



Pofung MP1 Series Two-Way Radio Owner's Manual

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Pofung MP1 Series Two-Way Radio



ATTENTION! The radio is a multitask FRS transceiver. Combining the latest technology in radio communication along with a sturdy mechanical frame, the radio is the ideal and effective solution for the professionals who need to stay in touch with the working team (in construction sites, buildings, shows, trade fairs or hotels) or for leisure users that just want to keep up with friends and family. To help you ward off bodily injury or property loss that may arise from improper operation, please read all the information carefully before using our products. Before operating the radio, please read all safety and operating instructions. Save all instructions in a safe place for future reference.

FCC Part 15.21 Warning Statement

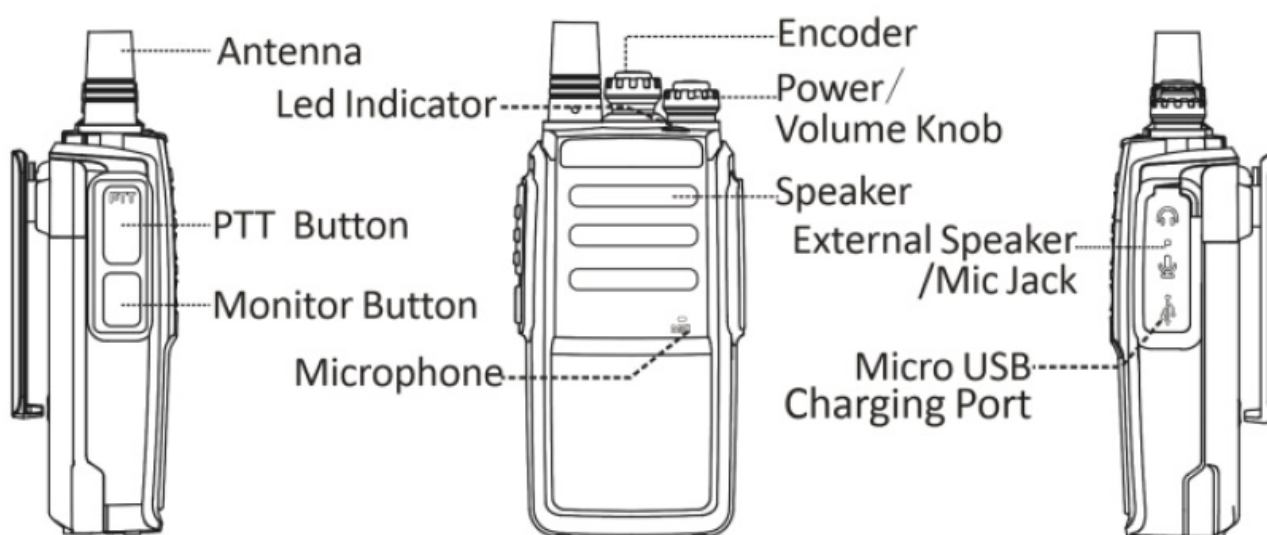
NOTE: THE GRANTEE IS NOT RESPONSIBLE FOR ANY CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE. SUCH MODIFICATIONS COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Content of the packaging

Package Content	2PACK	3PACK	6PACK
Radio	2	3	6
Li-ion Battery	2	3	6
Belt Clip	2	3	6
Lanyard	2	3	6
Power Adapter	1	0	1
Desktop Charger	2	3	0
Owner's Manual	1	1	1

Note: The number of the above materials may be depending on the number of packages.

Radio Overview



Main features

- 15 Channels
- Channel spacing: 12.5 KHz
- Vocal tuning
- Channel Monitor
- 2pin Kenwood accessory jack
- 50 CTCSS tones and 210 DCS codes
- Frequency Range: 462.5500-462.7250MHz
- Output power: 30.9dBm
- Channel Scan
- Battery save
- Squelch
- TOT (Time out timer)
- Li-Ion 1500mAh battery pack
- Product certification information: FCC Rules Parts 95

*Range may vary depending on environmental and/or topographical conditions.

Installation of Accessories

Install the Li-ion Battery

To install the batteries:

1. Turn off the radio. Orient the back of the radio and the battery latch toward you.
2. Fit the battery to the back of the radio (cover the product nameplate). Squeeze and push the battery pack toward the top until the battery is locked by the latch.

Remove the battery

1. Turn off the radio. Orient the back of the radio and the battery latch toward you. .
2. Press down on the battery latch to the end, and pull out the battery towards you until it is completely detached from the radio.

Installing the Belt

To install the Belt Clip, slide the clip down into the slot on the back of the radio until the Belt Clip-latch clicks. To remove the Belt Clip, press the Lock-tab down, and then gently pull the belt clip up toward the top of the radio.

