinitely. As you press the PTT button, if your transmission exceeds the pre-set time, your transmission will be stopped and if you retransmit within the penalty time, the message "Transmission time exceeded" will be displayed on the LCD. If a penalty time is set, normal transmission occurs after that time. It can be set in advance using the CPS program, and the user can change it in menu mode.



6.13 Key Lock

Key Lock function locks all buttons from functioning except for the PTT key, the emergency button and the assigned button for Key Lock. A lock icon will be displayed when enabled.



6.14 PSC (Power Save)

When PSC is enabled, the receiver is powered on/off to a certain ratio to conserve battery power during standby. This feature is set in advance using the CPS program.

6.15 Password (When Turning the Radio On)

This function is assigned by the CPS. When enabled, the user must enter the correct password to make the radio function properly. To enter the password, use the arrow keys to enter the first digit (0-9). Next, press the Menu key to save it and move to the next number. When all numbers are entered, press the Menu key twice to exit.



= Input PW =
* #

6.16 Display Language

The MDP-5000 radio supports English and Korean Language for menus. It can be set in advance using the CPS program, or the user can change it in menu mode if they have the display radio.

6.17 Squelch Level Select

Squelch level can be adjusted in 3 levels to help reduce background static and filter-out unwanted transmissions. Squelch is programmed with CPS and settings can be changed via menu on display radios.

6.18 SMS (Short Message Service) (*Display Radios Only, Digital Mode/Channel*)

MDP-5000 display radios can send and receive short preprogrammed messages when on a digital channel. The MDP-5000 CPS programmer can be used to change and program the text messaging. Up to 10 messages can be stored in the radio.

- To select a message, go to Menu / Message / CommMsg, then use the 'UP/DOWN' arrows to select a message to send.
- Received messages will show "Msg Rcv" on the LCD. Press the Menu button to view received messages. All messages can be viewed by looking at the Inbox under Messages. It also displays the sender and a reply can be sent.

6.19 Emergency Call

There are 2 emergency calls, one for analog and one for digital mode; they are slightly different. A digital emergency lets the sender know if the call was received or not. In analog there is no indication of this. When you press the emergency button, an emergency alarm sounds and an emergency bell is transmitted to the current channel.

If it is set to repeat mode, the emergency bell will be transmitted periodically, to cancel the repeat, press the emergency button again. It cannot be activated in SCAN mode. It can be set in advance using the CPS program.

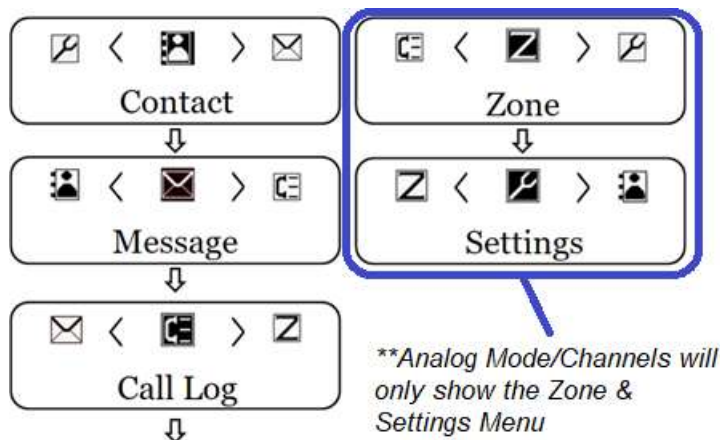


6.20 Lone Worker

When this feature is turned on, an alarm will be sent if PTT is not pressed for a preprogrammed period of time. The alarm stops when you enter the menu.

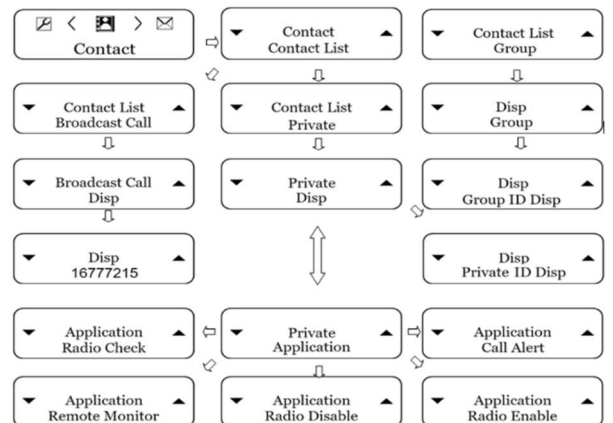
6.21 Setting up and Using Features of the Display Radio

When you press the menu button, you will enter Menu Mode with a “beep” sound. There are 5 menus in digital mode and 2 menus in analog mode. These settings make it convenient for the user when changing environments so that you don’t have extra menu choices. Use the ‘UP’ and ‘DOWN’ button to select the relevant menu. Menu composition may vary depending on model and digital/analog channel.



Contact

- A total of 50 Contact IDs are available in the MDP5000, and each radio number can be set in the CPS program and menu.
- ‘MENU’ button (LCD display: “Contact”) ‘MENU’ button again (LCD display: “Contact List”) and the ID will be displayed.
- The ‘MENU’ button again (LCD display: “ID Display”)
- Use the ‘UP, DOWN’ keys to check the desired ID.
- Press the ‘ESC’ button to exit the menu mode.

