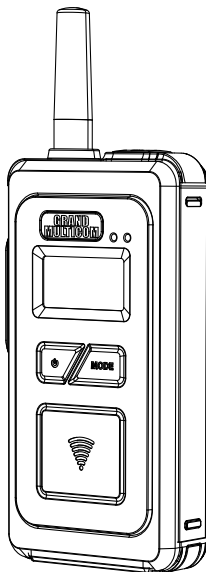# USER'S MANUAL FOR GRAND MULTICOM-PRO Model; GMP2.4

ver.40401MST

ALL SOLUTIONS YOU REQUIRED IN WIRELESS INTERCOM

Maytel Co., Ltd.

TABLE OF CONTENTES

1. General Information

1.1 Introduction

The "GRAND MULTICOM-PRO" is the most advanced multiplex communication equipment, providing simultaneous communication between up to 10 users with hands-free solution.
The "GRAND MULTICOM-PRO" supports unlimited number of Any-one participant and Listen only participants.
The "GRAND MULTICOM-PRO" can expand the talk distance and minimize the influence of the obstacles without a help of any external device ; Supported in 4 Modes.
The "GRAND MULTICOM-PRO" combines reliable performance, quality and versatility into a compact and easy to use through state-of-the-art technology.

1.2 Main Feature

- Support 4 professional operating modes and directly select the optimized mode according to the environment in the field.

- Realize 9 fixed users + Any one out of unlimited participants direct talking together with hands-free simultaneously while rest members are listening.

- Crystal clear sound quality, loud enough audio output and super dynamic noise cancellation more than 95dB.

- Long enough talk distance fulfilled with 4 professional operating modes that can be directly selected in the field.

- Individual PIN encryption can be set per Group and Group & ID shows on the same clear OLED display.

- Fully met IP67 waterproof, including strong and rugged mechanism.

- Convenient drop-in charging and USB charging system.

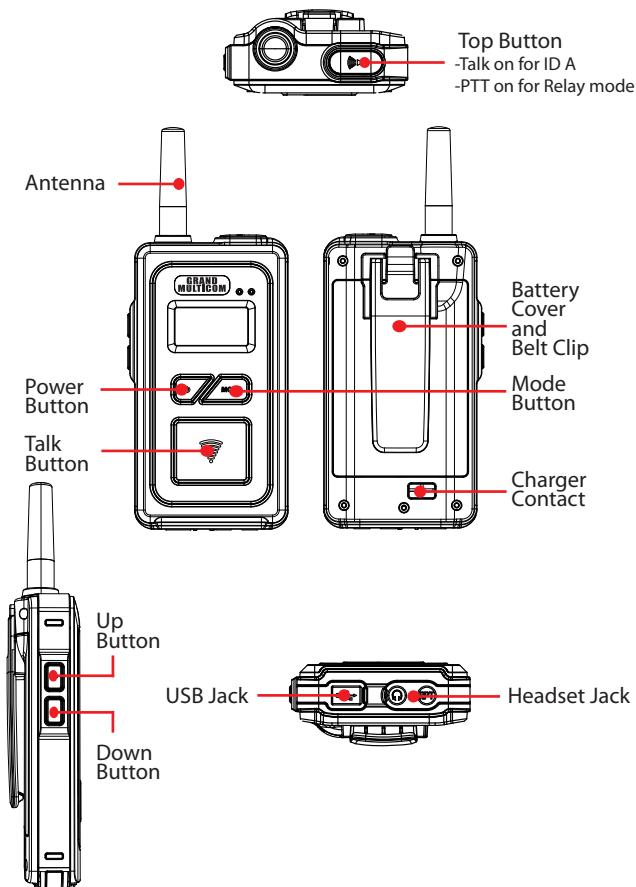- Efficient method of replaceable battery pack and detachable antenna.

