

# **GIGAMEDIA**

SMART BUILDING SOLUTIONS

PUBLIC ADDRESS

GGM PAMICUHFG

# **USER MANUAL**

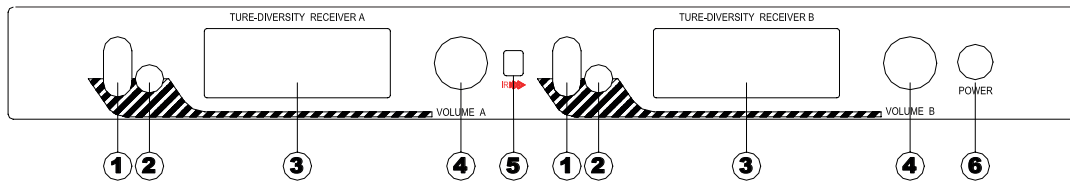
# **UHF TRUE-DIVERSITY WIRELESS MICROPHONES**

Please follow the instructions in this manual to obtain the optimum results from this unit.  
We also recommend that you keep this manual handy for future reference..

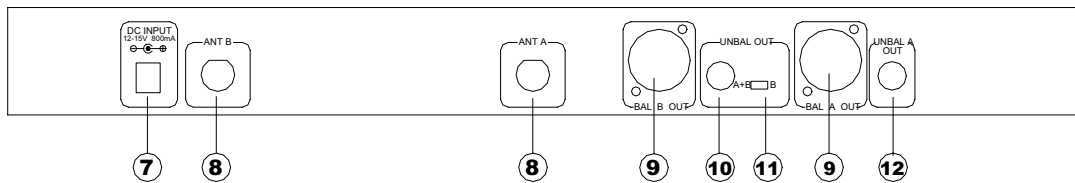
The below unit is a true diversity dual-channel receiver with factory preset user-selectable 200-frequency.

## 1. True-diversity dual receiver controls, features & indicators

### View of front panels



### View of back panels



- ① **Menu button:** press "▲", "▼" button to access or select menu screens selected, press the SET button again to save.
- ② **SET button:** one-touch SET button to sync quickly deploys them to transmitters by IR.  
**SCAN:** press the SET button on receiver to access the scan function for the best available channel.
- ③ **Display:** shows menu options, receiver and transmitter settings.
- ④ **Volume control.**
- ⑤ **IR align window:** align with the transmitter IR window during an IR sync to automatically program transmitters.
- ⑥ **Power switch:** press and hold the power button to turn on receiver.
- ⑦ **Power supply jack:** connection point for DC of 12 V / 1 A power supply.

- ⑧ **Antenna connectors** : BNC connector for receiver antennas.
- ⑨ **XLR audio output**: balanced.
- ⑩ **1/4 mix audio unbalanced output**: channel A and B CH mixed when (11) switch slip to end of A+B, unbalanced output jack for B channel only when (11) switch to of end B.
- ⑪ Switch of A and B CH unbalanced mixed or separate audio output.
- ⑫ Unbalanced output jack for channel A only.

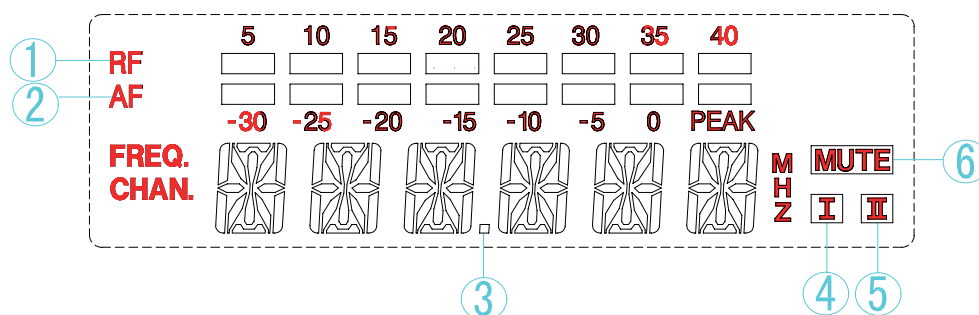
**Size (W x H x D): 420 x 44 x 180 mm**

Be to be mounted in a standard audio equipment rack with factory offers mounting brackets.

### 1.1. Operation receiver

Make sure that the transmitter is powered off before turning the receiver power on. Press and hold the receiver power button, the LCD will glow and turn on. Then press "▲", "▼" button to choose function, or then press "SET" button to access the scan function for the best available channel.