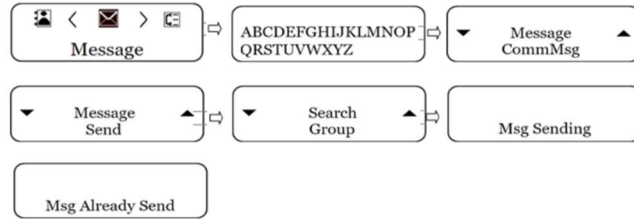


Messaging

Send Message

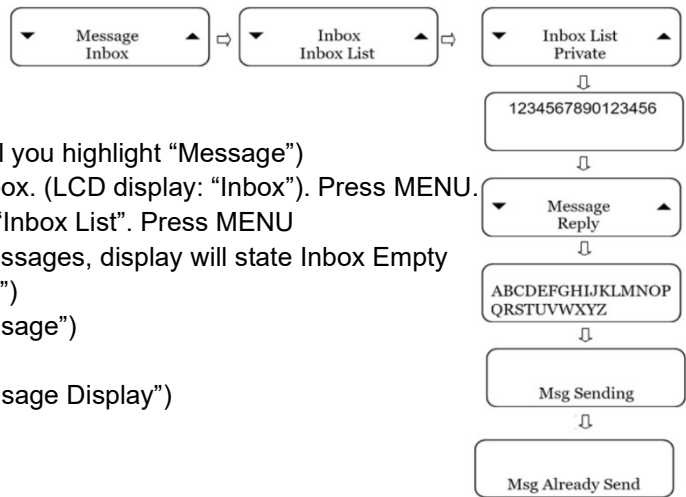
- Press the ‘MENU’ button (Press arrow buttons until you highlight “Message”)
- Press the ‘MENU’ button until LCD display states “CommMsg”

- Press the 'MENU' button again (LCD display will show available messages to choose from as you press up or down button. Select the message with the MENU button.)
- Press the 'MENU' button (LCD display: "Send")
- Press the 'MENU' button again to decide to whom message will be sent (ie: ID Call 1, GrpCall, All Call)
- Press the 'MENU' button again to send.



Inbox Messages

- Press 'MENU' button (Press arrow buttons until you highlight "Message")
- Press 'MENU' button & arrows to select the inbox. (LCD display: "Inbox"). Press MENU.
- Press 'MENU' button & arrows again to select "Inbox List". Press MENU
- Received Messages will be displayed. If no messages, display will state Inbox Empty
- Press 'MENU' button (LCD display: "ID Display")
- Press 'MENU' button (LCD display: "Inbox Message")
- Press 'MENU' button (LCD display: "Reply")
- Press 'MENU' button again (LCD display: "Message Display")
- Press 'MENU' button again to transmit.



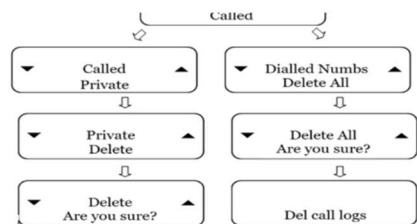
Outbox Messages

- Press 'MENU' button (LCD display: "Message")
- Press 'MENU' button and select the send box. (LCD display: "Outbox")
- Press 'MENU' button again (LCD display: "Outbox List")
- Press 'MENU' button (LCD display: "Outbox Message Display")
- The message you sent is displayed



Dialed Numbers

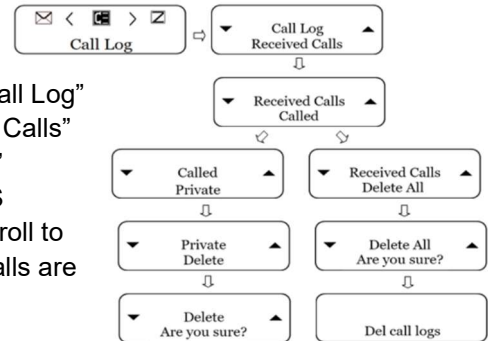
- Press 'MENU' button and arrow buttons until you highlight Call Log (LCD display: "Call Log")
- Press 'MENU' button to display "Dialed Numbs"
- Press 'MENU' button and arrows to display: "Called" or "Delete All". Press 'MENU' button to select your choice.
- If numbers are present, press 'MENU' button when the ID is displayed to bring up Delete option.
- If you want to delete calls, press 'MENU' button again and display will state "Are you sure?". Press



MENU to confirm.

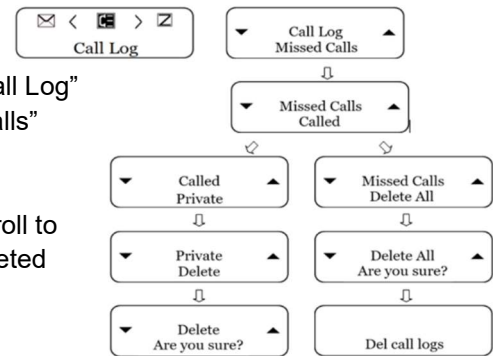
Call Log – Received Calls

- Press 'MENU' button and arrow button until you highlight "Call Log"
- Press 'MENU' button and arrow button to display "Received Calls"
- Press 'MENU' button again to display "Called" or "Delete All"
- Highlight Called, press 'MENU' button to enter & display IDS
- To delete, press 'MENU' button when the ID is displayed, scroll to "Delete", press 'MENU' button again to confirm. Received calls are Deleted.
- Delete all is the same process.



