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TPD-1000 SERIES

Professional Digital and Analog Radio

User Manual

Welcome

Thank you for your purchase and welcome to the Maxon family of products. We proudly offer a 3 year warranty on the radio section to insure that you are confident with your purchase for years to come.

As a product built to the Digital Mobile Radio (DMR) standards, the TPD-1000 series of radios provide the latest in digital technology with user-friendly ergonomics and the highest in production standards to provide you stable and reliable communications.

Please read this manual and familiarize yourself with the radio before use.

Safety Information

Please read the following safety guidelines. Nonobservance of these guidelines may cause danger or violation of law.



Warning

Don't transmit with antenna detached from the radio or don't damage or change antenna type. Strong electronic waves are emitted from the radio and damages or changes to the antenna may effect the performance of the radio, and it may cause the radio to be defective and not covered under warranty.



Warning

Don't use other manufacturers' accessories. Unknown or unauthorized accessories may cause the radio to be defective and void the warranty.



Warning

Don't disassemble the radio. Disassembly of the radio may cause a serious defect or malfunction and void the warranty.



Warning

Avoid an excessive shock to the radio.
Don't place the radio where the direct sunlight or high temperature occurs.
Avoid damage to the battery pack by sharp object or an excessive shock.



Warning

Turn off the radio before boarding on an airplane.
Don't use the radio in the hospital without any pre-approval.
Don't use the radio at the place of where computer or other electronic devices are being used.



Warning

- Please keep the radio at least 1 inch away from the human body.
- Don't give any damage to antenna.
- When using earphone, please reduce the volume to a low level. If not, unexpected high sound may have harmful effect to your ear.
- Don't touch the conductive metal of the battery radio with wet hands. It may cause damage on your hands.
- Please be careful when putting the battery in a pocket or a bag.

FCC RF EXPOSURE COMPLIANCE REQUIREMENTS FOR OCCUPATIONAL USE ONLY

The Federal Communications Commission (FCC), with its action in General Docket 93-62, November 7, 1997, has adopted a safety standard for human exposure to Radio Frequency (RF) electromagnetic energy emitted by FCC regulated equipment. Proper operation of this radio will result in user exposure far below the Occupational Safety and Health Act (OSHA) and Federal Communications Commission limits.

- **DO NOT** transmit for more than 50% of total radio use time (50% duty cycle). Transmitting more than 50% of the time can cause FCC RF exposure compliance requirements to be exceeded.
- 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 radio operator must have the knowledge to control the user's exposure conditions for satisfying the higher exposure limit allowed for occupational use.
- When transmitting, hold the radio in a vertical position with its microphone 1 inch (2.5cm) away from your mouth.
- The radio is transmitting when the red LED on the front of the radio is illuminated. You can cause the radio to transmit by pressing the PTT bar on the radio.
- These are required operating configurations for meeting FCC RF exposure compliance. Failure to observe these restrictions mean violation.

FCC Notice

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

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Safety Matters

Please read the following safety guidelines. Nonobservance of these rules may cause danger or violation of law.

- The use of this radio must comply with regulations of local government.
- Turn off the radio before you enter places of flammable or explosive environments.
- Do not replace or charge battery pack in places of flammable or explosive environments.
- Turn off the radio before you approach blast area and /or detonator area.
- Do not use if the antenna is broken as it may cause minor burn to skin.
- Only qualified technicians are allowed to maintain this two-way radio. Do not disassemble the radio by yourself as it will void the warranty.

- To avoid problems caused by electromagnetic interference or electromagnetic compatibility, please turn off the radio in places with "Wireless Communication Transmit Equipment Prohibited" posted, such as hospitals or other health care places. When taking a plane, turn off the radio if required.
- In a car with an air bag, do not place the radio within area where air bag expands.
- Do not expose the radio to direct sunlight or near heating devices for a long period of time.
- Keep the radio vertical and speak near the microphone during transmitting.
- Make sure that the antenna is 1" (2.5 cm) away from the body if you carry the radio on your body.

Product Inspection

Thanks for choosing the Maxon TPD-1000 Series radio. Before use, please check that the following contents are included.

If any item is missing or damaged, please contact your Authorized Maxon Dealer.

Items



Radio TPD-1000
Qty: 1



Antenna
Qty: 1



Li-Ion Battery
Qty: 1



Charger
Qty: 1



Adapter
Qty: 1



Lanyard Strap
Qty: 1



Belt Clip
Qty: 1



User Manual
Qty: 1

Note: For antenna identification, the frequency is marked on the color circle at the bottom of the antenna.

Getting Started

Battery Information

Please operate with Maxon approved battery only; Using other batteries may cause personal damage and void the warranty.

