

# MIPRO

## ACT-Series Dual Channel Wireless Receiver

### Instruction Manual

1- rack Frame

ACT-function

Color LCD Panel

Dual 100 Preset Channels



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## ACT DUAL CHANNEL WIRELESS RECEIVER

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## HANDHELD WIRELESS MICROPHONE

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## 1. INTRODUCTION

Thanks for choosing the most advanced dual channel wireless receiver system from MIPRO.

Please read this manual thoroughly for correct operating and optimal performance.

ACT-707D is an international EIA standard, 1-rack, true diversity metal receiver. It features the world's first ACT-function, color LCD panel displaying multiple statuses. It allows rapid change of channels, offers non-interfering channel selection and eliminates spurious interference. Other unique features include a built-in switch-mode power supply, an antenna divider system and independent or mixed outputs. It's 1-rack, dual-channel design saves space and reduces installation time. Another great value system! The ideal choice for dual-channel receives in one rack space!

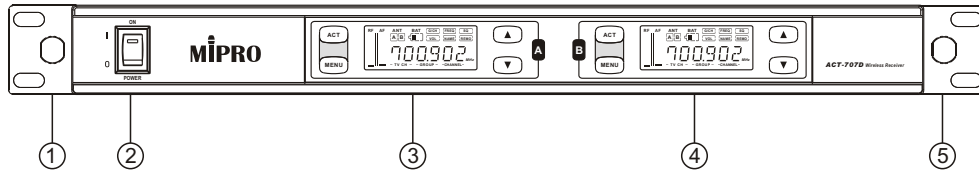
### Included Accessories :

- ① Antenna × 2                      ② Instruction Manual × 1
- ③ Power Cable × 1                ④ Rack-mount Brackets × 1-pair
- ⑤ Audio Output Cable × 1

# ACT DUAL CHANNEL WIRELESS RECEIVER

## 2. PARTS NAME AND FUNCTIONS

Front Panel :

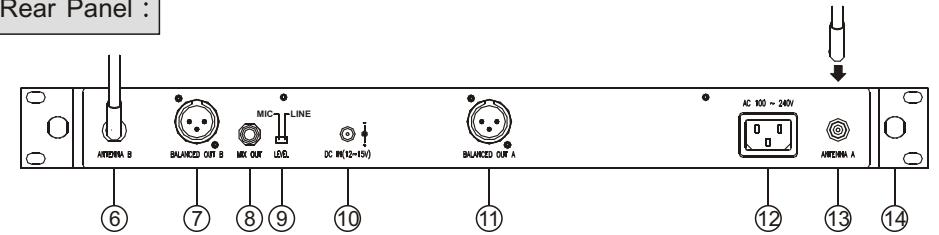


(Fig.1)

- (1) Front Antenna A Input Connector : Allows an optional rear-to-front Antenna kit for front antenna placement.
- (2) Power Switch & Indicator: When switch is turned on, red indicator illuminates to denote normal power status.
- (3) Receiver Panel A : Color LCD Panel A.
- (4) Receiver Panel B : Color LCD Panel B.
- (5) Front Antenna B Input Connector : Allows an optional rear-to-front Antenna kit for front antenna placement.

# ACT DUAL CHANNEL WIRELESS RECEIVER

Rear Panel :

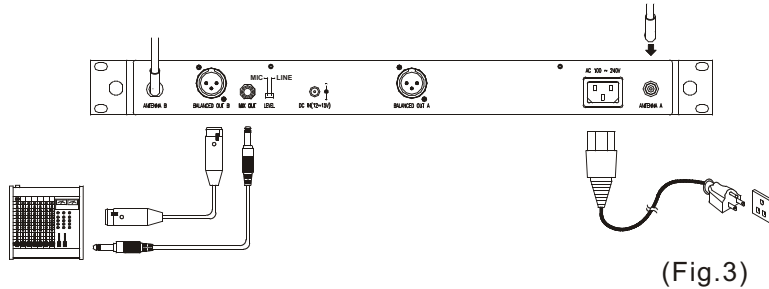


(Fig.2)

- (6) Rear Antenna B input Connector: B Antenna connector can be installed with antenna directly and provides power for antenna booster..
- (7)(11) Balanced Audio Output Jack: With Cannon / XLR type connector provides balanced audio output signal from this jack to the amplifier.
- (8) Unbalanced Audio Mixed Output Jack : With 1/4 λ Phone Jack provides the mixed unbalanced audio output signal from this jack to the amplifier.
- (9) Unbalanced Level Switch: "MIC" selection is for "Microphone-level" output. "LINE" selection is for "Line-out" level output.
- (10) DC 12V Input Jack: To connect 12 VDC from the AC/DC adapter.
- (12) AC Input Jack: To connect 85 ~ 265 Volts AC power.
- (13) Rear Antenna A input Connector: A Antenna connector can be installed with antenna directly and provides power for antenna booster.
- (14) Rackmount Bracket: To install the receiver into an EIA 19-inch standard rack case.

