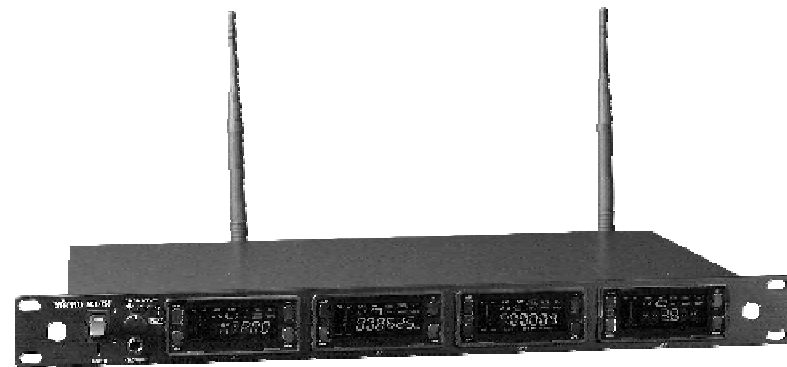


MIPRO

ACT Series 4 Channels Wireless Receiver Instruction Manual



ACT-707MA : LED DISPLAY



ACT-707MB : MONO LCD DISPLAY



ACT-707MC : COLOR LCD DISPLAY

MIPRO Electronics Co., Ltd.

Headoffice: 814, Pei-Kang Road, Chiayi, 600, Taiwan.

Taipei office: 5, Lane 118, Sung-teh Road, Taipei, 110, Taiwan.

Web-<http://www.mipro.com.tw> E-mail: mipro@mipro.com.tw



2CE092

1. INTRODUCTION ----- 1

2. PARTS NAME AND FUNCTIONS ----- 2-3

3. INSTALLATION OF THE RECEIVER ----- 4-5

4. HOW TO ASSEMBLE AND DISSEMBLE A RECEIVER MODULE -- 6

5. COMPUTER NETWORK INTERFACE OPERATION ----- 7-8

6. CAUTIONS ----- 9

1. INTRODUCTION

Thanks for choosing the most advanced 4 channel wireless receiver system from MIPRO.

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

ACT-707 series not only have the most stylish professional design, but also adapt the most advanced modularized structure design. Each standard rack receiver case has 4 slots enable for different receiver modules quick assembly and easy disassembly. Equipped with switching power supply, which can be used while connected externally or stock internally in the storage case on the back of the receiver. The front panel of the receiver is well designed for instant installation on the standard 19-inch rack case.

Included Accessories :

Antenna x 2 Instruction Manual x 1 Power Cable x 1

System Pairings :

ACT-707A: ACT-707 Receiver+ACT-707MA(Wireless Receiver Module with LED Display)
Select from MIPRO's UHF PLL handheld wireless microphones and belt pack transmitters.

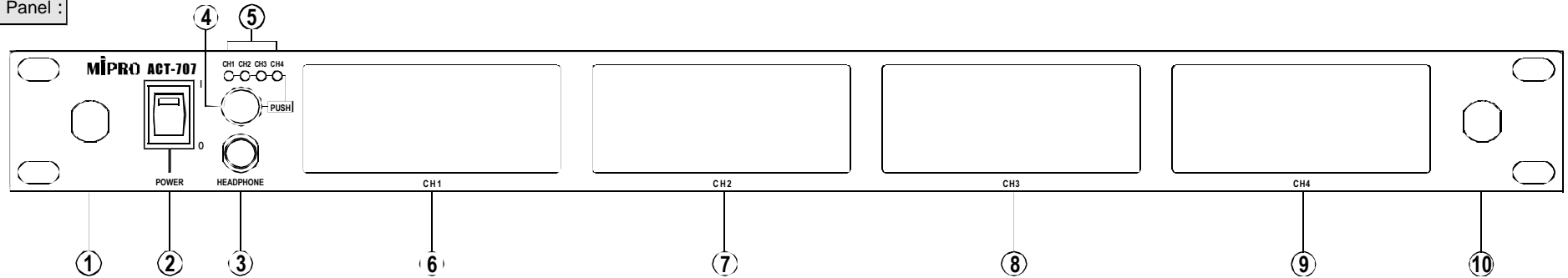
ACT-707B: ACT-707 Receiver+ACT-707MB(Wireless Receiver Module with MONO LCD Display)
Select from MIPRO's ACT handheld wireless microphones and belt pack transmitters.

ACT-707C: ACT-707 Receiver+ACT-707MC(Wireless Receiver Module with Color LCD Display)
Select from MIPRO's ACT handheld wireless microphones and belt pack transmitters.