Note:

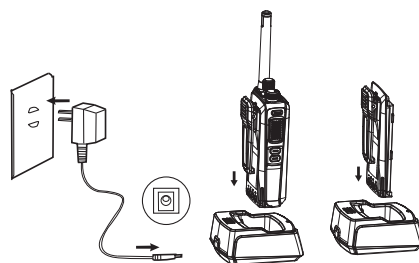
1. Do not short-circuit the battery terminals or dispose the battery in fire. Never attempt to disassemble the battery pack.
2. Charge the battery in 32 - 90 F (0-45 °C) temperature. Otherwise the battery may not obtain full charge.
3. Turn off the radio for optimum charging.
4. Do not charge if the battery or radio is wet. Both battery and radio should be dry to avoid danger.

Warning:

Treat any battery carefully when placing into pocket, wallet, or any metal container. Conductive metals such as jewelry, keys, or decorating lace can create a short circuit when coming in contact with battery electrodes causing a large amount of heat.

Charge Operation

Please charge as follows:



1. Turn off the radio. Plug the DC connector of adapter into the DC jack on the rear of the charger.
2. Plug the AC connector of adapter into an AC outlet.
3. After the charger is powered, the LED glows red for 1 second and then goes out. This indicates the charger is ready for normal charging. If the LED flashes red continuously, the charger has encountered an error and will need servicing.
4. Insert the battery or radio equipped with battery into the charger. Make sure the battery has a proper connection with the charger electrodes.
5. LED glows red during normal charging; if LED flashes red this indicates trickle charging because of very low battery condition. After the battery reaches a certain amount of capacity from trickle charge, the charger automatically turns to normal charge mode.
6. The battery is fully charged when LED glows green.

Battery Charging Notes

1. The battery is not charged at the factory. Please charge the battery before initial use or after extended period of storage.
2. For new batteries, repeat the charging process 2 to 3 times to obtain the best capacity.

3. Batteries will eventually need replacement, if low battery is indicated quickly after if it has been fully and correctly charged, this normally means the battery needs to be replaced. Please contact your Authorized Maxon Dealer for information.

Antenna Information

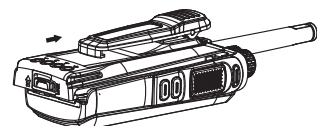
- Antenna length has a factor on distance of communication.
- The communication range can be shortened based on environmental or weather related issues such as rainy days or dense forest.

Attaching and Removing

Attaching the Battery

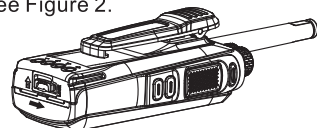
Match the two grooves of battery with corresponding guides on the back of the radio. Make sure that full contact is made between the battery and radio chassis.

Push the battery up along the guide until the battery latch locks. See Figure 1.



(Figure 1)

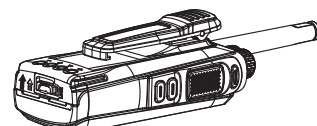
Push the battery latch towards the word "Lock" to lock it. See Figure 2.



(Figure 2)

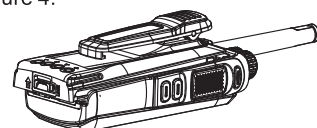
Removing the Battery

To remove the battery, first make sure the radio is turned off, then push the battery latch in the opposite direction of the word "LOCK" to unlock it, and push the battery latch downwards. See Figure 3.



(Figure 3)

Slide the battery down and away from the radio. See Figure 4.



(Figure 4)

Attaching the Antenna

Insert the antenna into the connector on the top of radio by holding the antenna at its base.

Rotate the antenna clockwise to fasten it. See Figure 5.

IMPORTANT: Do not over tighten antenna as it will cause damage to the radio.



(Figure 5)

Removing the Antenna

Rotate the antenna counter clockwise until you can remove it. See Figure 6.



(Figure 6)

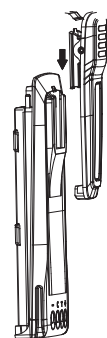
Attaching Belt Clip

Match the grooves of belt clip with those on the rear of radio and press the belt clip downwards until it is locked. See Figure 7.

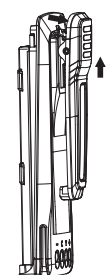
Removing Belt Clip

Lift the metal spring piece in the belt clip from topside and pull the belt clip upward from the battery pack. See Figure 8.

Note: For ease of installation and removal of belt clip, remove the battery from the radio.



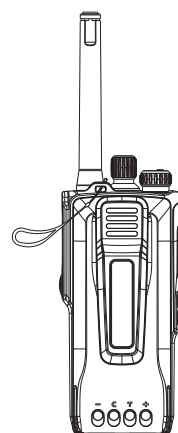
(Figure 7)



(Figure 8)

Attaching Hand Strap

Thread the strap into the hole at the back of the radio and fasten it.



Attaching the Audio Accessory

1. Remove the screw on the accessory jack cover, open the accessory jack cover as show below.
2. Align the plug with the accessory jack.
3. Tighten the screw on the plug.