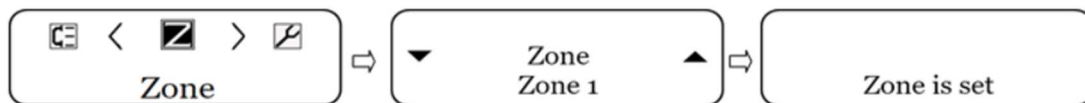
Call Log – Missed Calls

- Press 'MENU' button and arrow button until you highlight "Call Log"
- Press 'MENU' button and arrow button to display "Missed Calls"
- Press 'MENU' button again to display "Called", "Delete All"
- Highlight Press 'MENU' button to enter and display IDs
- To delete, press 'MENU' button when the ID is displayed, scroll to "Delete", press MENU again to confirm. Missed calls are deleted
- Delete all is the same process



Zone

- Zone feature moves you from Digital to Analog Mode or among multiple zones set up by CPS program.
- Press 'MENU' button and use arrows scroll over to "Zone"
- Press 'MENU' button to select.
- Use 'UP, DOWN' buttons to select the desired zone, and use the 'MENU' button to select. (LCD display: "Zone is set")

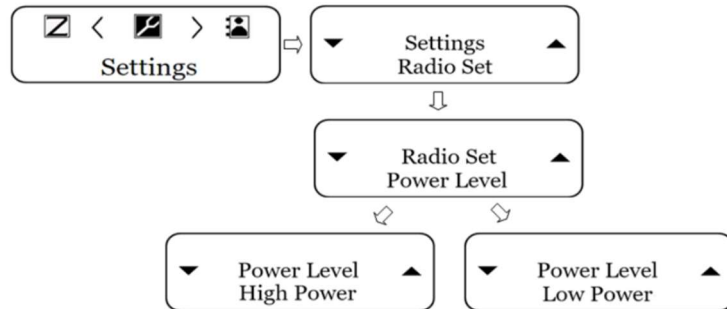


Radio

Setting – Power Level

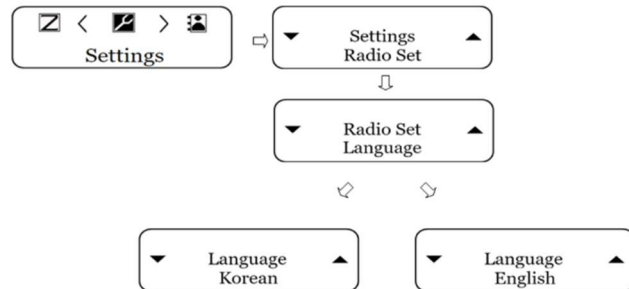
- Your radio's TX power can be changed to increase TX range or conserve battery.
- Press 'MENU' button and use arrows to scroll to "Settings", Press MENU

- Press 'MENU' button at "Radio Set" to get into settings menu.
- "Power Level" is the first choice. Select with 'MENU' button. Your current power level will be displayed (High Power or Low Power).
- Change power level with arrow keys and press MENU to select.
- LCD Display will state "Power is Set".



Radio Setting – Language

- You can change the display language between either English or Korean.
- Press 'MENU' button and use arrows to scroll to "Settings". Press MENU
- Scroll to "Radio Set", press 'MENU'.
- Scroll to "Language", press MENU to enter language menu.
- Select the language (English or Korean) using arrow keys & press MENU to change the display language.



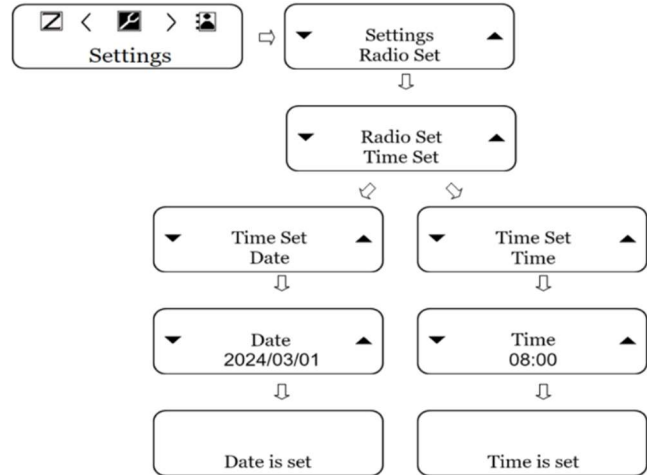
Radio Setting – Time Set

Edit the radio's current date and time.

Date

- Press 'MENU' button and use arrows to scroll to "Settings", Press MENU
- Press 'MENU' button at "Radio Set", scroll to "Time Set"

- Press 'MENU' button and arrows to select Date, press MENU to enter.
- Full Date will be displayed (YYYY/MM/DD). Change the date using the arrow keys and your cursor position with the 'Channel Selection Knob' at the top of your radio. There will be "/" and "-" symbols to indicate where the cursor is.
- Press MENU when done to set your date. Display will state "Date is set"

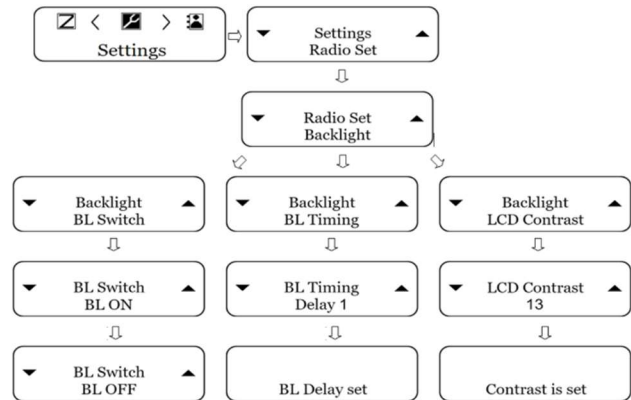


Time

- Press 'MENU' button and use arrows to scroll to "Settings", Press MENU
- Press 'MENU' button at "Radio Set", scroll to "Time Set"
- Press 'MENU' button and arrows to select "Time", press MENU to enter
- Time will be displayed (08:00). Change the time using the arrow keys and your cursor position with the "Channel Selection Knob". There will be ":" and "-" symbols to indicate where the cursor is.
- Press MENU when done to set your time. Display will state "Time is set".