External Speaker/Microphone Jack

Each radio can be used with an optional external speaker/microphone or headset, freeing your hands for other tasks. To use an optional speaker/microphone or headset:

1. Open the rubber cap on the side of the radio.
2. Insert the plug(s) into the SPK/MIC jacks.
3. Place the ear bud into your ear, and adjust the Microphone into your desired position.

Using a Headset

You can use a headset (#480_5R) for more private communications. To use a headset, lift the rubber cover from over the headset jack, and then plug in the headset.

Important: Your radio is not submersible or waterproof when using a headset jack. When you remove the headset, be sure to fully press the jack cover into place to restore its waterproof capability.

Charging the Battery

Charging the Radio

Charging the Radio The radios can be charged directly by using the supplied charging cradle. A single radio can charge using the Micro USB port to connect to a USB power source. For fastest charging, turn off the radio before charging.

Warning!

To avoid the risk of personal injury or property damage from fire or electrical shock, only use the accessories specifically designated for this product. Using the Micro USB Port

1. Connect the included AC adapter with Micro USB connector cable to the radio's Micro USB port. Connect the other end to an outlet that provides USB charging power (NOT to a USB hub).
2. Charge the batteries for 6 hours until the battery indicator either stops flashing.

Using the Charging Cradle

1. Connect the included AC adapter with USB connector cable to the charging cradle's Micro USB port. Connect the other end to a standard AC wall outlet.
2. Set the charging cradle on the desk or tabletop, and place the radio in the charging cradle with the keypad facing forward.
3. Charge the batteries for 6 hours.

Note:

- Use only the supplied batteries, charger, and AC adapter or approved accessories.
- Charge time may vary depending on the battery life remaining.
- The batteries must be installed for the unit to operate, even if the unit is also connected to external power.
- If battery power is low, you cannot operate the radio even using external power. Allow the batteries to charge before using.

*If you try to transmit while power is low, the radio will automatically turn off.

Basic Operations

Power on/off and volume adjustment

Rotate the Power/Volume knob clockwise to turn the radio on. Rotate the control clockwise /counter-clockwise to adjust the volume level as you prefer. To turn the radio off, rotate the control counter-clockwise till hearing a mechanical "click".

Transmission

To communicate, all radios in your group must be set to the same channel. Briefly press the Monitor to enable the Monitor feature in order to make sure that the frequency is not busy, and then press the PTT key. Release the PTT key to receive. Only one user at a time can talk during radio communications. Therefore, it is important not to transmit when you are receiving communication and use the transmission mode sparingly to allow other users to talk. Transmission consumes a significant amount of energy and should therefore be used sparingly to prolong the battery life. If you are unable to contact a station that you have no problems in receiving, the station may be using CTCSS tones or DCS codes.

Monitor

The Monitor feature is for excluding (opening) the Squelch, in order to listen to signals that are too weak to keep the Squelch permanently opened. Hold down the Monitor to enable such function.

Scan

This function can be activated only by means of the optional programming software. To enable the Scan function, all 16 channels must be programmed. If you turn on the radio on channel 16, the scanning will automatically start. Whenever any signal is detected, the scanning will stop on a busy channel. If the PTT is pressed, you will transmit on the latest busy channel. Channel 16 is the priority channel; therefore if you don't pick up any signal when you press PTT, the radio will transmit on channel 16.

Squelch

The Squelch function suppresses noises on free channels and allows receiving even weak signals. F100 has 10 different Squelch levels that can be set by programming software: 0 means that the Squelch is turned off; from level 1 to level 9 you will have different levels of noise reduction. The higher is the level, the louder will be the Squelch. By default, the Squelch level of F100 is set on level 4. Make sure you do not set an

CTCSS/DCS tones

CTCSS and DCS tones are similar to access codes and enable the radio to communicate only with the users that are tuned on the same channel and have set the same code. For each channel, you can set up to 50 CTCSS tones and 210 DCS codes. The CTCSS/DCS tones are a sort of “access codes” and enable the radio to communicate only with the other users set on the same frequency and on the same CTCSS/DCS tone. Undesired signals coming from other stations set on the same frequency but with different CTCSS/DCS tones won't be received.

Prompt voice switch settings

The encoder is selected to the 10th channel. Press and hold the PTT and Monitor to turn on the radio, and turn the prompt voice on or off. Turn on the prompt voice function, and there will be voice prompts when the encoder is turned on or operated. If you turn off the prompt voice function, there is only a “beep” prompt when you turn on or operate the encoder.