### 1.2. The LCD display

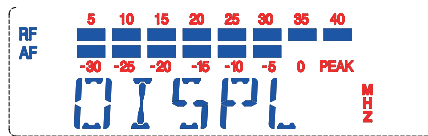


- ① **RF bar indicators**: 8-bar indicates the strength of radio frequency signal.
- ② **AF bar indicators**: 8-bar indicates the strength of audio signal.
- ③ When the LCD shows FREQU, it is the current working frequency.

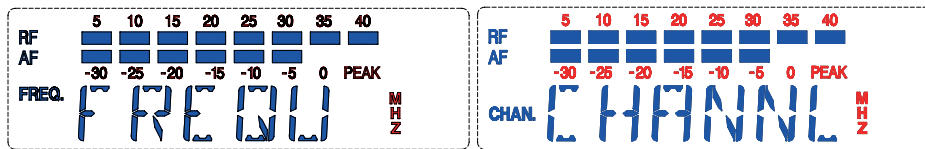
- ④ **When the LCD shows CHANNL:** it is the current working channel.
- ⑤ **6-segment:** shows frequency, channel and menu.
- ⑥ **Mute sign:** shows that no RF signal is received.

### 1.2.1. Main menu

Press "SET" button, the LCD below will present on display first:

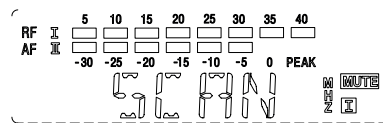


After 2-3 s, one of two pictures below will present: it depends on last status before turning the system off. The CPU of receiver remembers last status LCD displays what stored last time when the CPU was shut off.



### 1.2.2. Scan frequency

The receiver scans the RF spectrum for the best available frequency press SET button to star the scan.

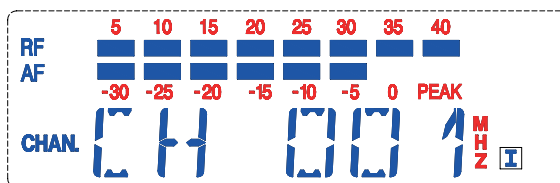


When the scan is complete, the selected channel will appear on the display.

### 1.2.3. Manual frequency

When press "▲", "▼" button. It shows 0-99 or 100-199 digits when choose CHANNL; it shows real carrier frequency when you choose FREQU.

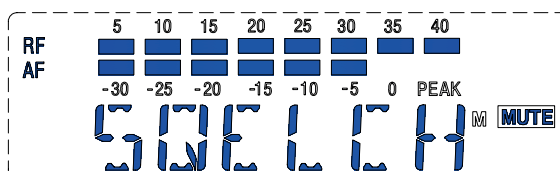
After SET, press "SET" button to save, if not save, the receiver will return to last status. The LCD will blink if no confirmation is made: this is to invite a confirmation.



(The LCD will display one of the above depends on last status).

### 1.2.4. How to set MUTE of receiver

Press "SET" button to access SQELCH menu.



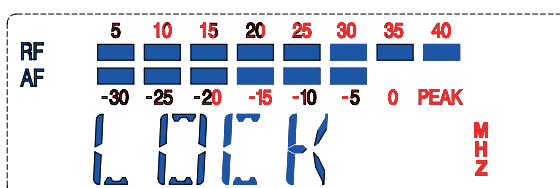
Press "SET" button and hold seconds, LCD will display squelch like 15 dB indicates sensitivity status. Press "▲", "▼" button to change current status if need. This point is a factory pre-set at: 0-40 dB. 5, 10, 15, 20, 25, 30, 35, 40 dB positions are to provide optimal operation in most applications. Position at 40 dB will decrease operating range.

### 1.2.5. System lock operation

Control lock options is available for receiver to protect against accidental or unauthorized operation.

Locks can be directly set from the menu as follows.

Press "SET" button for 2-3 s, LCD will appear on the display as follows:

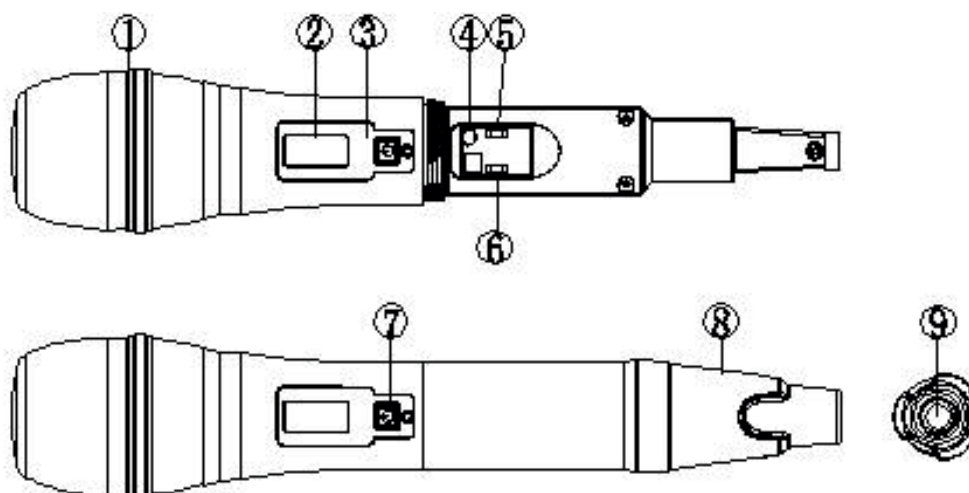


After 2-3 s, LCD will change to one of the following diagrams.



It depends on the last status when LCD was turned off to see what it will show now. If the LCD shows LOC ON, protect against accidental or unauthorized changes. If it is in LOCK ON mode, press "SET" button and hold then press "▲", "▼" button to set to LOC OFF.

## 2. Handheld transmitter controls, features & indicators

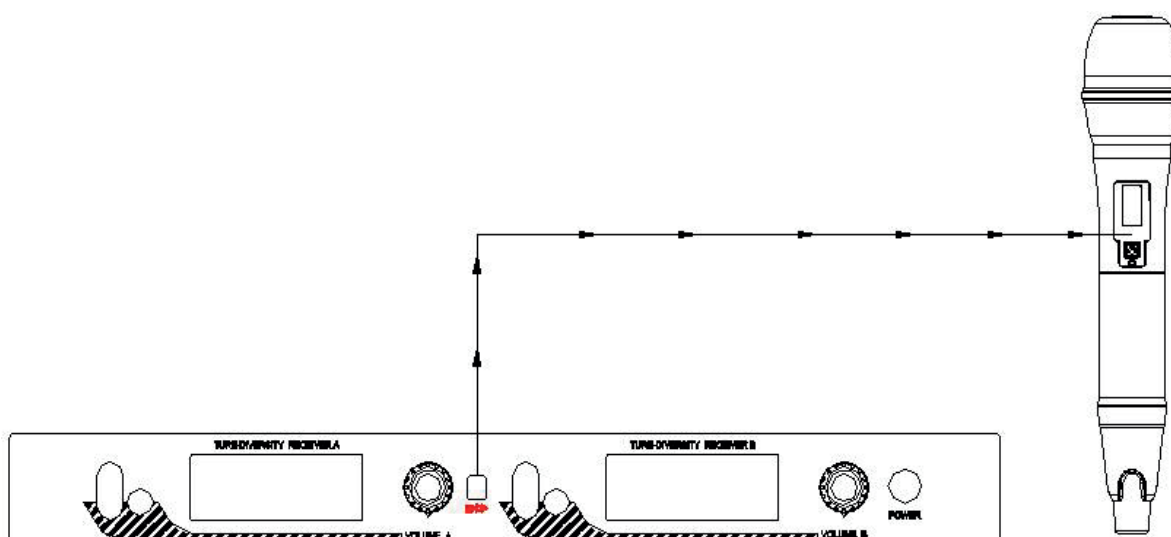
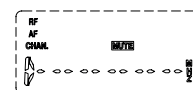


- ① **Metal grille:** hexagonal-shaped to protect the microphone cartridge from being damaged, reducing breath sounds and wind noise.
- ② **LCD display:** indicate channel and remaining battery life.
- ③ **IR align window:** align with the receiver IR window during an IR SYNC to automatically program transmitters.
- ④ **Microphone gain control:** provide audio level adjustment to accommodate different sound source.
- ⑤ **RF power:** setting LO or HI.
- ⑥ **Lock ON/OFF switch.**