Radio Setting – Backlight (BL)

- Change the on/off, timing, and contrast of the radio's backlight.
- "BL (Back Light) Switch" turns ON or OFF
- Press MENU and scroll to enter the settings menu. Press MENU, display will state "Radio Set".
- Press 'MENU' button again and scroll until you've highlighted "Backlight". Press MENU.
- Press 'MENU' and use arrows to select "BL Switch". Press MENU to enter.
- You can turn the BL value ON or OFF using the 'MENU' button and the arrow keys. Display will show BL ON, BL OFF. Press MENU to select, display will state "Light is Set". Backlight will turn off if you have selected BL OFF.



BL (Back Light) Timing

- Change the Backlight Timing
- Press MENU and scroll to enter the "Settings" menu. Press MENU, display will state "Radio Set".
- Press 'MENU' button again and scroll until you've highlighted "Backlight". Press MENU.
- Press 'MENU' and use arrows to select "BL timing". Press MENU to enter.
- Display will state "BL Timing / Delay 1". Use the arrows to set the level of delay before your backlight turns off. Display selection "Delay 1~10". Press menu to make a selection, radio will display "BL Delay Set"

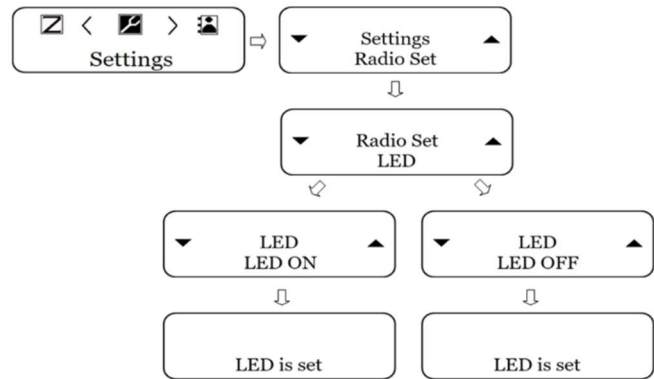
LCD Contrast

- Change the LCD Display Contrast

- Press MENU and scroll to enter the “Settings” menu. Press MENU, display will state “Radio Set”.
- Press ‘MENU’ button again and scroll until you’ve highlighted “Backlight”. Press MENU.
- Press ‘MENU’ and arrows to select the “BL contrast”. Display will state for example “LCD Contrast 13”. Change levels (1-15) using the arrows keys and set with the MENU button.

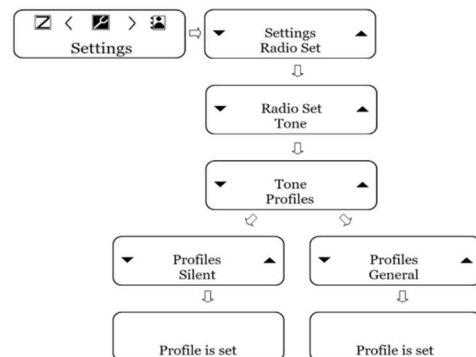
Radio Setting - LED

- You can turn your radio status LED light off or on.
- Press ‘MENU’ and arrow buttons to select radio “Settings” and press MENU to enter. (Display will state “Radio Set”)
- Press ‘MENU’ button, scroll to LED. Press MENU to enter and use the arrows to select on/off. Press MENU to make your selection, display will state either “LED ON”, “LED OFF”. Your radio’s LCD status light will no longer blink red or green if turned OFF.



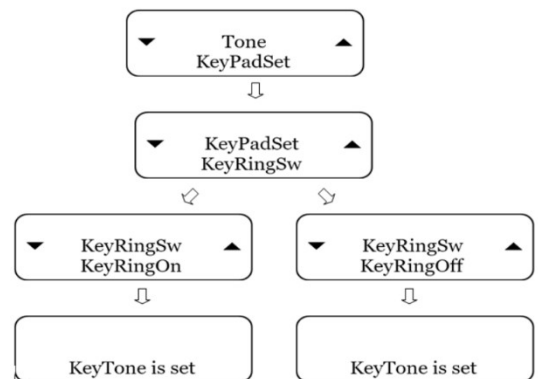
Radio Setting – Tone (Profiles)

- You can change the behavior of your radio tones or make you radio silent.
- Press ‘MENU’ and arrow keys to get to “Settings” menu. Press MENU again at “Radio Set” to enter.
- Use arrows to scroll to “Tone” and press MENU to enter. Use arrows to select Profiles and press MENU.
- Select a profile General (Normal) or Silent using the arrow keys and press MENU to select the profile.



Radio Setting – Tone (KeyPadSet)

- You can turn button tones off on your keypad.
- Press ‘MENU’ and arrow keys to get to “Settings” menu. Press MENU again at “Radio Set” to enter.
- Use arrows to select “Tone”, press MENU to enter. Use arrows to select “KeyPadSet” press MENU.
- Press ‘MENU’ again display shows: “KeyRingSw”.
- Press ‘MENU’ button again to enter setting. Display will show either “KeyRingOn”, “KeyRingOff”. Use arrows to change the setting, and MENU again to confirm. Display will state “Keytone is set”. Radio keypad will be silent if set to KeyRingOff. The volume effect by turning tones on or off may take a few seconds after selecting the setting.



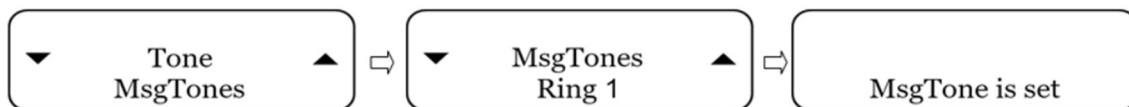
Radio Setting – Tone(LBattTone)

- Turn the tone for the low battery alert on or off.
- Press ‘MENU’ and arrow keys to get to “Settings” menu. Press MENU again at “Radio Set” to enter.
- Use arrows to select “Tone”, press MENU to enter. Use arrows to select “LBattTone” press MENU.

