

MULTICOM USER'S MANUAL

MULTIPLEX COMMUNICATION RADIO
WITH HANDS FREE,
Model; MC11 2.4G

1. General Information

1.1 Introduction

The "MULTICOM" is the most optimized multiplex communication device with hands free talks and it combines quality and versatility into a compact and easy to use with state of the art technology.

1.2 Main Feature

- * Team mode version :
Up to 5 people conference talks in full duplex mode
- * Group mode version :
Up to 5 people conference talks and other up to 94 people listening at the same time
The listener is also able to become speaker by press Talk button and one of speakers who joined earliest among 5 speakers drops to listener in that case
- * Long distance coverage over 800yd / 900m typically in 900Mhz version or 400m typically in 2.4Ghz version
- * Crystal clear sound quality with super surround noise cancellation
- * Longer than enough battery life, over 10 hours
- * Outdoor purpose water resistant and hands free communication
- * Convenient micro USB charging solution compatible with most of mobile phone charging adapters to charge

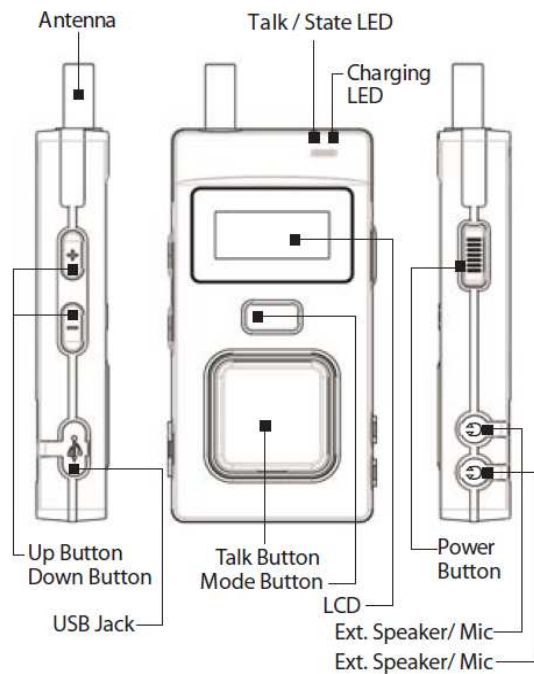
1.3 Accessories

- * Ear set Boom Microphone
- * Neck Strap
- * USB Charging Cable
- * Arm Band Strap

1.4 Optional Accessories

- * CB20; Charging Container for 20 sets (535 x 282 x 132mm)
- * CB40; Charging Container for 40 sets (625 x 412 x 132mm)
- * CC01; Carrying Case with Belt Clip
- * CA01; USB Charging Adapter
- * HM01; Headset Boom Microphone
- * CM01; Clip on Microphone

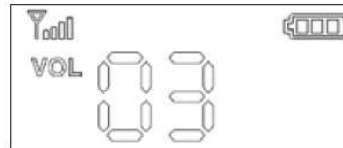
2. Controls and Indicators



3. How to use

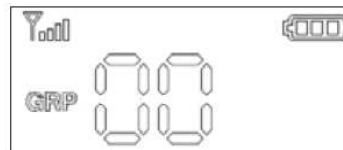
3.1 Power On/Off

Press and hold the "Power" button longer than 3 seconds to turn the device power on. The LCD display is on and shows the default volume level "VOL 03". After that press and hold the "Power" switch again for 3 seconds to turn the device power off.



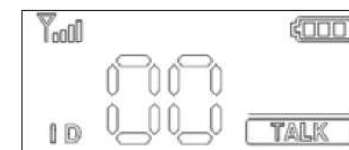
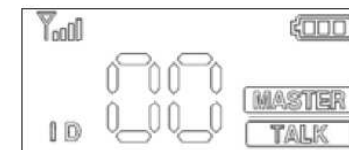
3.2 Group selection

Press and hold the "Mode" button longer than 3 seconds after turn the device power on. The "GRP" symbol on the LCD is blinking. Select the Group number 0~39 as you desire by press "▲" or "▼" button and then release all the buttons longer than 3 seconds to fix it. Every radio needs to have a same Group number to communicate each other in a group.