1.3 Package Components

- GMP2.4   ; Grand Multicom-PRO 2.4G   1PC
- HSB-02G ; Headset Boom Microphone   1PC
- UC-01   ; USB Charging Cable   1PC
- User's Manual   1PC

1.4 Optional Accessories

- RA-11   ; Interface adaptor kit for Relay mode operation
- TC-11   ; Two-way radio connection cable – Motorola standard
- CC-01GM   ; Leather carrying case
- CS-05GB   ; Drop-in charging station for 5 GRAND MULTICOM-PRO &
                5 detachable batteries
- HSB-02G   ; Mono pad headset Boom Microphone
- HDB-05G   ; Heavy duty headset with Mute On/Off Boom Microphone
- TEM-01G   ; Air tube earphone and hi-sensitive Lapel Microphone
- TEM-01PG ; Air tube earphone and hi-sensitive Lapel Microphone
                with PTT
- SM-100LG ; Left ear type sports earset Boom Microphone including
                extra outer side of ear holder
- SM-100LPG ; Left ear type sports earset Boom Microphone including
                extra outer side of ear holder with big PTT knob
- EHR-03G   ; Neck band earset Boom Microphone
- EBB-01G   ; Earbud Boom Microphone
- TM-01G   ; Throat Microphone together with Air tube earphone
- CB-01GM   ; Carrying bag for Grand Multicom-PRO 1 unit
- CB-05GM   ; Carrying suit case for Grand Multicom-PRO 5 units
- CB-10GM   ; Carrying suit case for Grand Multicom-PRO 10 units
- MA-01   ; External magnetic antenna with cable 2m for GMP2.4
- DA-01   ; High gain dipole antenna for GMP2.4
- GM2.4AD   ; Dipole antenna for longer talk range in 2.4Ghz
- UC-01   ; USB charging cable
- PC-01   ; Program Cable for Firmware upgrade

2. Controls and Indicators

Top Button
-Talk on for ID A
-PTT on for Relay mode

Antenna

Battery
Cover
and
Belt Clip

Power
Button

Mode
Button

Talk
Button

Charger
Contact

Up
Button

USB Jack

Headset Jack

Down
Button

Power Button

Press and hold the Power button longer than 2 seconds to turn the device power On/Off

Mode Button

Select Group number, ID number, Side Tone level, Talk On/Off, Microphone sensitivity level, Audio output level, and used for 4 Modes selection

Up Button

Increase Volume level, Select Group number, and ID number etc. in each mode

Down Button

Decrease Volume level, Select Group number, and ID number etc. in each mode

Talk Button

Mute On/Off

Top Button

Talk mode on for ID A and PTT for Relay mode
Used for 4 Modes selection

Headset Jack

3.5mm headset connection

Antenna

Detachable antenna

USB Jack

USB port for firmware upgrade and battery recharge

Drop in charge Contact

Drop in charge contact for rechargeable battery

3. How to Use

3.1 Power On/Off

Press and hold the "Power" button longer than 2 sec to turn the device power On/Off.

3.2 Volume Up/ Down

Press "▲" button to control volume up and "▼" button for volume down after turn the device power on.
The display shows initially set level 03.
It is available to adjust the volume level 0~8.

```
 Y..ll              (IIII)
GROUP      I D     TALK
00         M
VOLUME _____  9+1
```
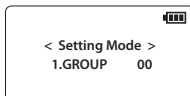
3.3 Group Selection

Press and hold the "Mode" button till "Setting Mode" is displayed.
Select the Group number "00"~"39" for GMP2.4 you desire by pressing the "▲" or "▼" button.
Long press the "Mode" button to set the Group number you selected.
All devices must have the same Group number to communicate with each other within the group.

```
                   (IIII)
< Setting Mode >
1.GROUP    00
```

3.4 ID Selection

In a group, every devices needs to have each different ID per device from "M", "A", "S", "L", "01" to "09".
("M", "A", "L", "01" to "08" in Repeater mode)
The ID "M" becomes a master device in a group and every group needs to have the ID "M" device without alternative.
Other IDs except "A" and "L" serve a full hands-free talking at the same time.
The ID "A" is operated by anyone pressing Top button and talk as open slot.
If you press Top button while someone else among users who have ID#A is talking, an alert will occur and your Top button will not be activated.
You need to wait for the person currently talking to release Top button and then press Top button.
ID#L is Listen only and can't speak.
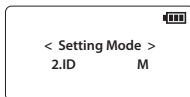The ID "A" and "L" can be selected indefinitely.