- Press 'MENU' button again, display will state LCD display: "LbatToneSw". Press MENU to enter.
- Use the arrows to select ON ("LbatToneOn") or OFF ("Lbat Tone Off") and then MENU to confirm your selection. Display will state "LTone is Set".

Radio Setting – Tone(MsgTones)

- Turn your message alert tone on or off.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Tone", press MENU to enter. Use arrows to select "MsgTones" press MENU
- Display will state "MsgTones / Ring 1". Use the arrows to select the ringtone (Display will show "Ring 1~5", tone playback will occur during scrolling) and press MENU to confirm. Display will state "MsgTone is Set" when done.



Radio Setting – Tone(PrivateCall)

- You can use a special tone when receiving a Private Call.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Tone", press MENU to enter. Use arrows to select "PrivateCall" press MENU
- Display will state "PrivateCall / Ring 1". Use the arrows to select the ringtone (Display will show "Ring 1~5", tone playback will occur during scrolling) and press MENU to confirm. Display will state "PrivateCall is Set" when done.



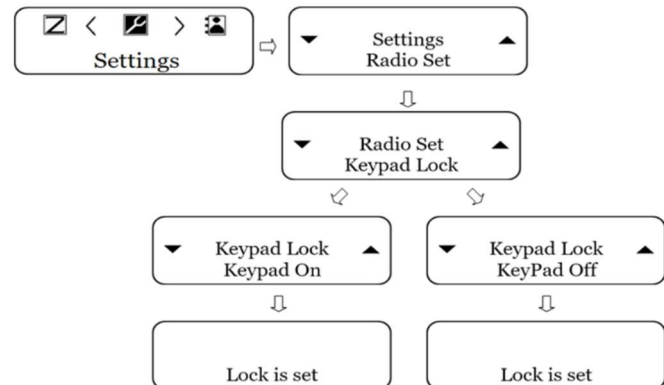
Radio Setting – Tone(GroupCall)

- You can use a special tone when receiving a Private Call.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Tone", press MENU to enter. Use arrows to select "GroupCall" press MENU
- Display will state "GroupCall / Ring 1". Use the arrows to select the ringtone (Display will show "Ring 1~5", tone playback will occur during scrolling) and press MENU to confirm. Display will state "G-Tone is Set" when done.



Radio Setting – KeyPad Lock

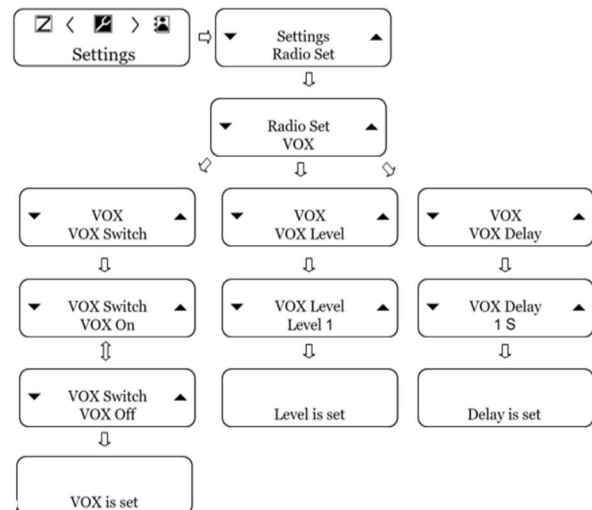
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Keypad Lock", press MENU to enter menu.
- Use arrows to select Keypad On or Keypad OFF, and press 'MENU' to confirm selection. Display will state "Lock is Set" when done.



Radio Setting - VOX

VOX Switch (turn VOX ON or OFF)

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "VOX", press MENU.
- Use arrows to select "VOX Switch", press MENU.
- Use arrows to select "VOX On" or "VOX Off"
- Press MENU to confirm your selection. Display will state VOX is set when done.



VOX Level (Loudness level setting for VOX to work)

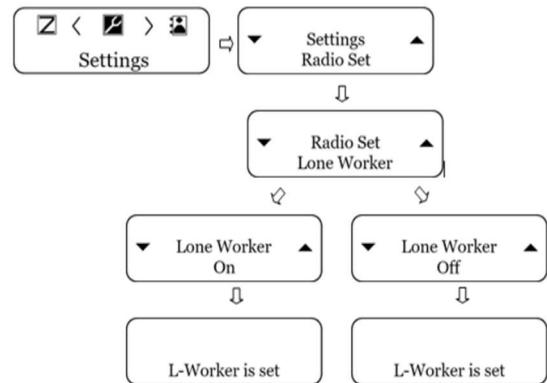
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "VOX", press MENU.
- Use Arrows to select "VOX Level", press MENU.
- Use arrows to change the VOX level (1-5). Press 'MENU' to confirm. Display will state "Level is set" when done.

VOX Delay

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "VOX", press MENU.
- Use Arrows to select "VOX Delay", press MENU.
- Use arrows to change the degree of VOX Delay (1-4 seconds). Press 'MENU' to confirm. Display will state "Delay is set" when done.

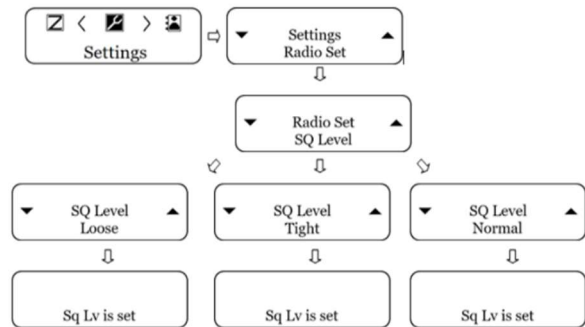
Radio Setting –Lone Worker

- Lone Worker is a Safety Feature that turns on an alert if you do not respond to your radio.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Lone Worker", press MENU.
- Use arrows to select ON or OFF, and press MENU to confirm.
- Display will state L-Worker is Set when done.



