



User Manual



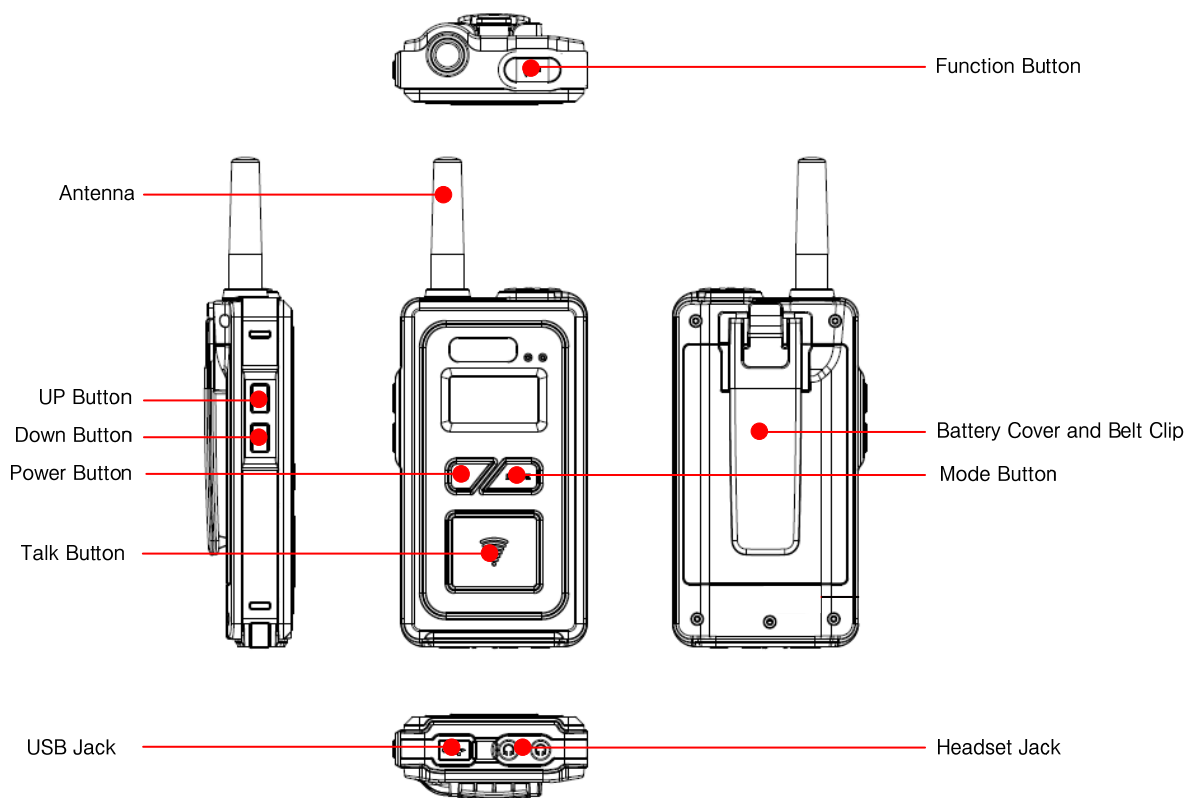
GM-2.4G User Manual

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1. Features



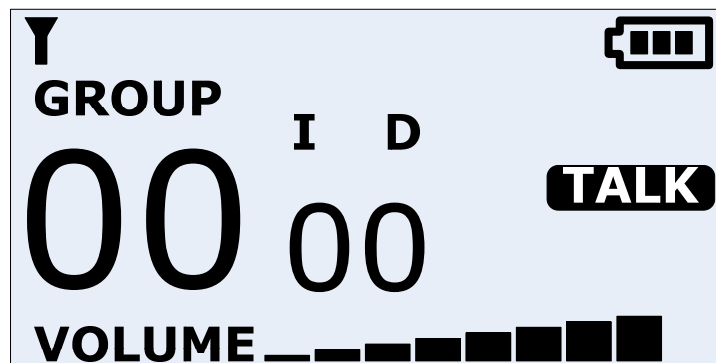
Item	Description
Power Button	Power ON : Press and hold for 2 seconds or longer. Power OFF : Press and hold for 2 seconds or longer.
Mode Button	Group ID, Side Tone, Tx/Rx Mode, MIC level, Output level=Setting/Change
Up Button	Increase the setting value in each mode such as Volume, Channel, ID, etc.
Down Button	Lower the setting value in each mode such as Volume, Channel, ID, etc.
Talk Button	Group Version : Talk On/Off Team Version : Mic On/Off
Function Button	Multi function Key
Headset Jack	3.5mm Headset Jack
Antenna	Antenna Jack
USB Jack	USB Jack, Formware upgrade

2. Function Description

2-1. Volume Control

GM-2.4G has volume control function that serves user to change volume level wanted.