3.3 ID selection

In a group, every radio needs to have each different ID per radio from "00" to "99". The ID "00" becomes a master radio in a group and every group needs to have a master radio with ID "00" per group without alternative. The "MASTER" and "TALK" are displaying on the LCD as soon as the ID "00" is set. Press and hold the "Mode" button longer than 3 seconds after turn the device power on. The "GRP" symbol on the LCD is blinking. And press the "Mode" button one more time instantly. The "ID" symbol on the LCD is blinking. Select each different ID number per radio from "00" to "99" in a group by press "▲" or "▼" button and then release all the buttons longer than 3 seconds to fix it.



3.4 Transmitting and Receiving

In a master radio with ID "00", its transmitting and receiving are activating automatically as soon as its ID is set with "00".

For other radios, press "Talk" button for 2 seconds and leave it as long as you want to do transmitting and receiving at the same time.

The "TALK" is displaying on the LCD.

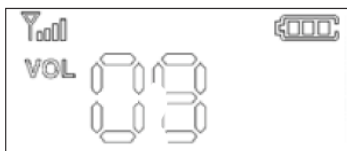
In case you want to do receiving only without transmitting, no need to press "Talk" button after turn the device power on. If you want to change the mode from the transmitting and receiving to the receiving only, just press again "Talk" button for 2 seconds.

The "TALK" is disappeared on the LCD and the radio works as receiving only

3.5 Volume Up/ Down

It gives you to adjust the hearing volume level with 6 steps as per you prefer.

Press "▲" button to control volume up and "▼" button for volume down after turn the device power on. It is available to adjust the volume level 0~6 from low to high.



Note; Its default is "VOL 3".

3.6 Audio Output High / Low

It serves you to choose higher audio output or lower beside of Volume Up / Down.

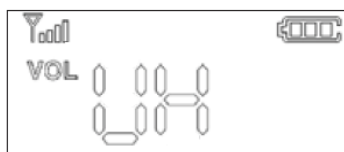
The higher audio output is effective when you listen to the device in a heavy noise place.

Press and hold the "Mode" button longer than 3 seconds after turn the device power on.

The "GRP" is blinking on the LCD. Press the "Mode" button 6 times instantly.

Select either "UH" for higher audio output or "UL" for lower audio output by press

"▲" or "▼" button and then release all the buttons longer than 3 seconds to fix it.



Note;

1) Its default setting is "UL".

2) There might be kinds of white noise when you set the audio output at "UH". Hence, it is recommendable to set the audio output at "UL" except using the device in a heavy noise place.

3.7 Side Tone On/ Off

The side tone feature gives you to hear what you are talking as a self monitoring system.

Press and hold the "Mode" button longer than 3 seconds after turn the device power on.

The "GRP" symbol on the LCD is blinking.

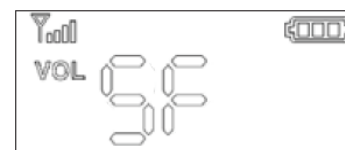
Press the "Mode" button twice instantly.

The "SO" symbol on the LCD is blinking.

Press "▼" button to change the Side Tone Off.

The "SF" is displaying on the LCD.

Release all the buttons longer than 3 seconds to fix the Side Tone Off.



Note; Its default setting is "SO".

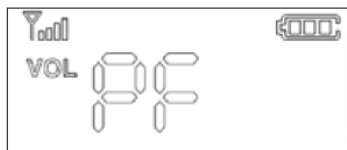
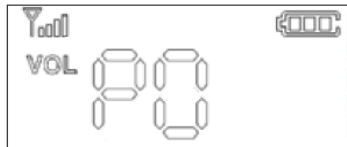
3.8 Receiving only mode selection

It is available to set the device as receiving only.

Press and hold the "Mode" button longer than 3 seconds after turn the device power on.

The "GRP" is blinking on the LCD. Press the "Mode" button 4 times instantly.

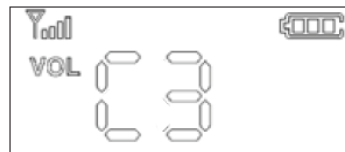
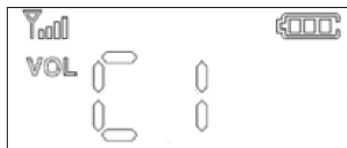
Select either "PO" for the device Receiving and Transmitting capable as a normal activity or "PF" for the device receiving only as transmitting mute by press "▲" or "▼" button and then release all the buttons longer than 3 seconds to fix it.



Note; Its default setting is "PO".