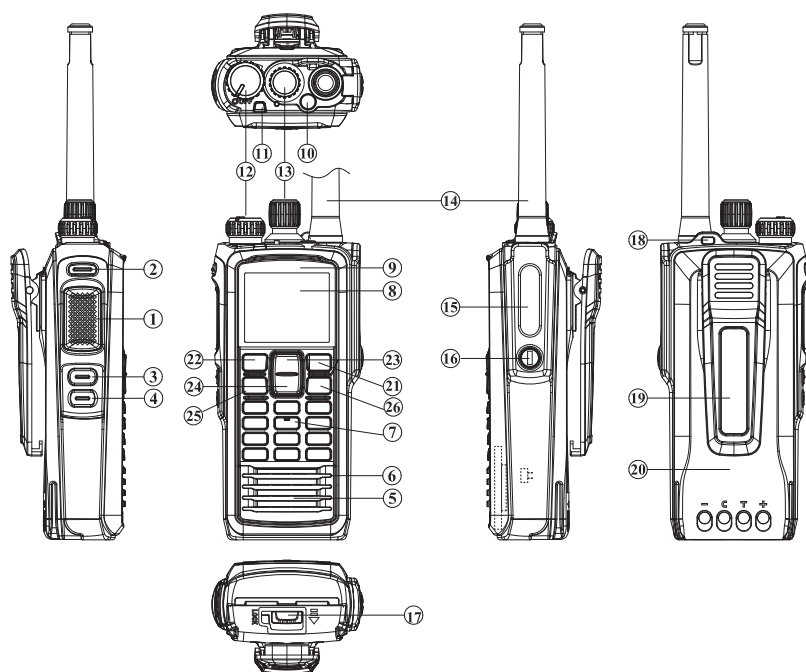


Removing the Accessory

To remove accessories, loosen the screw as figure shown below.



Radio Overview



1. Push-To-Talk (PTT Key)
2. Side Key 1 (SK1)
3. Side Key 2 (SK2)
4. Side Key 3 (SK3)
5. Speaker
6. Microphone
7. Alphanumeric Keypad
8. LCD Display
9. Nameplate
10. Top Key (TK)
11. LED Indicator
12. Radio On-Off/Volume Control Knob
13. Channel Selector Knob
14. Antenna
15. Accessory Jack
16. Accessory Screw
17. Battery Latch
18. Strap Hole
19. Belt Clip
20. Battery
21. Back/Option Key
22. Select/Menu Key
23. Up Key
24. Down Key
25. Programmable Key 1 (P1)
26. Programmable Key 2 (P2)

Status Indicators

LCD Icons

Icon Name	Icon	Radio Status
RSSI	📶	No signal;
	📶📶📶📶📶	More bars indicate better signal strength;
Message Icons	💬	New Message/Unread Message;
	📧	InBox is full;
Scan Icons	🔄	Scanning is in progress;
	🔄	Scanning paused on Non-Priority Channel;
	🔄	Scanning paused on Priority Channel 1;
	🔄	Scanning paused on Priority Channel 2;
Tx Power Icons	📶	Low Tx power for the current channel;
	📶	High Tx power for the current channel;
Battery Level Icons	🔋	More bars indicate more battery power;
Monitor Icon	🔊	The feature "Monitor" is active;
Speaker Icon	🔊	The speaker is unmuted;
Emergency Icon	🚨	The Emergency mode (other than secret emergency) is active or an emergency message is received;
Accessory Icon	🔌	An accessory is connected;

LED Indicator

The top LED indicator will help you easily identify current radio status.

LED Indicator	Radio Status
LED flashes green.	Powering on
LED flashes red.	Transmitting
LED flashes green.	Receiving
LED flashes orange.	Scanning

Operation Mode Icons

Icon Name	Icon	Operation Mode
Operation Mode Icons	DM	Direct Mode Operation: Under this mode, radios communicate with each other directly.
	RM	Repeater Mode Operation: Under this mode, radios communicate with each other via repeater

Programmable Keys

For enhanced convenience, you may request your dealer to program the keys SK1, SK2, SK3, P1, P2, and TK as shortcuts to the functions listed below:

No.	Shortcut Keys	Description
1	None	No feature will be assigned.
2	Zone Down	To select a desired zone quickly
3	Zone Up	To select a desired zone quickly
4	Scan	To receive signals on other channels
5	Nuisance Temporary Delete	To temporarily ignore unwanted channel activity
6	Emergency On	To summon help in emergency situations
7	Emergency Off	Emergency function is off
8	Adjust Power Level	To adjust power level
9	Keypad Lock	To lock or unlock the keypad
10	Contact List	To access the Menu "contact list" quickly
11	Message	To access the Menu "Message" quickly
12	Call Logs	To access the Menu "Call logs" quickly
13	Adjust Squelch Level	To adjust the squelch threshold required for the speaker to unmute
14	One Touch Call 1	To transmit a call, short message or other service to a preset contact quickly
15	One Touch Call 2	To transmit a call, short message or other service to a preset contact quickly
16	One Touch Call 3	To transmit a call, short message or other service to a preset contact quickly
17	One Touch Call 4	To transmit a call, short message or other service to a preset contact quickly