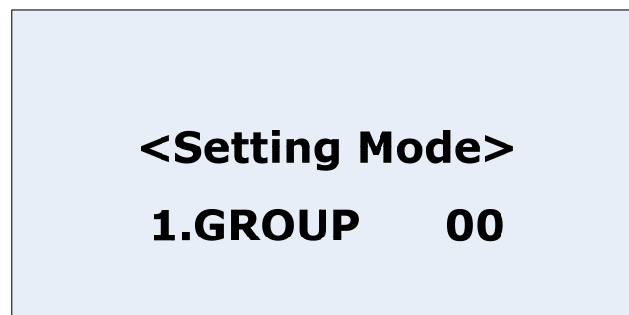
- Volume level is displayed after power is turned on.
- Volume level can be set with Up/Down button in the range of 0~8.
- The default level is 3.



2-2. Group Setting

GM-2.4G has group setting function that serves user to change group to communicate.

- Turn on the **GM-2.4G**.
- When press and hold the Mode button, the LCD window changed to Setting Mode.
- Setting the desired group by pressing the Up/Down button on the left side of device.



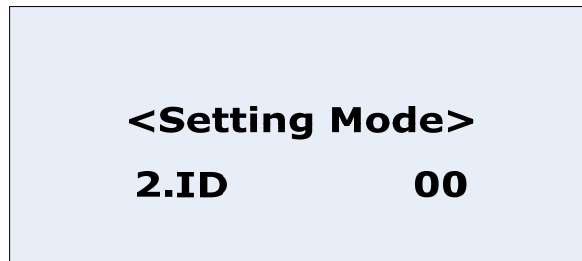
- The Group can be set from 0~39.
- Press and hold the Mode button to complete the setting.

2-3. ID Setting

GM-2.4G has an ID setting function that allows users to change their ID.

ID should be set not to overlap each other in the same group, and Master terminal of "00" must exist.

- Turn on the GM-2.4G.
- Press and hold Mode button to enter the setting mode.
- Press the Mode button briefly to enter the ID setting change window.
- Set up the desired ID by pressing Up/Down button. The ID can be set up to 00~99.
 - When ID is "00", it is set as Master.
 - When ID is "01~99", it is set as Slave.

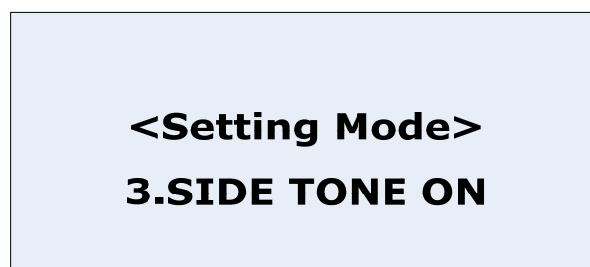


- To complete the setting, press and hold the Mode button.

2-4. Side Tone Control

GM-2.4G can turn side tone On/Off.

- Turn on the GM-2.4G.
- Press and hold Mode button to enter the setting mode.
- Press the Mode button twice in the setting mode to move to the side tone setting change window.
- Side tone can be turned On/Off by pressing the Up/Down button.



- To complete the setting, press and hold the Mode button.

2-5. MIC Level Control

GM-2.4G can be used to adjust the MIC input level.

- Turn on the GM-2.4G.
- Press and hold Mode button to enter the setting mode.
- Press the Mode button 3 times in the setting mode to move to MIC gain setting change window.
- Press the Up/Down button to change the MIC gain setting.
- MIC gain can be adjusted from 1 to 5.

<Setting Mode>
4.MIC GAIN 1

- To complete the setting, press and hold the Mode button.

2-6. Security Code Setting

GM-2.4G can adjust the security code value.

- Turn on the GM-2.4G.
- Press and hold Mode button to enter the setting mode.
- In the setting mode, press Mode button 4 times to move to the security code setting change window.
- Security code can be changed by pressing Up/Down button.
- Security code has 4 digits and each digit can be set from 0 to 9, A, B, C, D, E, F.
- Security code can be set one by one. To move to another digit, simply press Mode button.

<Setting Mode>
5.SEC CODE 0000

- To complete the setting, press and hold the Mode button.