Press and hold the "Mode" button till "Setting Mode" is displayed.
Short press the "Mode" button then "ID" is displayed in "Setting Mode".
Select each different ID number per device from "M", "A", "S", "L", "01" to "09" in a group by pressing the "▲" or "▼" button.
("M", "A", "L", "01" to "08" in Repeater mode)
Long press the "Mode" button to set the ID number you selected.

```
┌─────────────────────┐
│                ▪▪▪▪ │
│   < Setting Mode >  │
│    2.ID      M      │
│                     │
└─────────────────────┘
```
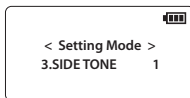
3.5 Side Tone On/Off

Press and hold the "Mode" button till "Setting Mode" is displayed.
Short press the "Mode" button two times then "SIDE TONE" is displayed in "Setting Mode".
Select the Side Tone "OFF" or "1"~"5" by pressing the "▲" or "▼" button.
Long press the "Mode" button to set the Side Tone you selected.

```
                              ▀▙▚▜
    <  Setting Mode  >
    3.SIDE TONE        1
```
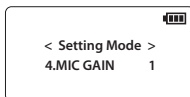
3.6 Microphone Sensitivity Level Selection

Press and hold the "Mode" button till "Setting Mode" is displayed.
Short press the "Mode" button three times then "MIC GAIN" is
displayed in "Setting Mode".
Select the Microphone Sensitivity Level "1"~"8" by press the "▲" or "▼"
button.
Long press the "Mode" button to set the Microphone Sensitivity Level
you selected.

```
                              ▀▙▚▜
    <  Setting Mode  >
    4.MIC GAIN         1
```
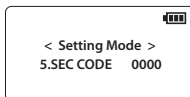
3.7 Security Code Selection

Press and hold the "Mode" button till "Setting Mode" is displayed.
Short press the "Mode" button four times then "SEC CODE" is displayed
in "Setting Mode".
The security code consists of four digits and it is available for you to
select "1"~"9", "A", "B", "C", "D", "E", "F" for each digit by press the "▲" or "▼"
button.
Short press "Mode" button to change the next digit after setting one.
Long press the "Mode" button to set the security code you selected.

```
                              ▀▙▚▜
    <  Setting Mode  >
    5.SEC CODE     0000
```
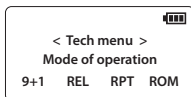
3.8 4 Mode Selection

To go to <Tech menu>, long press MODE button for 2sec while pressing TOP button with the device power ON.
Currently selected mode blinks. Selected mode blinks when move to the preferred mode by "▲" or "▼" button.
Long press Mode button and the device power turns off then the mode changes to the selected mode.
Turn on the power and the currently selected mode appears on the right bottom of the LCD.

```
                    ┌──────────────────────┐ ▪▥▥▥
                    │   < Tech menu  >     │
                    │   Mode of operation  │
                    │ 9+1    REL   RPT  ROM │
                    └──────────────────────┘
```

3.9 ID Explanation of each 4 Modes

3.9.1 9+1 Mode ID Explanation

ID#M   ; Master - Full hands-free talking at the same time.
ID#01~ID#08 ; Slave - Full hands-free talking at the same time.
ID#A   ; Slave – Can receive all the conversation in the Group
                     but have to press Top button to speak.
                   – No limit in its number.
ID#L   ; Listen only and can't speak. - No limit in its number.
Instead of 9 users + any one of users, if you want fixed 10 people to make simultaneous talks, you can set ID# A to ID# 09.
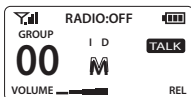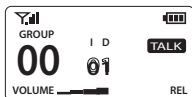

Master

Slave

Any one

Listen only

3.9.2 Relay Mode ID Explanation

ID#M   ; Master - Full hands-free talking at the same time.

ID#01~ID#08 ; Slave - Full hands-free talking at the same time.

ID#A   ; Slave – Can receive all the conversation in the Group
             but have to press Top button to speak.
             – No limit in its number and cannot
             communicate with other Groups.

ID#L   ; Listen only and can't speak. - No limit in its number.

Instead of 9 users + any one of users, if you want fixed 10 people to make simultaneous talks, you can set ID# A to ID# 09.
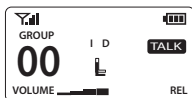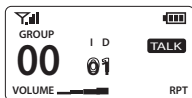

Master

Slave

Any one

Listen only

3.9.3 Repeater Mode ID Explanation

ID#M   ; Master – Full hands-free talking at the same time.

ID#01~ID#07 ; Slave - Full hands-free talking at the same time.

ID#A   ; Slave – Can receive all the conversation in the Group
             but have to press Top button to speak.
             - No limit in its number.