No.	Shortcut Keys	Description
18	One Touch Call	To transmit a call, short message or other service to a preset contact quickly
19	Squelch Off Momentary	To momentarily open the speaker
20	Squelch Off	To always open the speaker
21	Monitor	To adjust the condition for incoming signal match
22	Talk Around	To directly communicate with other radios
23	Home Screen	To quickly return to the previous menu or home screen
24	Scramble/Encrypt	Scramble: To encrypt your voice so as to guarantee privacy of your communication Encrypt: To encrypt your voice and message so as to guarantee privacy of your communication
25	VOX	To enable or disable the VOX function

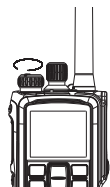
Note: (1) Long and short press of a key can be assigned with different functions by your dealer.

(2) The TK key is programmed as the Emergency Key by default, and is programmable by your dealer.

Basic Operations

Turning the Radio On/Off

Rotate the On-Off/Volume Control knob clockwise/ counter-clockwise until a click is heard to turn the radio on/off.



Adjusting the Volume

After turning the radio on, rotate the Radio On-Off/Volume Control knob clockwise to increase the volume, or counter-clockwise to decrease the volume.



Selecting a Zone

A zone is a group of channels exhibiting the same property, and is programmed by your dealer. The radio supports up to 64 zones, each with a maximum of 16 channels. You may select a zone through any of the following methods:

1. Through menu selection - Go to the menu "Zone", and use the Up/Down keys to select your desired zone.
2. Through the function keys - You may quickly toggle to your desired zone by pressing the programmed Zone Up or Zone Down key.

Selecting a Channel

Rotate the Channel Selector knob to select a channel from CH01-CH16 according to the number shown at the bottom of the channel selector.

Digital/Analog Switch

Each channel can be programmed as either analog or digital channel. If the current zone includes both analog and digital channels, you may quickly switch between digital and analog through the Channel Selector knob.

Locking/Unlocking the Keypad

When the keypad is not in use, you can lock the keypad to prevent accidental keypad operation. Three methods are available for you to lock or unlock the keypad:


1. Through key combination
Go to Option->Manual Lock, and then select to enable;
Press [Menu]+[*] to unlock the keypad.
2. Through the function key
Press the programmed Keypad Lock key to lock or unlock the keypad.
3. Through menu selection
Go to Settings -> Radio Setting -> Keypad Lock, and then select Enable or Disable.

Enable: The keypad will be locked automatically if no operation is made for the preset time period.

Disable: The keypad will not be locked automatically. However, you can lock or unlock the keypad via the key combination or Keypad Lock key mentioned above.

Private Call

Transmitting a Private Call

You may transmit a Private Call through any of the following methods. When transmitting a Private Call, the icon  will appear.

Transmitting a call to the preset contact

In standby mode, pressing PTT key will transmit an individual call to the contact (a Private Call number) preset for the current channel.

Note: Your dealer may preset a contact for each digital channel. The preset contact could be a Private Call number, a Group Call number or an All Call number.

Transmitting a call through Contact List or Call Logs

- 1) Go to Contact -> Contact List, or go to Call Logs -> Call List.
- 2) Use the Up/Down key to select the Private Call number you want to call.
- 3) Hold down PTT key to transmit a Private Call to the selected contact.

Transmitting a call through Manual Dial


- 1) Go to Contact -> Manual Dial.
- 2) Input a Private Call number you want to call.
- 3) Press PTT key to transmit a call.

Receiving and Responding to a Private Call

Responding to a Private Call, after a Private Call is received, you may press the PTT key within the preset time period to call back. If you do not respond to a received Private Call, the radio will display the missed call icon.

Group Call

Transmitting a Group Call

You may transmit a Group Call through any of the following methods. When transmitting a Group Call, the icon  will appear.

Transmitting a call to the preset contact

In standby mode, pressing PTT key will transmit a group call to the contact (a Group Call number) preset for the current channel.

Note: Your dealer may preset a contact for each digital channel. The preset contact could be a Private Call number, a Group Call number or an All Call number.

Transmitting a call through Contact List or Call Logs


- 1) Go to Contact -> Contact List, or go to Call Logs -> Call List.
- 2) Use the Up/Down key to select the Group Call number you want to call.
- 3) Hold down PTT key to transmit a Group Call to the selected contact.

Receiving and Responding to a Group Call


Responding to a Group Call, after a Group Call is received, you may press the PTT key within the preset time period to call back.

All Call

Transmitting an All Call

Methods are the same as those in Transmitting a Group Call. When transmitting an All Call, the icon  will appear.