# ACT DUAL CHANNEL WIRELESS RECEIVER

## 3. INSTALLATION OF THE RECEIVER



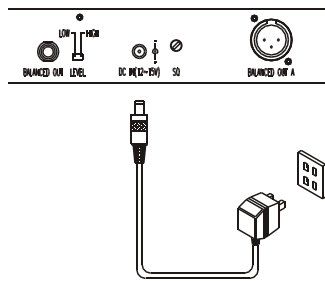
(Fig.3)

1. Install 2 separate antennas on the antenna sockets (6), (13) on the rear panel. Illustrated in figure 3.

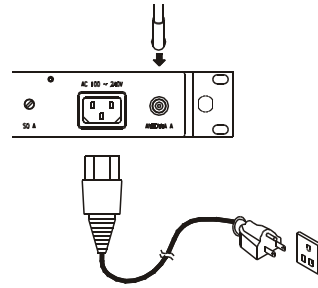
2. Power Output Connection:

(a) Connect the AC/DC adapter cable to DC 12V INPUT JACK (10), then plug the adapter unit into an appropriate AC outlet with caution to the correct voltage under both AC outlet and adapter marked, as shown in fig. 4.

(b) With the appropriate AC power cable connects from AC Input Jack (12) to an AC outlet under the marked voltage 85~265 V, as shown in Fig. 5.



(Fig.4)



(Fig.5)

3. Audio Output Connection:

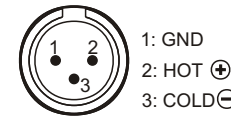
(a) Unbalanced Level Switch (9) Setting Position: When inputs the unbalanced output of a receiver into "AUX-IN" input jack of a mixer or amplifier or "Electric Guitar", switch the Level Switch (9) to the right "LINE" position. Low sensitivity may occur if switch to the wrong position. When input the unbalanced output of a receiver into the "MIC-IN" input jack of a mixer or amplifier; switch the Level Switch (9) to the left "MIC" position. Over load distortion may occur if switch to the wrong position. When using electric guitar, don't use "MIC" position as it may have generated insufficient level.

# ACT DUAL CHANNEL WIRELESS RECEIVER

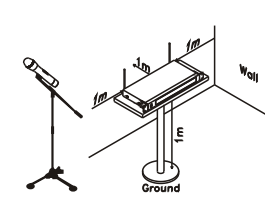
(b) Unbalanced Output: Using audio output cable attached with "PHONE PLUG" type, connect one end from the unbalanced output jack (8) of the receiver, and the other end to the "LINE-IN" input jack of the amplifier, as shown in Fig. 3.

(c) Balanced Output: Using audio output cables attached with "XLR" or "Canon" type, connect one end from the balanced output jacks (7) of the receiver, and the other end to the "MIC IN" input jack of the mixer or amplifier, as shown in Fig. 3. (The characteristic of the 3-pin connector is as shown in Fig. 6

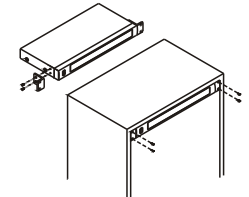
(d) Guitar Output: Using audio output cable attached with "PHONE PLUG" type, plug one end from the unbalanced output jack of a receiver, and the other end to the input jack of a guitar amplifier. Switch the Level Switch (9) to "LINE" position.



(Fig.6)



(Fig.7)



(Fig.8)

4. To ensure best reception possible, receiver must be installed at least one meter above ground. In addition, the distance between transmitter and receiver must be more than one meter and away from noise. (Shows in figure 7)

5. On the front panel of the receiver, 4 openings are pre-drilled for instant installation on the standard 19-inch rack case. (Shows in figure 8)

## ACT DUAL CHANNEL WIRELESS RECEIVER

### 4. RECEIVER OPERATING PROCEDURES

1. Turn volume controls of the mixer in use to a minimum setting before turn on the microphones or transmitters. After switches on the receiver, the power switch red indicator illuminates to denote normal power status.
2. Under normal circumstances, the RF indicator lights up when a microphone or transmitter is turned on near the receiver to indicate the receiver is ready for normal operation. Once sounds to the microphone and the AF indicators will glow according to the strength of sound level. If no LED glows or no sound outputs, the system is not function properly, thus it must be checked
3. The microphone output level needs to be adjusted at the amplifier or mixer. No need to adjust at the receiver itself.