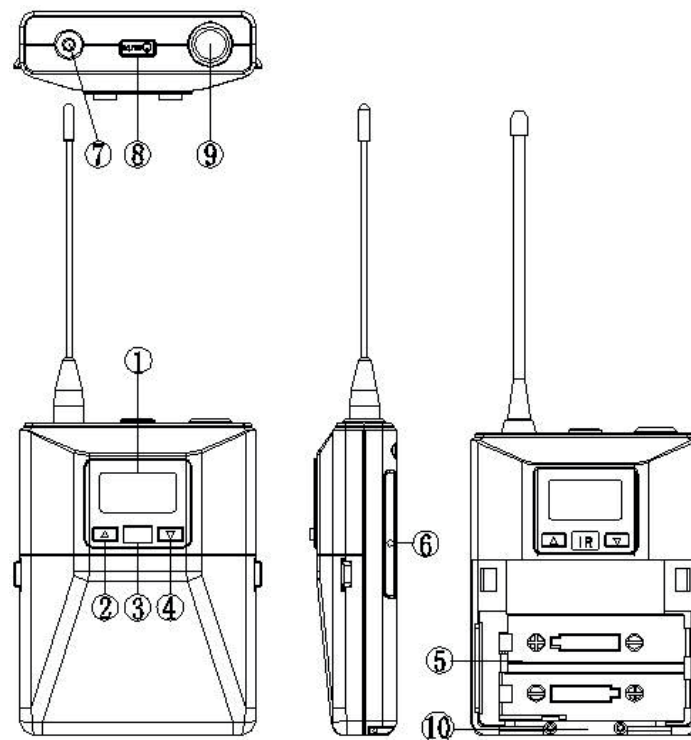
- ⑦ **Power switch button.**
- ⑧ **Handheld integrated antenna.**
- ⑨ **Charger port:** using factory offers bay chargers and works Ni-MH AA rechargeable batteries only.

## 2.1. IR SYNC for automatic handheld transmitter set up

- ① Turn on the handheld transmitter.
- ② Press the SET SYNC button on receiver. The IR LCD indicating the sync mode is active.
- ③ Align the IR sync windows of the handheld transmitter and receiver at a distance of less 20 cm. When the handheld transmitter and receiver are aligned. The display of handheld transmitter will appear channel no. as same as receiver when IR is complete.
- ④ If the IR SYNC fails, repeat IR SYNC procedure again.



### 3. Body-pack transmitter controls, features & indicators



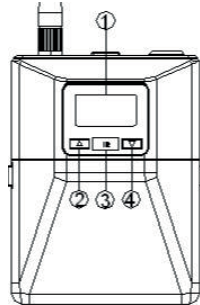
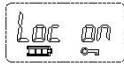
- ① **LCD display:** indicate channel and remaining battery life
- ② **Audio gain control "▲" and unlock button:** increase audio gain and control unlock.
- ③ **IR align window:** align with the receiver IR window during an IR SYNC to automatically program transmitters.
- ④ **Audio gain control "▼" and lock button:** decrease audio gain and control lock.
- ⑤ **Battery compartment:** recommend Ni-MH AA batteries ×2 or AA x2 rechargeable batteries.
- ⑥ **Belt.**
- ⑦ **Antenna.**
- ⑧ **Power button.**
- ⑨ **Audio balanced input jack.**
- ⑩ **Charger port:** using factory offers bay chargers and works Ni-MH AA rechargeable batteries only.



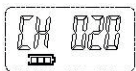
### 3.1. Lock audio gain level controller button

To control lock audio gain level options is available for body-pack transmitter to protect against accidental or unauthorized changes during the performance the audio gain controller button "▲", "▼" has been factory pre-set to provide satisfactory output grade 16-18 in most applications.

Display show as:

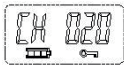


① If adjust audio gain level controller necessarily. Press ▲ (the button ②) for while the LCD will appear on the display as:



to control unlocked.

② After adjusting audio gain level to suitable as you want, press the ▼ (button ④) for while to control lock again as display show as:



## 4. Charger user' manual

### 4.1. Features

A new generation of charger designed exclusively for rechargeable transmitters of body-pack transmitter and handheld transmitter conveniently.

Each charger has two charging slots.

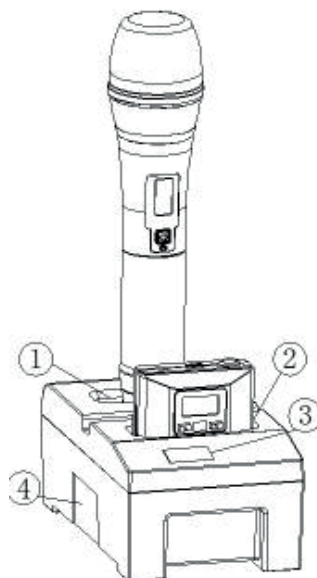
Each slot has a 2-in-1 charging design, enabling multiple charging options:

- Two handheld transmitters.
- Two body-pack transmitters.
- One handheld & one body-pack transmitter.
- Each charger share a LCD to provides precise dynamic charging battery status indicators for easy reading by the users.
- Intelligent charging circuitry provides efficient and safe charging.
- The structural design of slots to avoid charge polarity error.
- Two or more chargers can be easily connected for more charging options by charging cable.