Receiving an All Call

When an All Call is received, your radio will display the icon .

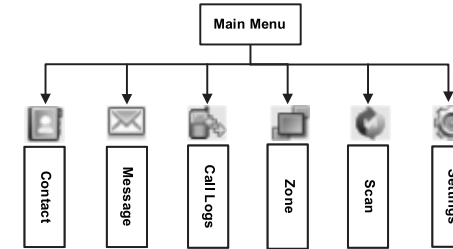
Making a Call

To make a call, hold down [PTT] key and speak into the microphone with normal voice. Please keep the microphone 1" (2.5-5cm) away from your mouth.

Note:

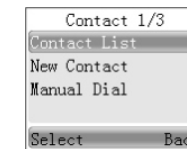
1. Hold down [PTT] key and the radio begins to transmit when LED glows red.
2. When the battery power is lower than normal battery power, the transmission is prohibited.

Menu Navigation



Contact

To access this item, press Menu key in idle mode and then select "Contact".



■ Contact List

You can save up to 512 entries in the list. To access this item, select "Contact -> Contact List" or press the shortcut key for Contact List.

Edit a Contact

You can edit the number and alias of each Private Call contact.

View a Contact

You can view details of each contact.

Delete a Contact

You can delete a Private Call contact. However, please note that you can not delete the contact when there is only one entry left in the list. In addition, the private contact preset on the digital channel cannot be deleted.

■ New Contact

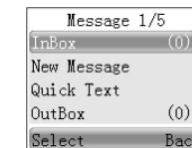
You can add a Private Call contact to the contact list. The number and alias of each contact must be unique, and the available number range is 1 to 16776415.

■ Manual Dial

You can manually input the private call number for calling.

Message

To access this item, press the Menu key in idle mode and then select "Message", or press the shortcut key for Message directly.



InBox

The InBox can save up to 10 received messages. When the InBox is full, the icon will appear, and the oldest entry will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Reply, Forward, View Details and Delete. To delete all messages in the InBox, select "Message -> InBox -> Delete All".

New Message

You can create your desired text message (128 characters maximum) and send it to an individual user or to a talk group.

Quick Text

Under this option there are "canned" text messages (10 entries maximum) preset by your dealer. You can also choose to edit and send your own entry.

OutBox

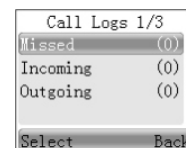
The OutBox can save up to 10 sent messages. When the OutBox is full, the oldest entry will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Reply, Forward and Delete. To delete all messages in the OutBox, select "Message -> OutBox -> Delete All".

Drafts

The Drafts can save up to 10 drafted messages. When the Drafts is full, the messages will be overwritten by the latest one automatically. For each message, you can choose to perform any of these operations: Send, Save and Delete. To delete all messages in the Drafts, select "Message-> Drafts->Delete All".

Call Logs

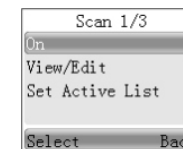
To access this item, press the Menu key in idle mode and then select "Call Logs", or press the shortcut key for Call Logs directly.



This radio can save up to 10 entries in the Outgoing List, Incoming List and Missed List respectively. When the memory for call logs is full, the oldest entry will be overwritten by latest one automatically. After accessing a list and selecting an entry, you can perform any of these operations: hold down the PTT key to initiate a call; view details or delete it. To delete all entries in Outgoing List, Incoming List or Missed List at a time, select "Call Logs -> Outgoing/Incoming/Missed -> Delete All".

Scan

To access scan, press the Menu key in home screen and then select "Scan".



Scan On/Off

The function "Scan" allows you to listen to communication activities on other channels so that you can keep a close track of your team members. This option is used to enable or disable the function.



Scan List

You can request your dealer to create a scan list for each channel. Each list may contain 32 channels at most (either digital channel or analog channel is OK). After accessing the list, you can perform any of the following operations:

Adding a Channel

To include a new channel into the active scan list.

Editing Priority Channel

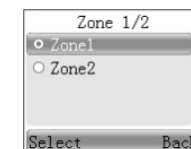
To set the selected channel as a non-priority or as a priority channel. If you are interested in activities on a channel, you can set it as a priority channel, which will be scanned more frequently than a non-priority channel. Each scan list may contain two priority channels at most.  indicates priority channel 1, and  indicates priority channel 2.

Deleting a Channel

To remove a channel from the active scan list. However, the first channel in the list can not be deleted.

Zone

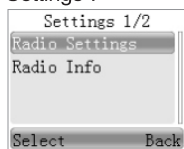
To access this item, press the Menu key in idle mode and then select "Zone".



The radio supports up to 64 zones. You can use this menu to select your desired zone.

Settings

To access this item, press the Menu key in idle mode and then select "Settings".





You can optimize your radio performance by customizing parameters according to your actual needs and preferences.

Radio Settings

Language

Sets the language in which all interface information is displayed. Currently, this radio supports the languages of Chinese and English.