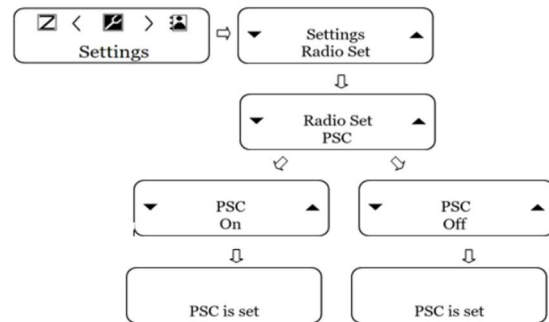
Radio Setting –SQ Level

- You can adjust your squelch level to reduce background noise or eliminate interference.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "SQ Level", press MENU.
- Use arrows to select your squelch level: "Loose", "Tight", "Normal", press MENU to confirm.
- Display will state Sq Lv is set when done.



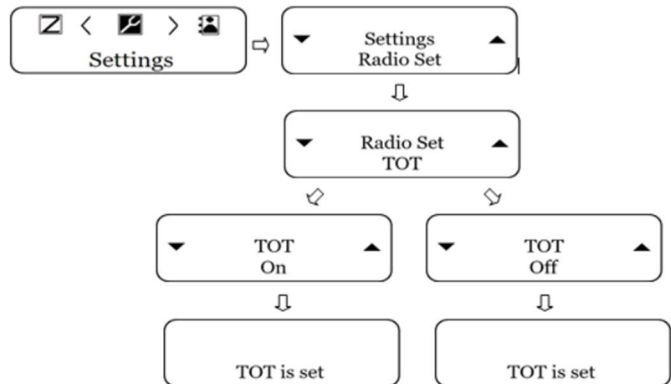
Radio Setting –PSC

- You can adjust the power consumption of your radio. ***Turning on might affect RX reliability.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "PSC", press MENU.
- Use arrows to turn power saving on or off.
- Radio will state "PSC is set" when done.



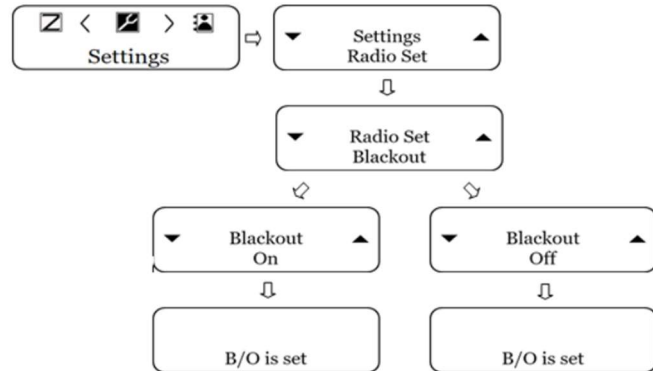
Radio Setting – TOT (Time Out Timer)

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "TOT", press MENU
- Use arrows to turn "TOT" On or OFF. Press MENU to confirm your selection.
- Display will state TOT is set when done.



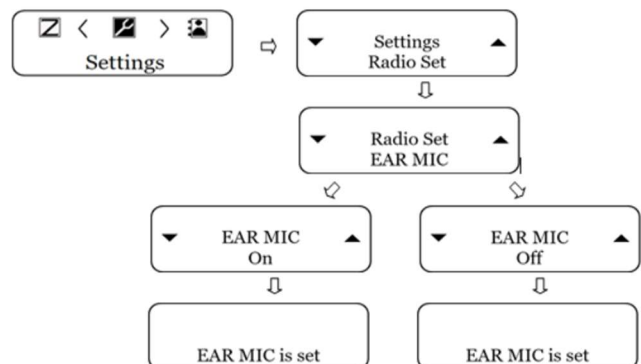
Radio Setting - Blackout

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Blackout", press MENU
- Use arrows to turn Blackout ON or OFF. Press MENU to confirm your selection.
- Display will state B/O is set when done.



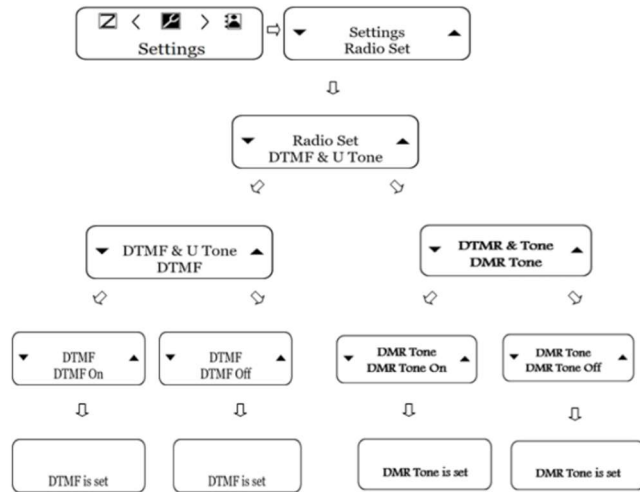
Radio Setting – EAR MIC

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "EAR MIC", press MENU
- Use arrows to turn EAR MIC ON or OFF. Press MENU to confirm your selection.
- Display will state EAR MIC is set when done.