3.9 Microphone sensitivity level control

It is available to select the microphone sensitivity up to 5 steps according to the environment you have. Press and hold the "Mode" button longer than 3 seconds after turn the device power on. The "GRP" is blinking on the LCD. Press the "Mode" button 5 times instantly. Select the microphone sensitivity level 1 ~ 5 as per you desire by press "▲" or "▼" button and then release all the buttons longer than 3 seconds to fix it.



Note;

- 1) The "C 1" the lowest microphone sensitivity and "C 5" is the highest.
- 2) Its default setting is "C 3"

3.10 Occupied status indicator

In the group mode, "PT1" is blinking when the 5 speakers are already existing in the channel you want to talk.

If you press "Talk" button for 2 seconds while "PT1" blinking, the earliest speaker among 5 speakers will drop to Listener and you will be Speaker.

4. Battery

The rechargeable Li-Ion battery 3.7V, 1,100mA is installed in the device. Plug the USB charging cable into the USB port and recharge the battery.

The Charging LED in the right side top corner of device is blinking during the charging and turned it off when the battery is fully charged.

5. Specification

Radio Frequency Type ISM2407MHz~2476MHz

Type Wireless Microphone/Receiver Unit

Radio Interface ISM 2.4GHz: FSK Modulation
with Frequency Hopping

Voice Codec 16bit/16KHz

Tx Max Output Power 10mW

Rx Sensitivity -95dBm

Voice Latency <35ms

Num. of Frequency Channel 139ch

Hopping Channel 16ch

Channel Spacing 500KHz

Data Rate 2Mbps

Freq, Bandwidth 500KHz

Battery Li-ion Battery @ 3.7V/TBD 1100mA

Antenna Internal Helical Antenna

Talk Time 10hr Typ.

Power Consumption Avg. 100mA at 10mW

Frequency response 50Hz ~ 7KHz

Maximum operation users 5person
(include Master device)

Dimension/Weight 98(H)X49(W)X17(D)mm/88g

Audio In TBD

Audio Out TBD

LED Display Status, Talk, Charging LED

Low Battery Alert Audible signal(Beep)

Water Proof TBD

FCC Information to User

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 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.

Caution

Modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC Compliance Information : 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

IMPORTANT NOTE:

FCC RF Radiation Exposure Statement:

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

The antennas used for this transmitter must be installed to provide a separation distance of at least 5mm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

CAUTION

To reduce the risk of electric shock, do not remove the top cover (or the rear section).
No user serviceable parts inside, refer servicing to qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure-voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to the important operating and maintenance instructions in the accompanying literature. Please read the manual.

- 1) Read these instructions.
- 2) Keep these instructions.
- 3) Heed all warnings.
- 4) Follow all instructions.
- 5) Do not use this equipment near water.
- 6) Do not use near any heat sources such as radiators, heat resistors, stove, or other equipment that produce heat.

CAUTION

**RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS**

European CE notice to users and product statements

This product is CE marked according to the provisions of the R&TTE Directive(1999/5/EC). Hereby, Maytel Co., Ltd declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

For further information, please contact [http:// www.maytel.com](http://www.maytel.com)

CE1177

Maytel Co., Ltd

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CONTACT INFORMATION

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To locate in-country MAYTEL CO., LTD., distributors of the Multicom 2.4G (SWATCOM Multicom) please refer to the MAYTEL CO., LTD. Website [http:// www.maytel.com](http://www.maytel.com)

These distributor(s) represent local contacts for this product.

CORPORATE HEADQUARTERS:

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Fax: +82-31-440-9331

Web: [http:// www.maytel.com](http://www.maytel.com)

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is Subject to the following two condition: (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.

EUROPEAN UNION “DECLARATION OF CONFORMITY”

DECLARATION OF CONFORMITY

MAYTEL CO., LTD.

#417 Doosan Venture Digm 126-1, Pyeongchon-dong, Dongan-gu, Anyang-si, Gyeonggi-do, Republic of Korea

declare under our sole responsibility that the product(s)

Multicom 2.4G (SWATCOM Multicom) – MC-11 2.4G

to which this declaration relate(s) is in conformance with the following standards:

EN 301 489-1 V1.9.2:2011

EN 301 489-17 V2.2.1:2012

EN 60950-1:2006/A2:2013

EN 300 328 V1.9.1:2015

following the provisions of the 1999/5/EC Directives.