Tx Power

This option allows you to set the transmit power level. Alternatively, you can change the power level by pressing the shortcut key for Adjust Power Level in idle mode. There are two levels available: High (indicated by ) and Low (indicated by ) .

Note: Power level can be set for each channel individually.

Lone Worker

This function triggers off the Emergency mode if the radio does not transmit for a pre-determined time period. This option allows whether to enable/disable the Lone Worker function.

Vibrate (Optional)

If vibrate is included, this option allows the user to enable/disable the feature. Please contact your Authorized Maxon Dealer for more information.

Keypad Lock

When "Keypad Auto Lock" is selected, you can use the Up or Down key to Disable or Enable.

When Enabled, you can select a time range after which the keypad will be locked. Available range is 5-60 seconds.

When "Manual Lock" is selected, the keypad can be locked or unlocked manually.

Tone

This allows you to enable/disable audible tones. The following tones can be set individually:

Radio Silent: Enables/disables audible tones indicating channel change, keypad push, etc. If Silent On is selected, all alerts will be off.

Low Battery Tone: Enables/disables whether the radio will give tone indication when the remaining battery level becomes low.

Call End Tone: to set whether the radio will give tone indication when the call ends.

Private Call Tone: to set whether the radio will give tone indication when the radio receives a private call.

Text Message Tone: to set whether the radio will give tone indication when the radio receives a text message.

Keypad Tone: to set whether the radio will give tone indication when you are making keypad operations.

Group Call Tone: to set whether the radio will give tone indication when the radio receives a group call.

Signaling Side Tone: to set whether the radio will give tone indication after PTT is pressed (during transmission of PTT ID).

Set Brightness

To set the display brightness, you can increase or lower it using the Up or Down key. Available range: Level 1 to 5.

LED

All LEDs: to enable /disable all LED indications.

TX LED: to set whether the Tx LED illuminates during transmitting.

RX LED: to set whether the Rx LED illuminates during reception.

Scan LED: to set whether the Scan LED illuminates in Scan mode.

Low Battery LED: to set whether the Low Battery LED illuminates when the battery is low.

Carrier LED: to set whether Carrier LED illuminates when receiving carrier.

Backlight

To set the backlight parameters. There are three options available: Off, On and Timed. Available range for the timed is 3 to 60 seconds.

VOX

If enabled, the VOX function allows users to transmit every time the user speaks into the microphone of the radio directly without pressing the PTT key.

Radio Password

When this option is enabled, users have to input the correct Radio Lock Password to operate the radio.

Radio Info

With this option, you can view the basic information of your radio, including Serial Number, Radio Alias, Frequency Range, Firmware Version, Radio Data Version, and Last Programmed Date.

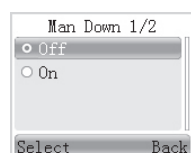
Accessories (Items only appear when installed)

To access this item, press the Menu key in idle mode and then select "Accessories".



Man Down (Optional)

With this feature, an alarm will automatically send an alert indicating that the user may have an emergency. Contact your Authorized Maxon Dealer for more information.



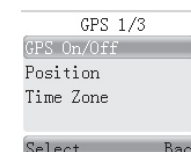
Operation:

- To enable the feature
Go to "Main Menu-> Accessories->Man Down" and select "on"; or Press the programmed Man Down key (a high-pitched tone sounds); or turn on the radio if the feature is enabled via the programming software.
- Your radio will sound a pre-alert tone if it is positioned aslant for a preset time period, and will enter the Emergency mode if you do not place it vertically within such time period. To exit the Emergency mode, place it upright.
- To disable the feature
Go to "Main Menu-> Accessories->Man Down" and select "off"; or Press the programmed man down key (a low-pitched tone sounds).

GPS (Optional)

Operation:

- To enable the feature:
Go to "Main Menu-> Accessories->GPS On/Off->off or on" and select "on".
- To disable the feature:
Go to "Main Menu-> Accessories->GPS On/Off->off or on" and select "off"



Position

With this option, you can view longitude, latitude, time, date, speed, altitude and SA (satellite) information of your radio.



Time Zone

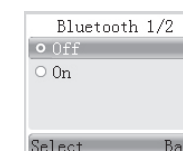
Users can select a desired time zone from the drop-down list. The radio adjusts its time according to the selected time zone.

GPS Update Time

This option defines the time interval to update the GPS information Range: 1 – 60 seconds.

Bluetooth (BT) (Optional)

This option decides whether to allow the  option, through which users can enable or disable the  feature on the radio's interface.




BT is a kind of wireless technology that supports short-distance (generally within 10 meters) communications and information exchange between devices such as mobile phones, PDAs, wireless earpieces, laptops, etc.

This feature must be enabled for working with a wireless earpiece.

Option Description

On: The  icon will be displayed on the screen.

Off: The  icon will not be displayed on the screen.