Wrong battery charging alarm indicators: using bad quality battery or non-rechargeable battery, the LCD indicate alarm sign.

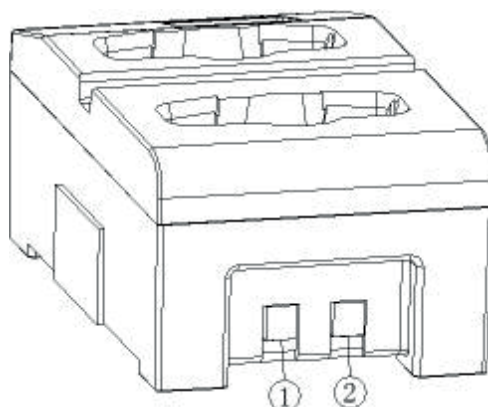
## 4.2. Controls and indicators:

- ① **Rear charging slot:** for handheld transmitter (for body-pack transmitter available).
- ② **Front charging slot:** for body-pack transmitter (for handheld transmitter available).
- ③ **LCD display:**

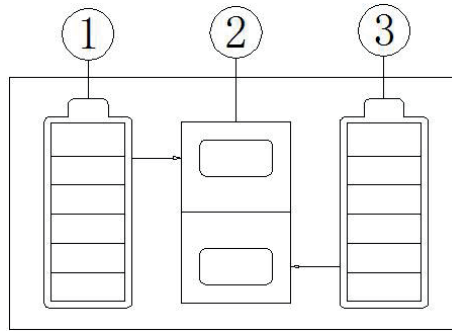


## 4.3. Power jack

- ① **Power IN:** from adaptor.
- ② **Power OUT:** to next charger by charging cable.



## 4.4. Display



- ① Display for rear charging slot.
- ② Indicates front and rear slots.
- ③ Display for front charging slot.

## 4.5. Specifications

**Charge current:** 0.5 A for two transmitters charging at the same time

**Charge time:** 50 % about 1 h; 90 % about 3 h

**External power supply:** 12 V / 1 A for one charger or more power supply be required when more chargers to be connected for charging at same time

**Dimensions (W x H x D):** 70 x 98 x 165 mm

**Weight:** 365 g

## 5. Specifications of system

- **Frequency range:** UHF range 470-510 MHz, 640-690 MHz, 863-865 MHz, 823-832 MHz
- **Modulation mode:** PLL
- **Bandwidth:** 25 MHz
- **Channel:** 200 channel interval 25 KHz
- **Stability:**  $\pm 0.0005\%$
- **Dynamic range:** 100 dB
- **Max deviation:**  $\pm 80$  KHz
- **Frequency response:** 20 Hz-20 KHz  $\pm 3$  dB
- **S/N:**  $> 85$  dB
- **Distortion:**  $< 0.5\%$
- **Operation temperature :**  $-10\text{ }^{\circ}\text{C} \sim 60\text{ }^{\circ}\text{C}$
- **T.H.D:**  $< 0.5\%$  (at 10 KHz deviation)
- **Power supply:** DC 12 V~500 MA
- **Audio output:** balanced & unbalanced
- **LCD displays:** frequency, RF input level, AF level, muting RF level and wireless channel information

## 6. Specifications of the receiver

- **True-diversity receiving mode:** PLL synthesized oscillation mode
- **Inter frequency:**  
first: 110 MHz /  
second: 10.7 MHz
- **Antenna type:** BNC type /  $50\ \Omega$
- **Sensitivity:** 12 dB $\mu$ V (80 dB S/N)
- **Sensitivity range:** 12-32 dB $\mu$ V
- **Spurious emission:**  $\geq 75$  dB
- **Max audio output:** +10 dBV

## 7. Specifications of the transmitter

- **RF output:**  
HI: 30 mW  
LO: 10 mW (meet CE / FCC regular)
- **Spurious emission:** -60 dB
- **Operation battery:** AA x 2
- **LCD displays:** channel and battery status

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### Directive DEEE



This product is covered by the WEEE II Directive (Directive 2012/19 / EU). It should not be thrown in the trash or dumped. Substances in the product may be hazardous to human health or the environment. Disposal may be done by returning the product to your dealer or leaving it a collection point provided for this purpose.

### Directive CE



This product bears the CE mark which certifies its conformity with the directives LVD 2014/35/EU ; EMC 2014/30/EU and RoHS 2011/65/EU.  
Compliance has been assessed in accordance with applicable standards in effect.