Emergency alert function

If necessary, you can pre-program the Monitor into the Alarm function via CPS programming software. Turn on the radio, short press the Monitor to turn on the alarm function. Press the Monitor again to release the emergency alarm status CPS programming path: Edit> Function Setting> Side Key> Alarm

VOX

The VOX feature enables hands free conversations without using PTT: just speak in the direction of the microphone and the communication will be automatically activated. The VOX sensitivity can be adjusted in 5 different levels (1...5) through the programming software: Level 2 is set by default and has the lowest VOX sensitivity, 5 is the lowest one. With the programming software you can enable/disable the VOX feature and select the sensitivity levels.

Quick operation radio

Without CPS programming software, you can perform the following quick operations through the combination of PTT + Monitor:

- On channels 1-5, press and hold the PTT + Monitor to turn on the radio and turn the VOX function on or off. The VOX sensitivity is level 1-5, the level 1 sensitivity is the highest, and the level 5 sensitivity is the lowest. Accompanied by a voice prompt VOX ON or VOX OFF.
- On the 10th channel, press and hold the PTT + Monitor to turn on the radio and turn on or off the prompt voice function.
- On the 15th channel, press and hold the PTT + Monitor to turn on the radio and switch the prompt language between Chinese and English.

Appendix A. –FRS Frequency Chart (MHz)

CH.No	CH.Freq. MHz	Max Power Output (dBm)	CH.No	CH.Freq. MHz	Max Power Output (dBm)
1	462.5625	30.9	9	462.5750	30.9
2	462.5875	30.9	10	462.6000	30.9
3	462.6125	30.9	11	462.6250	30.9
4	462.6375	30.9	12	462.6500	30.9
5	462.6625	30.9	13	462.6750	30.9
6	462.6875	30.9	14	462.7000	30.9
7	462.7125	30.9	15	462.7250	30.9
8	462.5500	30.9	16		

Appendix B. – Trouble shooting guide

Phenomena	Analysis	Solution
You cannot turn on the radio.	The battery may be installed improperly.	Remove and reattach the battery.
	The battery power may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts or replace the battery.
During receiving, the voice is weak or intermittent.	The battery voltage maybe low.	Recharge or replace the battery.
	The volume level may be low.	Increase the volume.
	The antenna maybe loose or maybe installed incorrectly.	Turnoff the radio, and then remove and reattach the antenna.
	The speaker maybe blocked.	Clean the surface of the speaker.
You cannot communicate with other group members.	The frequency or signaling type maybe inconsistent with that of other members.	Verify that your TX/RX frequency and signaling type are correct.
	You may be too far away from other members.	Move towards other members.
You hear unknown voices or	You may be interrupted by radios using the same frequency.	Change the frequency, or adjust the squelch level.

noise.	The radio in analog mode maybe set with no signaling.	Request your dealer to set signaling for the current channel to avoid interference
You are unable to hear anyone because of too much noise and hiss.	You may be too far away from other members.	Move towards other members.
	You may be in an unfavorable position. For example, your communication may be blocked by high buildings or blocked in an underground area.	Move to an open and flat area, restart the radio, and try again.
	It may be the result of external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.
The radio keeps transmitting.	VOX may be turned on or the headset is not installed in place	Turn off the VOX function. Check that the headphones are in place.
You cannot use the keys.	The keypad may not work temporarily.	Restart the radio.

Appendix C. – Technical Specifications

- Frequency Range 462.5500-462.7250MHz
- Working temperature -10°C to +40°C
- Operation Voltage DC 3.7V
- RF Output Power 30.9dBm
- FM Modulation 11K0F3E@12.5KHz
- Spurious Emission -13dBm
- Transmission current ≤1000mA
- Receive current ≤380mA

NOTE: All specifications may be modified without prior notice or liability.

IMPORTANT NOTICE

WARNINGS: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by PO FUNG COMPANY may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules. Your radio is set up to transmit a regulated signal on an assigned frequency. Any adjustment to your radio must be made by qualified technicians.

FCC Rules.

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

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

FCC & RSS WARNINGS:

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. SAR tests are conducted using standard operating positions accepted by the FCC/ISED with the device transmitting at its highest certified power level in all tested frequency bands, although the SAR is determined at the highest certified power level, the actual SAR level of the device while operating can be well below the maximum value. Before a new model is available for sale to the public, it must be tested and certified to the FCC/ISED that it does not exceed the exposure limit established by the FCC/ISED. Tests for each product are performed in positions and locations as required by the FCC/ISED. For body-worn operation, this device has been tested and meets the FCC/ISED RF exposure guidelines when used with an accessory designated for this product or when used with an accessory that contains no metal.

To maintain compliance with the FCC/ISED's RF exposure guidelines, hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. This equipment complies with FCC/ISED radiation exposure limits set forth for an uncontrolled environment. In order to comply with the FCC/ISED RF exposure requirements, the antenna installation must comply with the following:

- Users must be fully aware of the hazards of the exposure and able to exercise control over their RF exposure to qualify for the higher exposure limits.
- Your wireless hand-held portable transceiver contains a low-power transmitter. This product sends out radio frequency (RF) signals when the Push-to-Talk (PTT) button is pressed.
- The device is authorized to operate at a duty factor not to exceed 50%.