Microphone Auto Gain Control (AGC)

If enabled via the programming software, your radio will process the audio signals during transmission, providing improved audio for the receiving radio.

Functions and Operations

Home Screen

The feature allows you to quickly return to the previous menu or the home screen.

Operation

In the editing screen, press an [Option] Key, then the radio exits the screen and returns to the previous menu; in other screens, press an [Option] key, then the radio returns to the home screen.

Scan



The "Scan" feature allows you to listen to communication activities on other channel. Contact your Authorized Maxon Dealer for the options available.

Scan Operation

1. To enable the feature, you can select "On" from the menu "Scan"; or Press the programmed Scan key in standby mode; or switch to a channel for which the feature "Auto Scan" is enabled via the programming software.
2. After the feature is enabled, your radio will scan according to the scan list set for the channel on which scanning starts.

The scanning process is as follows:

- During scanning, the LCD displays the scan icon and LED flashes orange.

- When activities are detected on a channel, the radio will stay on the channel to receive current activities. If your radio stays on a non-priority channel, LCD will display icon ; if on Priority Channel 1 or Priority Channel 2, LCD will display icon  or icons respectively.

- If you don't want to hear activities on the channel, press the programmed Nuisance Temporary Delete key to remove the channel from the scan list.

- If you want to continue staying on the channel, press the programmed Monitor or Squelch Off key during receive.

To exit the scanning process, you can select "Off" from the "Scan" menu, or press the programmed Scan key again.

Talk Around (TA)

You can continue to communicate in DM mode by pressing the programmed Talk Around key. Contact your Authorized Maxon Dealer for more information.


TA Operation

Press the programmed Talk Around key to switch between DM mode and RM mode.

Monitor (Analog Only)

The monitor function bypasses the programmed signaling on a channel.


Monitor Operation


- Press the programmed Monitor key to enable the feature, and the radio displays icon . To disable the feature, press this key again.

Squelch Off

If the feature "Squelch Off" is enabled, your radio's speaker will keep unmuted no matter whether carrier is present.


Squelch Off Operation


- Press the programmed Squelch Off key to enable the feature. Then the radio displays icon  and sounds background noise. To disable the feature, press this key again.

- Press the programmed Squelch Off Momentary key to enable the feature. Then the radio displays icon  and sounds background noise. To disable the feature, release this key.

Operation Methods for Digital Emergency

Emergency Alarm with Voice to Follow Operation

1. Press the programmed Emergency key to go to the Emergency Revert Channel, and the radio displays the icon .
2. When the icon appears, you can speak into the microphone to make an emergency call.
3. When a call is received, the icon appears. If the preset voice cycles expire, you can press the PTT key to make the emergency call again (the radio displays the icon, with LED showing red).

After the emergency call is transmitted, please release the PTT key to receive (the radio displays icon ). When a call is received, icon appears. To exit the Emergency mode, long press the programmed Emergency key.

Contact your Authorized Maxon Dealer for more information concerning the time of voice cycles, duration of each transmission, and Tx intervals.

Busy Channel Lockout

If enabled via the programming software, this feature can prevent your radio from interfering with other radios transmitting on the same channel. If you hold down the PTT key while the channel is in use, your radio will sound an alert and display text information "Channel Busy", advising you that transmission is prohibited. To stop alert, release the PTT key.

Time-Out Timer (TOT)

The purpose of TOT is to prevent any user from occupying a channel for an extended period. If the preset time expires, the radio will automatically terminate transmission and maintain the alert. To stop the alert, please release the PTT key. You must wait for a certain time period before you can press and hold down the PTT key to transmit again. If the pre-alert function is set, the radio will alert the TOT expiration in advance. Contact your Authorized Maxon Dealer for more information.

Note: This feature is null in Emergency mode.

Invalid Channel Indication

If current operating channel is an invalid channel, the radio will send a continuous alert tone, which means the current channel is unable to transmit or receive.

Squelch

Setting the squelch level decides how strong the signal is needed to un-mute the receiver.

Setting range is 0~9, selecting "0" causes the squelch to open easily. The higher the squelch level, the harder to open the squelch.

Optional Accessories

Optional accessories and replacement parts are available through your Authorized Maxon Dealer.

Those items include:

VHF antennas (with optional GPS)
UHF antennas (with optional GPS)
Batteries
Belt Clips
Audio Accessories
Single unit chargers
Six unit gang chargers
Carrying cases
Programming Cable
Programming Software

Troubleshooting Guide

Issue	Analysis	Solution
The equipment can not be powered on.	The battery may be improperly installed.	Remove the battery and attach it again.
	The battery may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by tarnished or damaged battery contacts.	Clean the battery contacts. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
During receiving signals, the voice is weak, discontinuous or totally inactive.	The battery strength may be too low.	Recharge or replace the battery.
	The volume may be set to a low level.	Increase the volume.
	The antenna may be loose or improperly installed.	Power off the radio, and re-install the antenna.
	The speaker may be blocked or damaged.	Clean surface of the speaker. If the problem can not be solved, contact your dealer or authorized service center for inspection and repair.
You can not communicate with other members.	The frequency or signaling may be inconsistent with that of other members.	Set your TX/RX frequency and signaling to the same as that of other members.
	The channel type (digital/analog) may be set inconsistently.	Make sure all members are on the same digital/analog channel.
	You may be too far away from the group members.	Move closer towards other members.
Irrelevant communications or noises are heard on the channel.	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.
	The radio may not be set with any signaling.	Set signaling for all member radios to avoid interference at the same frequency.