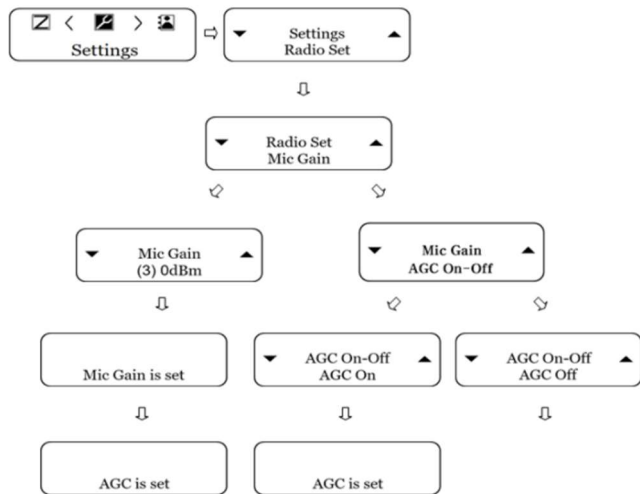
Radio Setting - DTMF & U Tone

- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "DTMF & U Tone", press MENU
- Use arrows to select "DTMF", press MENU
- Display will show "DTMF On", "DTMF Off".
- Use arrows to change the setting to "DTMF On" or "DTMF Off".
- If you set DTMF On when setting MDP-5000 Tone, DMR Tone is automatically turned off.
- If you set DMR Tone on when setting MDP-5000 Tone, DTMF will be automatically turned off.
- Press MENU to make your selection.
- Display will state either "DTMF is Set" or "DMR Tone is set" when the setting is saved.



Radio Setting - Mic Gain (Auto Gain, Digital Mode Only)

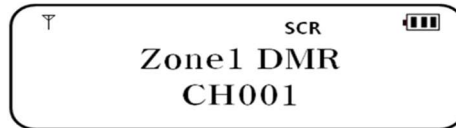
- Used to automatically adjust gain to increase audio/reduce static on weak signals or reduce distortion on strong signals.
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Mic Gain", press MENU
- Display will show current level (ie: "(1) ~ (5) x dBm", "AGC On-Off")
- Use arrows to change to the desired setting, press MENU to confirm your selection.
- For AGC-ON/Off, press MENU to enter its menu and arrows to turn feature On or OFF. Press MENU to confirm your selection.
- Display will state "Mic Gain is Set" or "AGC is Set" when your selection has been confirmed.



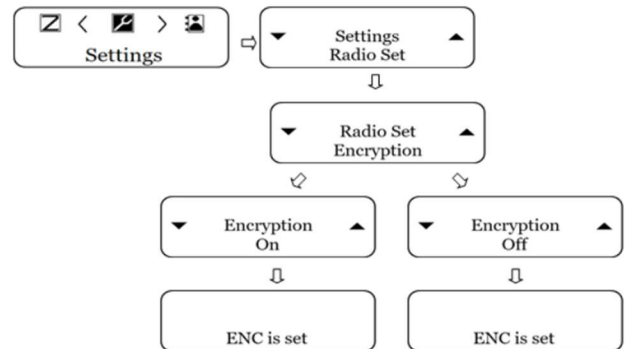
Radio Setting - Encryption

Secure Call

This is a powerful security feature that prevents third parties from listening to your calls.
 AES: Encryption possible in 128bit, 192bit, 256bit. Up to 30 encryption keys can be stored.
 It can be set in advance using the CPS program, and can be set by the user in menu mode.

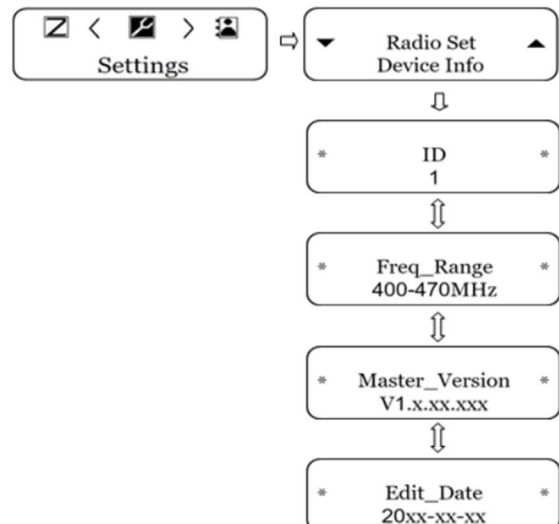


- Encryption codes must be programmed into the radio w/CPS software for feature to work.
- To turn on/off, press MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter.
- Use arrows to select "Encryption", press MENU.
- Display will state Encryption On / Off. Use arrows to change to desired setting. Press MENU to confirm your selection.
- Display will state ENC is set when selection is saved.



Settings - Equipment Version Information

- Press MENU and arrow keys to get to "Settings" menu. Press MENU
- Use arrows to select Device Info, Press MENU
- You are in the Device Info menu, use the arrows to scroll and display the Radio's ID, frequency range, master version, and modification date.



6.22 License Option Functions

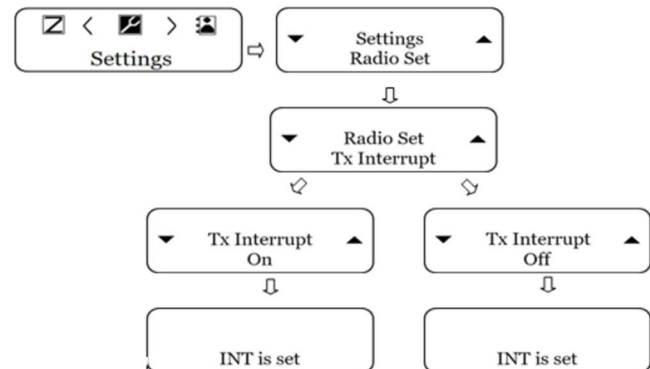
These features can be used by adding additional options aside from common functions. Please contact your Maxon dealer for more information.