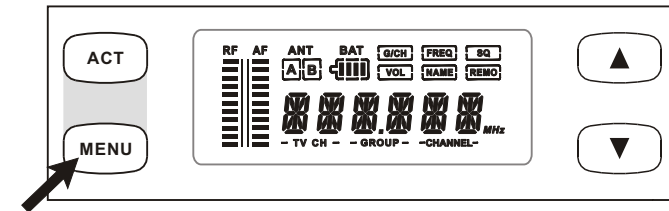
### 5. CAUTIONS

1. When using DC power supply, please be aware of the operating voltage. First of all, please make sure minimum of 12 volts can be obtained for function properly. However, the power supply should not exceed its maximum capacity of 15 volts. When the supply voltage is more than 15 volts, the system will suffer severe internal damage. It is preferred the power source is from a regulated power with the minimum current of 1 A.
2. Use only MIPRO standard antenna to ensure the sensitivity of the receiver.
3. Antenna socket has 8-volts DC power supply; please do not short the circuit of this part.

## ACT DUAL CHANNEL WIRELESS RECEIVER

### 6. Operation of Receiver with LCD Display Panel

#### 1. Full Display of LCD Screen and Locations of buttons



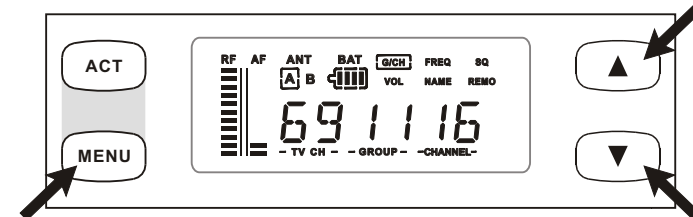
#### 2. Designations of buttons and Functions

**MENU:** Enable user to select from one function to the other

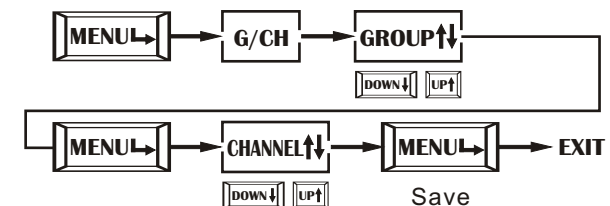
"MENU" button allows user to select among 6 options (in the sequence showing below) that each is surrounded in a square frame and shown on the upper half of LCD display. Detail functions and operations are as follows.

**G/CH → FREQ → SQ → VOL → NAME → REMO**

- (1) G/CH: Indicates or setups the receiver **GROUP** and **CHANNEL**.



#### A. Operating Procedures.

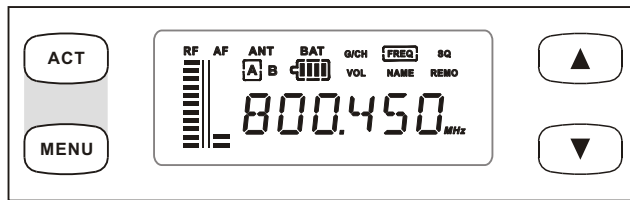


# ACT DUAL CHANNEL WIRELESS RECEIVER

## B. How to Operate?

- In the lower row of LCD display, TV CHANNEL, GROUP, and CHANNEL are separately shown in dual-digit numbers (from left to right).
- Push "UP" or "DOWN" button once and the number above "GROUP" will start blinking. Push "UP" or "DOWN" button now will permit user to change to another pre-programmed group. Push "MENU" button to confirm the modification and group number will stop blinking.

### (2) FREQ: Indicates the frequency that is currently in use.



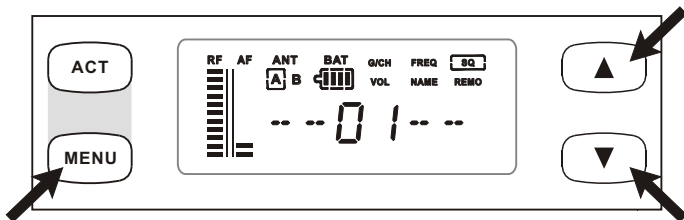
#### A. Operating Procedures.