Care and Maintenance

To increase the life of your radio, please take note of the following:

- Do not hold or carry the radio by the antenna or external audio accessories.
- Use mild detergent and or warm water (not corrosive chemicals) to clean the casing.
- Do not throw, hit or vibrate the radio. This may cause damage to the inner IC or other elements and void the warranty.
- Use only original Maxon parts or accessories. Use of non-approved parts or accessories may cause damage to the radio and void the warranty.
- Use lint-free cloth to clean the LCD display.
- Cover the audio accessory jack when not using audio accessories.



Note:

All recommendations above also refer to your battery, charger and accessories.

Warranty Statement

Maxon America, Inc. offers to the original end user:

Three (3) Year Limited Warranty on Maxon TPD-1000 Series radios (separate warranty period on accessories).

One (1) Year Limited Warranty on Accessories (includes, but not limited to, batteries, antennas, belt clips, chargers, audio accessories, nylon cases, leather cases, etc.) .

Maxon warrants each new radio product manufactured or supplied by it to be free from defects in material and workmanship under normal use and service for the time period stated, provided that the user has complied with the requirements stated herein. The warranty period begins on the date of purchase from an Authorized Maxon Dealer. This warranty is not assignable or transferable. This warranty is void if the product serial number is altered, defaced or removed. Maxon is not responsible for any equipment that is attached to or used in conjunction with our products.

During the warranty period, if the product fails to function under normal use, because of manufacturing defects or workmanship, it should be returned to the Authorized Maxon Dealer from which it was purchased. The Authorized Maxon Dealer will repair the product or return the product for repair to Maxon or its Authorized Repair Depot. The user is responsible for the removal of the product from a vehicle or any equipment attached to it, or other site of its use; transportation of the product to the Authorized Maxon Dealer; for the return of the repaired or replacement product to the site of its use and for the reinstallation of the product.

Maxon shall have no obligation to make repairs or replacement of product which results from normal wear and tear, or is necessitated by catastrophe, fault, or negligence of the user, improper or unauthorized alterations or repairs to the product, incorrect wiring, use for which it was not designed or by causes external to the product.

Maxon's sole obligation shall be to replace or repair the product covered by the warranty. Replacement is done at Maxon's discretion and may consist of a similar or higher featured product. Repair may include the replacement of parts with functionally equivalent new or reconditioned parts. All replaced parts and accessories are warranted for the balance of the original time period. All parts and accessories that are replaced become the property of Maxon America, Inc.

THE EXPRESS WARRANTIES CONTAINED HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES, EITHER EXPRESSED OR IMPLIED OR STATUTORY, INCLUDING, WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

FOR ANY PRODUCT THAT DOES NOT COMPLY WITH THE WARRANTY SPECIFIED, THE SOLE REMEDY WILL BE REPAIR OR REPLACEMENT. IN NO EVENT WILL MAXON BE LIABLE FOR ANY DAMAGES, INCLUDING ANY SPECIAL, INCIDENTAL, INDIRECT OR CONSEQUENTIAL DAMAGES, OR THE LOSS OF PROFIT, REVENUE OR DATA ARISING OUT OF THE USE OF OR THE INABILITY TO USE THE PRODUCT.

Radio and Frequency (Please record for future reference)

Model:

Date Purchased:

Serial Number:

Channel	Tx Frequency	Tx CTCSS/CDCSS	Rx Frequency	Rx CTCSS/CDCSS	Optional Signaling
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

FCC Caution:

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radio and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Your Maxon 2-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) for human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% transmitting and is authorized by the FCC for occupational use only. In terms of measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

Note: The approved batteries supplied with this radio are rated for a 5-5-90 duty factor (5% talk -5% listen -90% standby) even though this radio complies with the FCC occupational RF exposure limits and may operate at duty factors of up to 50% talk.

Your Maxon 2-way radio complies with the following RF energy exposure standards and guidelines:

United States Federal Communications Commission, Code of Federal Regulations; 47CFR §§1.1.307, 1.1310,

- 2.1091 and 2.1093

- American National Standards Institute(ANSI)/ Institute of Electrical and Electronic Engineers (IEEE) C95.1-1992

- Institute of Electrical and Electronic Engineers (IEEE) C95.1-1999 Edition