TX Interrupt (Digital Channel Only)

- This function allows a user to break into a transmitting radio's conversation when enabled.
- Allows transceivers with interruption rights to transmit first.
- Interruption only works on the same model radio.
- You can use the interrupt function by selecting it in the CPS and through the "Menu Settings" on the radio. Both the transmitter and the target receiver must have TX interrupt enabled.

Radio Setting – Tx Interrupt (Option)

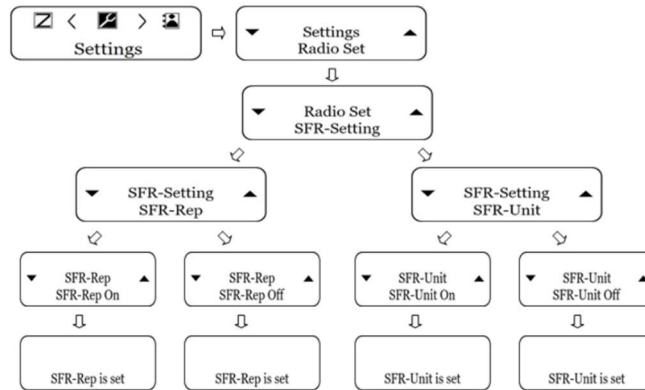
- Press 'MENU' and arrow keys to get to "Settings" menu. Press MENU again at "Radio Set" to enter
- Use arrows to select TX Interrupt, press MENU
- Display will state TX "Interrupt On" or "TX Interrupt Off". Use arrows to change to your desire setting and press MENU to confirm.
- Display will state "INT is set" when setting is saved.



SFR (Single Frequency Repeater – Digital Channel Only)

- This function allows you to use a simplex channel as a repeater.
- Please contact your Maxon dealer to activate this feature.
- In CPS program channel settings, select "SFR Rep" for the transceiver to be used as a repeater, and select "SFR Unit" for the transceivers to be used in relay mode.
- You can also set it in the transceiver's menu settings. In the transceiver settings, go to the "Settings /

Radio Set / SFR-Setting” then select “SFR-Rep” for the transceiver to be used as a repeater and “SFR-Unit” for the transceiver to be used in relay mode.




Radio Setting – SFR (Option)


- Press MENU and arrow keys to get to “Settings” menu. Press MENU again at “Radio Set” to enter
- Use arrows to select “SFR Setting”, press MENU
- Use arrows to select “SFR-Rep” or “SFR-Unit”, press MENU to confirm.
- If you’ve selected “SFR-Rep”, your setting selections will be On/Off. Use the arrow button to change the setting and press MENU to confirm. Display will state “SFR-Rep is set” when setting is saved.
- If you’ve selected “SFR-Unit”, your setting selections will be On/Off. Use the arrow button to change the setting and press MENU to confirm. Display will state “SFR-Unit is set” when setting is saved.

※ Understanding the Product


- Be sure to read and understand the user manual before using this equipment.
- Features may be changed without prior notice to improve product performance.
- The copyright of the user manual belongs to Maxon America Inc. and unauthorized reproduction in whole or in part is prohibited.
- Screens and pictures in the user manual may differ from the actual product.
- If you have any questions about the contents of the user manual, please contact a local dealer or Maxon America.




Do not use the radio if antenna has been removed, modified, or altered. The transceiver generates strong transmitter waves through the antenna, alteration of the antenna may reduce the transceiver's performance and cause serious damage to the radio.




Use only rechargeable batteries, adapters, external speakers/microphones and earphones that are designed for the MDP-5000. Therefore, using third-party products may not only damage the battery but also cause malfunction or breakdown of the device.



Do not use it for any purpose other than the prescribed communication.



Do not disassemble or modify the transceiver. If service is needed, return to an authorized repair center.




Do not use the transceiver by changing its frequency to anything other than the designated frequency. (Subject to legal punishment)


- ※ Avoid subjecting the transceiver to severe shock.
- ※ When using or storing the transceiver, avoid direct sunlight or places with high humidity.
- ※ Do not short-circuit or subject the battery to strong shock.
- ※ When moving at high speeds, the quality of transmission and reception may deteriorate due to rapid changes in the transceiver wave environment. If possible, use it in a stationary state.


Matters affecting the operation of transceivers or other devices

Because transceivers generate strong transmitter waves and detect weak receiving waves, the operation of

other electronic devices may be affected.

	Turn off your transceiver when boarding an aircraft. When using it, follow the rules of the aircraft or the instructions of the flight attendant.
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	Before using medical equipment, check with the medical equipment manufacturer or doctor in charge to determine whether electromagnetic waves are affected.
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	Avoid using it near various electronic devices, such as computers. The strong transmitter waves from the radio may cause damage to electrical and electronic devices.
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※ Electronic and electrical devices generate various electromagnetic waves. The effects of these electromagnetic waves may occasionally cause unwanted reception. (Example) Fluorescent lights, computers, monitors, vending machines, etc.

Safety precautions

The following information provides guidance and instructions for the safe, and effective use of your transceiver. Please be sure to read it.

	When using a walkie-talkie, keep it at least 1 inch (2.5 cm) away from your body.
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	The antenna coating may be damaged and cause burns if it touches the skin.
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	If a conductive metal (key, necklace, etc.) touches the battery, heat may be generated and burns may occur. Be especially careful when storing batteries in pockets or bags.
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If you want to use it while driving, check if there are any regulations regarding the use of transceivers while driving and refrain from using them as much as possible. You can reduce the risk by using separate accessories such as an ear/microphone.



Do not listen at too high a volume. This may affect your hearing.



When using in an explosion hazard area, only devices that have passed the explosion proof test can be used. Do not remove, replace, charge or discharge the battery within the hazard zone. Electrical sparks may cause burns or death.



Turn off the transceiver near workplaces where electromagnetic explosions occur.