ID#L   ; Listen only and can't speak. - No limit in its number.

Instead of 8 users + any one of users, if you want fixed 9 people to make simultaneous talks, you can set ID# A to ID# 08.
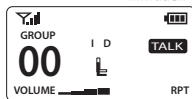

Master

Slave

Any one   Listen only

3.9.4 Roaming Mode ID Explanation

ID#M   ; Main master - Full hands-free talking at the same time.
ID#S   ; Sub master - Full hands-free talking at the same time.
ID#01~ID#08 ; Slave - Full hands-free talking at the same time.
ID#A   ; Slave – Can receive all the conversation in the Group
                      but have to press Top button to speak.
                      – No limit in its number.
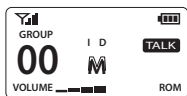ID#L   ; Listen only and can't speak. - No limit in its number.
Instead of 9 users + any one of users, if you want fixed 10 people to
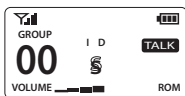make simultaneous talks, you can set ID# A to ID# 09.
Roaming method selection; Press and hold the "Mode" button until
"Setting Mode" is displayed. Short press the "Mode" button eight
times then "6.ROAMING" is displayed in "Setting Mode".
Choose the preferred Roaming method by the "▲" or "▼" button and
long press the "Mode" button.
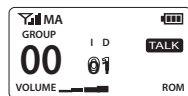- AUTO   ; Automatically connect to the closer device between
                         Main master and Sub master.
                         - Connected master appears as "MA" or "SA" on the LCD.
- MANUAL   ; Can manually choose which master to connect between
                         Main master and Sub master by pressing Mode button.
                         - Connected master appears as "MM" or "SM" on the LCD
- MASTER   ; Always connected to Main master. -"ML" appears on the LCD
- SUBMASTER ; Always connected to Sub master. -"SL" appears on the LCD
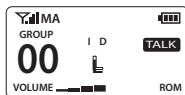

Main Master   Sub Master   Slave

Any one   Listen only

4. Specification 2.4GHz

Dimension

122.7 x 23.5 / 31.0(With Belt Clip) x 67mm

Weight

180g

Frequency Range

2,407MHz ~ 2,476MHz

Rx Sensitivity

-95dBm

External Controls

Side panel ; Push button for Volume Up/Down
Front panel; Push buttons for Power On/Off, Talk On/Off, Mode select
Top panel   ; Push button for Talk On/Off for ID A and PTT for ID M,01~09

External Interfaces

4 Pole 3.5 mm Headphone jack X 2 ea,

Micro USB jack for Battery Charging & Firmware update

Channel Spacing

40 channels

Num. of Frequency Channel

500 KHz

Battery Type

Li-ion Battery @3.7V/ 2,000mA

Antenna

Detachable type Dipole Antenna

Maximum Operation Users

10 Users including Master device

Indicators

OLED display for Group Number, ID, Volume Level, Battery Status, Operational Mode, Talk On/Off, Current Mode

Battery Operational Time

12 hours typical

Battery Charging Time

3 to 5 hours

5. Declaration of Conformity

Maytel hereby declares that Maytel conforms to the major characteristic specifications and other relevant specifications given in the Directive 1999/5/EEC and is made after following specifications;

EN 60950:2002
EN 301 489-1 / -5
EN 300 086-2 V1.1.1 (2001-03)

This product is compliant with the RoHS Directive 2002/95/EC.

Maytel Co., Ltd.
#416 Doosan Venture Digm, Heung An Dae-Ro, Dongan-Gu, Anyang-Si, Gyeonggi-do, South Korea (Zip; 14059)
www.maytel.kr

6. Warranty

Maytel will give 12 months warranty against failure made by the manufacturer from the date of purchase.
The warranty will not cover damage made by the user, the user opening the equipment, moist, dirt, heat or cold. The warranty will not cover lightning/overvoltage. Please, contact your dealer if a problem with the equipment arises.

7. Waste Disposal

Electrical and electronic products can contain materials, parts and units that can be dangerous for the environment and human health. Products marked with the WEEE mark (shown below), shall not be disposed together with your normal household waste. Please inform yourself about the local rules and disposal collection system for electrical and electronic products. The correct disposal of your old product will help to prevent negative consequences for the environment and human health.
(WEEE = Waste of Electrical & Electronic Equipment)