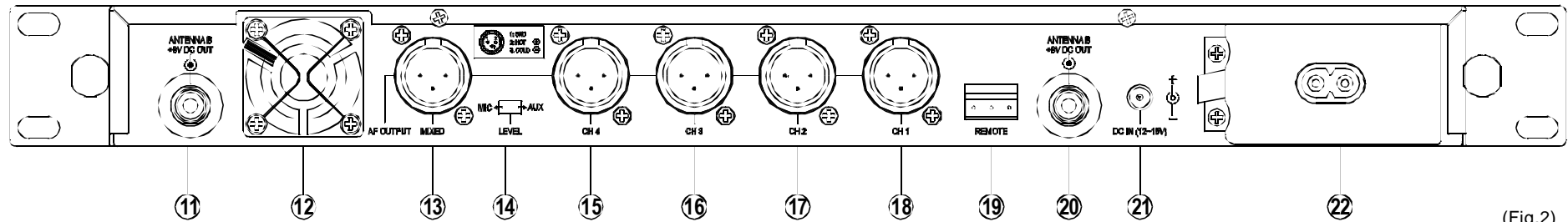
When simultaneous use of multi channels is needed, please refer to the non-interference frequencies, pre-arranged and tested by MIPRO, to avoid interference.

2. PARTS NAME AND FUNCTIONS

Front Panel :



Rear Panel :



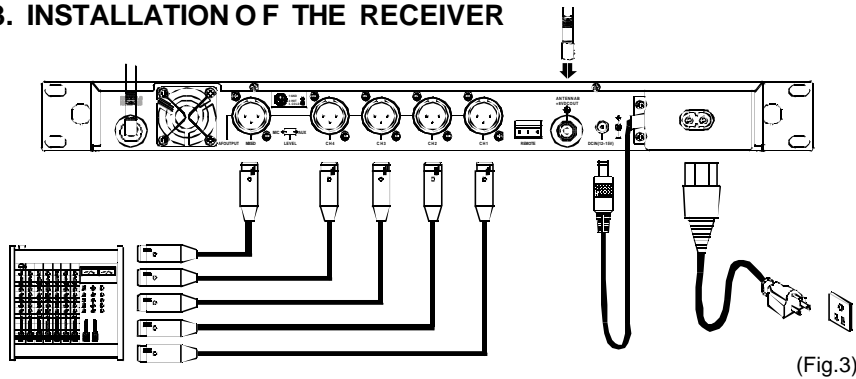
(Fig.1)

(Fig.2)

- (1) FrontAntennaAInputConnector: Allows an optional rear-to-frontAntennakit forfront antenna placement.
- (2) Power Switch & Indicator: When switchisturnedon, red indicator illuminates todenote normal power status.
- (3) HeadphoneJack:Toconnecttoastereoheadphone to monitor outputsignals.
- (4) Headphone Volume Control and Module Selector: Pushes the knob to selectthe module you would like tomonitor; turns the knob toadjust the volume ofthestereoheadphone.
- (5) Module Indicator: Points out selectedmonitoringmodule
- (6) Receiver Module 1: First Receiver ModuleSlot[Ch. 1]
- (7) Receiver Module 2: SecondReceiver Module Slot [Ch.2]
- (8) Receiver Module 3:Third Receiver Module Slot[Ch. 3]
- (9) Receiver Module 4: Fourth Receiver Module Slot[Ch. 4]
- (10) Front AntennaBInputConnector: Allows an optional rear-to-frontAntenna kitforfrontantenna placement.

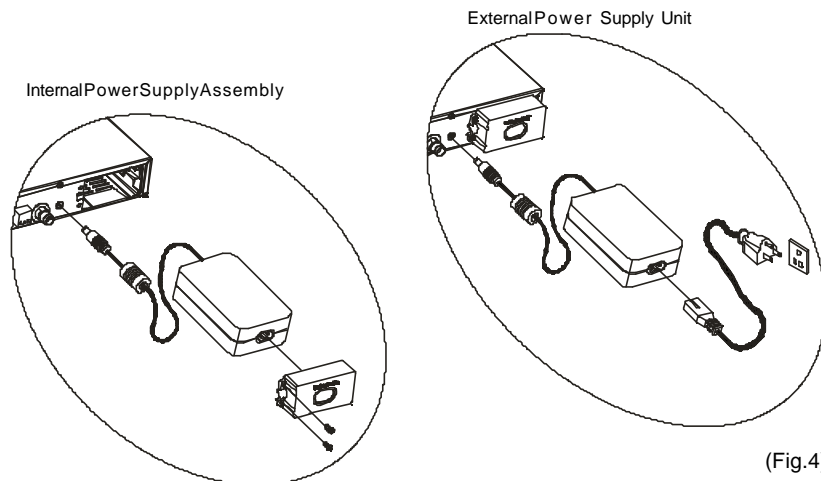
- (11) Rear Antenna B input Connector: B Antennaconnectorcanbeinstalledwithantenna directly and provides power for antenna booster.
- (12) Heat Sink: Pleasekeepit adequatelyventilated.
- (13) Mixed AFOutput Socket: A balanced output socketformixedAFsignalsfromall installed modules;2 outputlevelsto switch from.
- (14) Mixed AFOutput Level Switch: Canswitch theoutput toMICorAUXlevel.
- (15) Output Socket forModule 4: The balancedoutput socket for fourth receiver module. [Ch.4]
- (16) Output Socket forModule 3: The balancedoutput socket for thirdreceivermodule. [Ch. 3]
- (17) O utput Socket forModule 2: The balancedoutput socket forsecondreceivermodule. [Ch. 2]
- (18) Output Socket forModule 1: The balancedoutput socket for firstreceivermodule. [Ch. 1]
- (19) Computer Network InterfaceConnector:Networksocket to connect to the computerized system-monitoring program.
- (20) RearAntennaAinput Connector:AAntennaconnector can be installed with antennadirectly and provides power for antenna booster.
- (21) DCInputSocket: Theinput socket for 12 VoltDC power. Pleasenote that the polarity of the central pin in the socketispositive (+).
- (22) ACPowerSocket: Theinput socketforAC power. UsesAC powerranging from 90ACVto264 ACVwithout changing any application.