3. SPECIFICATIONS

ITEM	SPECIFICATION
Radio Frequency Type	ISM 2407MHz ~ 2476MHz
Radio Interface	ISM 2.4GHz: GFSK Modulation with Frequency Hopping
Voice Codec	16bit/8KHz
Tx Max Output Power	100mW
Rx Sensitivity	-95dBm
Voice Latency	< 100ms
Num. of Frequency Channel	139ch
Channel Spacing	500 KHz
Power Supply	Li-ion Battery @3.7V/ 2000mA
Antenna	External Antenna (3.1dBi/4.0dBi)
Distance Range(LOS)	500M @ Class 1
Frequency response	50 Hz ~ 4 kHz
Maximum operation users	8person (include Master device)

Compliance to FCC US/CAN

- This device complies with Part 15 of the FCC Rules and Industry Canada license-exempt RSS standard(s).
- 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 of the device.
- 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 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.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

WARNING !

FCC Radiation Exposure Statement :

This portable equipment with its antenna complies with FCC's RF radiation exposure limit set forth for an uncontrolled environment. To maintain compliance follow the instruction below;

- This transmitter must not be colocated or operating in conjunction with any other antenna or transmitter.
- Avoid direct contact to the antenna, or keep it to a minimum while using this equipment.

This device complies with RSS-247 of the Industry Canada 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.

Ce dispositif est conforme a la norme RSS-247 d'Industrie Canada applicable aux appareils radio exempts de licence. Son fonctionnement est sujet aux deux conditions suivantes: (1) le dispositif ne doit pas produire de brouillage prejudiciable, et (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Radiation Exposure Statement

The product comply with the Canada portable RF exposure limit set forth for an uncontrolled environment and are safe for intended operation as described in this manual. The further RF exposure reduction can be achieved if the product can be kept as far as possible from the user body or set the device to lower output power if such function is available.

Declaration d'exposition aux radiations :

Le produit est conforme aux limites d'exposition pour les appareils portables RF pour les Etats-Unis et le Canada établies pour un environnement non control. Le produit est sur pour un fonctionnement tel que decrit dans ce manuel. La reduction aux expositions RF peut etre augmentee si l'appareil peut etre conserve aussi loin que possible du corps de l'utilisateur ou que le dispositif est regle sur la puissance de sortie la plus faible si une telle fonction est disponible.

GM-2.4G must be used after mounting it at the waist necessarily using a belt clip and That is prohibited from using accessories other than clips permanently attached to the battery cover.

Professional installer have a responsibility to comply with FCC part 15 rules on antenna limits and amplification. Unauthorized modifications to the device could void the End-users authority to operate it.

The dipole antenna is applied when the GM-2.4G is used as a portable device.

The dipole antenna should not be used in other places than the waist.

So the GM-2.4G was evaluated for body worn SAR condition and it is not a hand-held device.

This product has been certified with the following antennas, and may only be used with the same or less antenna gain.

Antenna	Model	Max. Gain
Dipole Antenna	HW-2450H-MSMA	3.1dBi
Dipole Antenna	LSDP-2402D(B)	4.0dBi

This equipment complies with the essential requirements of EC Directive 2014/35/EU, 2014/30/EC and 2014/53/EU, as applicable. Declarations are available from your local representative.

This product has required the extraction and use of natural resources for its production. It may contain hazardous substances that could impact health and the environment, if not properly disposed.



In order to avoid the dissemination of those substances in our environment and to diminish the pressure on the natural resources, we encourage you to use the appropriate take-back systems for product disposal. Those systems will reuse or recycle most of the materials of the product you are disposing in a sound way.



The crossed out wheeled bin symbol informs you that the product should not be disposed of along with municipal waste and invites you to use the appropriate separate take-back systems for product disposal.

If you need more information on the collection, reuse, and recycling systems, please contact your local or regional waste administration. You may also contact your supplier for more information on the environmental performance of this product.

Replaceable battery

If an equipment is provided with a replaceable battery, and if replacement by an incorrect type could result in an explosion (for example, with some lithium batteries), the following:

- if the battery is placed in an OPERATOR ACCESS AREA, there shall be a marking close to the battery or a statement in both the operating and the servicing instructions;
- if the battery is placed elsewhere in the equipment, there shall be a marking close to the battery or a statement in the servicing instructions.

This marking or statement shall include the following or similar text:

CAUTION

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

The product itself doesn't have charging function, Use a battery charged with a dedicated cradle.

****The label information can be found by removing the battery cover and battery**