#### B. How to Operate?

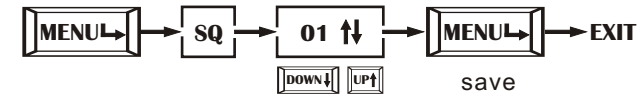
- After push "MENU" button and select the "FREQ" frame, it will show the frequency that is set under the GROUP and CHANNEL that one had selected previously.
- This function cannot be used for frequency alternation.

### (3) SQ: Indicates or setups the Squelch level.



# ACT DUAL CHANNEL WIRELESS RECEIVER

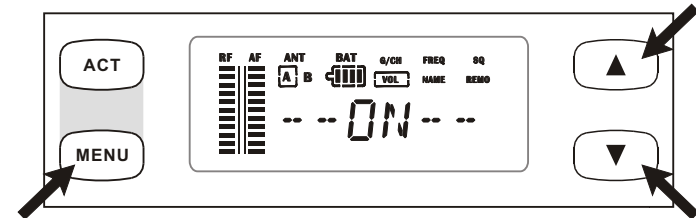
## A. Operating Procedures.



#### B. How to Operate?

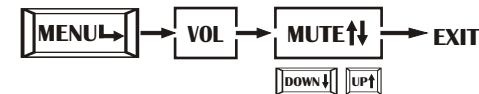
- User can set the squelch level within the range of 01-99.
- To set the squelch level, simply by pushing the "UP" or "DOWN" button and confirm the modification by pushing "MENU" button.

### (4) VOL: Indicates Volume Level is at On or Mute position.



#### Switching From Audible To Mute

##### A. Operating Procedures.



#### B. How to Operate?

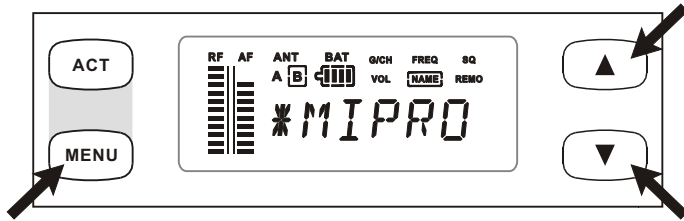
Push "UP" or "DOWN" Button allows one to switch volume to "ON" or "Mute" status.

#### C. CAUTIONS :

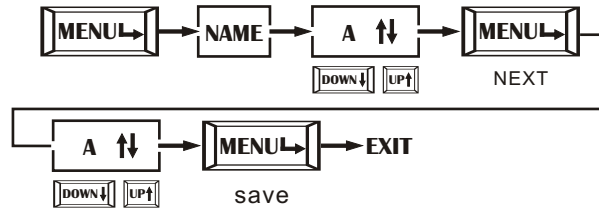
AF bar and Ant. A, B of LCD panel will not displayed when the receiver module is at Mute status. To ascertain if receiver is at Mute status, press Menu key, select Volume. If LCD indicates "Mute" it is a Mute status. If LCD indicates "On" audio is operating normally.

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(5) **NAME:** Indicates or setups the name of current channel user.



## A. Operating Procedures.

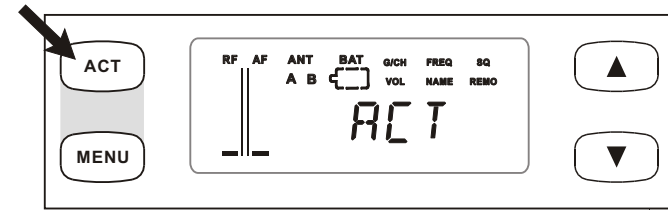


## B. How to Operate?

- Maximum 6 characters are allowed (Select from capitalized English letter, numbers, + - x /, and space).
- Push "UP" or "DOWN" button into setup mode and the character on the far left will start blinking. (There will be no blinking if there is no character in the specific space).
- Push "UP" or "DOWN" button to select desired character and confirm by pushing the "MENU" button. Once confirmed, the next character will start blinking and ready for setup.
- Repeat step c until ALL 6 characters are set.

# ACT DUAL CHANNEL WIRELESS RECEIVER

## Operation of ACT Feature:



## A. Operating Procedures.



## B. How to Operate?

- At LCD panel displays "Group" and "Channel" mode keystroke "ACT" button . ACT mode is activated when "ACT" word appears on the LCD panel.
- Position the "ACT" marking of the transmitter about 30cm (12-inch) towards the "ACT" button on the receiver. (see below figure)
- ACT function will release automatically once the transmitter channel is locked on. Simultaneously, "Group" and "Channel" mode will be back showing on the LCD panel.