3. INSTALLATION OF THE RECEIVER



(Fig.3)

1. Install 2 separate antennas on the antenna sockets (11), (20) on the rear panel. Illustrated in figure 3.
2. Connecting the power supply: When using AC power supply, attach the female end of the power cord to the receiver (22) and plug the male end to the AC power outlet. Afterward, take the DC output cord from the power module and plug into the DC input socket (21). Illustrated in figure 3.
3. ACT-707 adapts switching power supply module. The switching power supply not only can be used while connected externally (figure 4), but also stock internally in the storage case on the back of the receiver (figure 3).



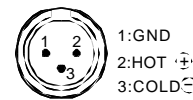
(Fig.4)

4. Audio Output Connection

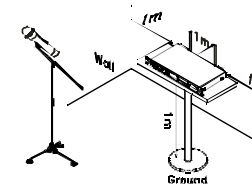
Mixed Output: Balanced output socket (XLR) must connect to the balanced input socket of the mixer. This output socket generates the mixed output of Ch.1 - Ch.4 and the output sensitivity can be adjusted to AUX level or MIC level by the level switch on the right side of the socket. Generally speaking, AUX level is to coordinate the input sensitivity of electric guitar amplifier.

Independent Outputs: There are four balanced output sockets for individual outputs of CH1-CH4. All use balanced (XLR) output sockets and the output sensitivities have been pre-set to mic level to coordinate the input level of the mixer (MIC level as well). (Figure 5)

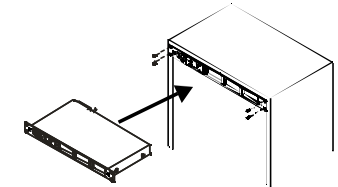
5. **Antenna Socket:** The antenna socket provides 8 Volt DC power, which enables you to pair with MIPRO's antenna booster directly. When the connecting cable for the antenna is more than 10 meter, it is recommended to install antenna booster to make up the signal loss caused by the cable and to ensure the sensitivity of reception.



(Fig.5)



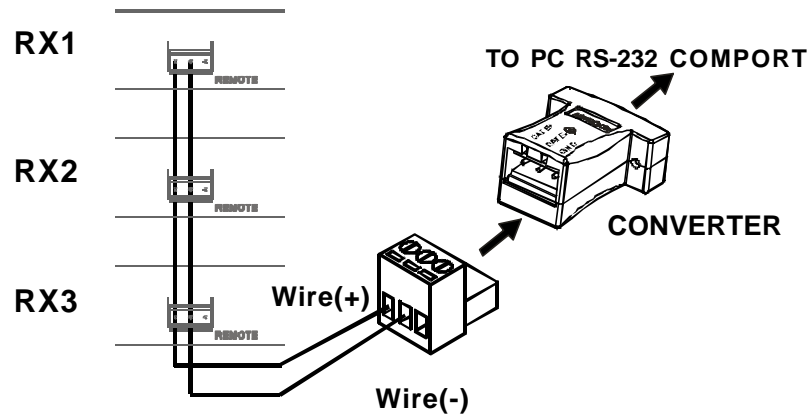
(Fig.6)



(Fig.7)

6. To ensure the 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 6)
7. 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 7)

This interface system adapts parallel connection. Therefore, it takes only 2 linking wires to complete the connection to the converter of the whole system.



(Fig.10)

This system can connect up to 64 receiver modules for simultaneous operation. Hence, if 4 receiver modules are installed in each ACT-707, this controlling system can operate up to 16 ACT-707 receivers.

Though longer the distance is, worse the stability will be; nevertheless, the network connecting cable can still operate while it is 300 meters long. However, it is our recommendation to keep the cable under 100 meters long to ensure high-speed transmission.

Please refer to the LCD module's users manual for software operation.

6. 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 3 A.
2. Use only MIPRO standard antenna to ensure the sensitivity of the receiver.
3. Use only stereo instead of mono headphone as the monitoring headphone.
4. Antenna socket has 8-volts DC power supply; please do not short the circuit of this part.