This device complies with ISED licence-exempt RSS standard (s). Operation is subject to the following two conditions:

1. this device may not cause interference, and
2. this device must accept any interference, including interference that may cause undesired operation of the device.

Electromagnetic Interference/Compatibility

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.
Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference received, including interference that may cause undesired operation of the device.

Precautions for Portable Terminals

Operating Prohibitions

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

1. Do not operate the product in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials. In such location, only an approved Ex-protection model is allowed for use, but any attempt to assemble or disassemble it is strictly prohibited.
2. Do not operate the product near or in any blasting area.
3. Do not operate the product near any medical or electronic equipment that is vulnerable to RF signals.
4. Do not hold the product while driving.
5. Do not operate the product in any area where use of wireless communication equipment is completely prohibited.

Important Tips

To help you make better use of the product, be sure to observe the following instructions:

1. Do not use any unauthorized or damaged accessory.
2. Keep the product at least 2.5 centimeters away from your body during transmission.
3. Do not keep the product receiving at high volume for a long time.
4. For vehicles with an air bag, do not place the product in the area over the air bag or in the air bag deployment area.
5. Keep the product and its accessories out of reach of children and pets.
6. Please operate the product within the specified temperature range.
7. Continuous transmission for a long time may lead to heat accumulation within the product. In this case, please keep it at a proper location for cooling.
8. Handle the product with care.
9. Do not disassemble, modify or repair the product and its accessories without authorization.

Hazardous Environments

Do not operate the radio in hazardous environments. An explosion or fire may result. Do not operate the radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations

and may cause an explosion. Turn your radio OFF to prevent accidental transmission when in a blasting area or in areas posted: "Turn off two-way radio." Construction crews often use remote-control RF devices to set off explosives.

Precautions for Batteries

Charging Prohibitions

To protect you against any property loss, bodily injury or even death, be sure to observe the following safety instructions:

1. Do not charge or replace your battery in a location containing fuels, chemicals, explosive atmospheres and other flammable or explosive materials.
2. Do not charge your battery that is wet. Please dry it with a soft and clean cloth prior to charge.
3. Do not charge your battery suffering deformation, leakage and overheat.
4. Do not charge your battery with an unauthorized charger.
5. Do not charge your battery in a location where strong radiation is present.
6. Overcharge shall always be prohibited for it may shorten the life of your battery.

Maintenance Instructions

To help your battery work normally or prolong its life, be sure to observe the following instructions:

1. Accumulated dust on charging connector may affect normal charging. Please use a clean and dry cloth to wipe it on a regular basis.
2. It is recommended to charge the battery under 5°C~40°C. Violation of the said limit may cause battery life reduction or even battery leakage.
3. To charge a battery attached to the product, turn it off to ensure a full charge.
4. Do not remove the battery or unplug the power cord during charging to ensure a smooth charging process.
5. Do not dispose of the battery in fire.
6. Do not expose the battery to direct sunlight for a long time nor place it close to other heating sources.
7. Do not squeeze and penetrate the battery, nor remove its housing.

Transportation Instructions

1. Damaged batteries must not be transported.
2. To avoid short circuits, separate the battery from metal parts or from each other if two or more batteries are transported in one packaging.
3. The radio must be switched off and secured against switch-on if the battery is attached.

The content of the shipment must be declared in the shipping documents and by a Battery Shipping Label on the packaging. Contact your hauler for the local regulations and further information.

Precautions for Disposal

Once the service life of our products (including but not limited to radios and batteries) has ended they shall not be disposed as household garbage. Their recycling and disposal shall satisfy your local regulations.

Disclaimer

The Company endeavors to achieve the accuracy and completeness of this manual, but no warranty of accuracy

or reliability is given. All the specifications and designs are subject to change without notice due to continuous technological development. No part of this manual may be copied, modified, translated, or distributed in any manner without the prior written consent of the Company. We do not guarantee, for any particular purpose, the accuracy, validity, timeliness, legitimacy or completeness of the third-party products and contents involved in this manual.



Address: Room 1508, 15/F, Office Tower II, Grand Plaza, 625 Nathan Road, Kowloon, Hong Kong
<http://www.pofung.cn>

Documents / Resources

<div>MP1 SERIES TWO-WAY RADIO OWNER'S MANUAL</div>	<div>Pofung MP1 Series Two-Way Radio [pdf] Owner's Manual</div> <div>MP1, 2AJGM-MP1, 2AJGMMP1, MP1 Series Two-Way Radio, MP1 Series, Two-Way Radio</div>
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