

MIPRO[®]

MT-24A

2.4 GHz Digital Stationary Transmitter

User Guide

FOR AVLEX ONLY



MIPRO[®]
MICROPHONE PROFESSIONALS

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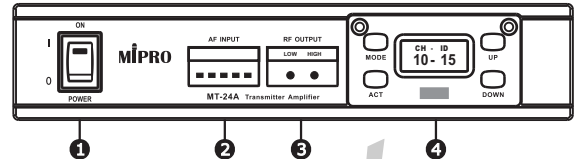
Specifications and design subject to change without notice.

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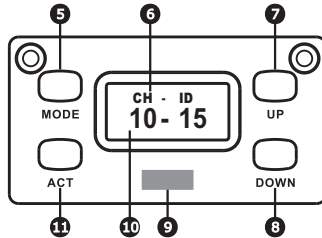
Controls and Indicators

Front Panel



- ❶ **Power Switch & Indicator:** Red indicator is illuminated after power is turned on.
- ❷ **AF Signal Indicators:** Indicate the input audio signal level.
- ❸ **RF Signal Indicators:** Indicate the output RF signal level.
- ❹ **Wireless Transmitter Panel:** Preset with user-selectable 12 channels & 16 ID Codes.

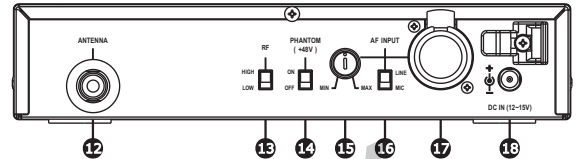
Transmitter Panel



- 5 MODE button:** To select CH (Channel) or ID (ID Code) setup.
- 6 LCD Screen:** Display CH (Channel) & ID (ID Code).
- 7 UP button:** Increase parameter value.
- 8 DOWN Button:** Decrease parameter value.
- 9 ACT sync window:** Synchronize the receiver frequency automatically.
- 10 Parameter:** Display for the selected Channel and ID Code numbers.
- 11 ACT button:** Press this button to sync Channel & ID Code with a MIPRO ACT-24R receiver.

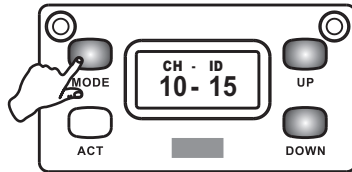
Controls and Indicators

Rear Panel



- 12 RF Output Connector:** Connect directly to a transmitting antenna or extend to external antenna by RF cable.
- 13 RF Output Switch:** High or Low RF level switch.
- 14 +48V Phantom Power Switch:** Can be switched to offer +48V Phantom power to wired microphones or not.
- 15 AF Level Knob:** Adjust to select the optimal sensitivity without distortion.
- 16 AF Level Switch:** MIC LEVEL(0dB) and LINE LEVEL(-20dB) audio output for optimal modulation index.
- 17 Combo Jack Connector:** Balanced (XLR) or unbalanced (1/4-inch) audio input signals.
- 18 DC Voltage Input Connector:** 12~15V DC voltage, the center pole of the DC connector is positive voltage.

Controls and Indicators



1. CH-ID: Channel | ID Code

Channel Set-up Instructions:

- Press MODE button to activate setup mode and until CH icon starts to flash.
- Press UP or DOWN button to increase or decrease channel number during CH icon flashing.

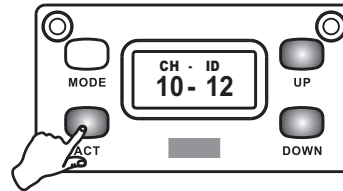


ID Code Set-up Instructions

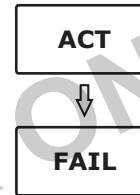
- Press MODE button to activate setup mode and until ID icon starts to flash.
- Press UP or DOWN button to increase or decrease ID Code number during ID icon flashing.



2. ACT Synchronization



Press ACT button to activate frequency synchronization with a matching receiver

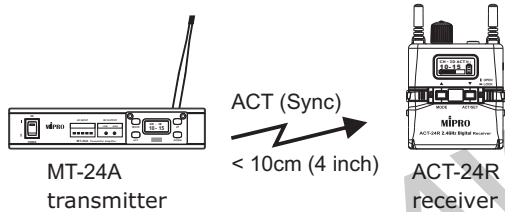


FAIL icon appears with a failed synchronization

- Power on transmitter and receiver. The infrared sync windows of both transmitter and receiver need to face and within 10cm (4-inch) of each other before the ACT button is pressed. Press ACT button to activate frequency synchronization with a matching receiver. ACT icon appears once ACT button is pressed. FAIL icon appears when frequency synchronization is performed unsuccessfully.
- Once the frequency synchronization is performed successfully, CH-ID with the selected reappears.

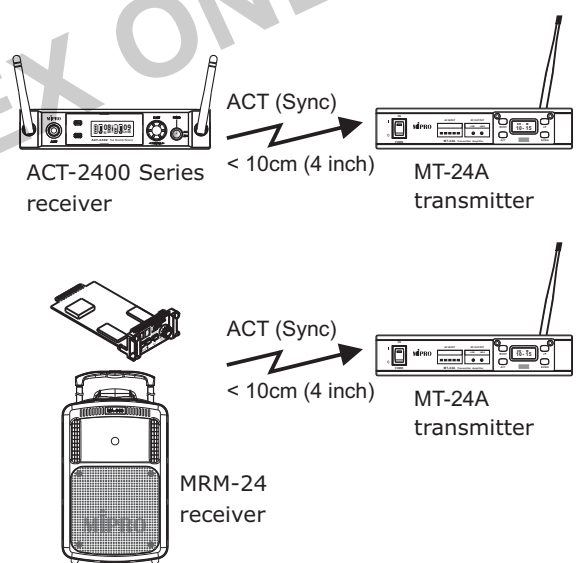
3. ACT Synchronization with ACT-24R receiver: Set-up Instructions

ACT Synchronization normally allows you to automatically synchronize the frequency selected for your receiver, to your handheld and bodypack transmitters or in certain specific device like MT-24A, frequency selected for your transmitter, to your receiver, all at a simple touch of a button.



4. ACT Synchronization with ACT-2400 series receivers and MRM-24 receiver module Set-up Instructions

ACT Synchronization allows you to automatically synchronize the frequency selected for your receiver, to your handheld and bodypack transmitters, at a simple touch of a button.

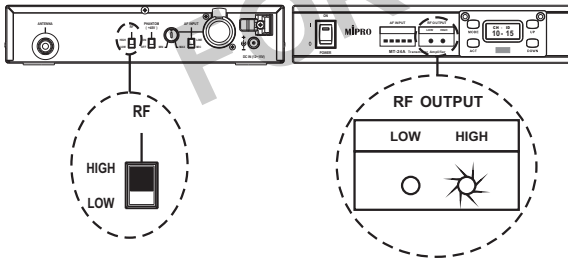


Operating Tips

This transmitter has a higher power than the average handheld or bodypack transmitters. Interference may occur to wireless microphone systems. Switch to a different transmitter channel if interference occurs.

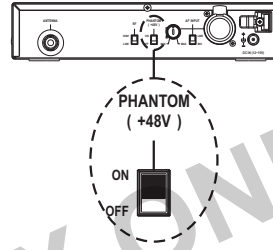
Proper RF Output Level and Output Connector Settings

High or Low RF level switch is located at the rear panel. Front panel will display current High or Low RF output power setting.



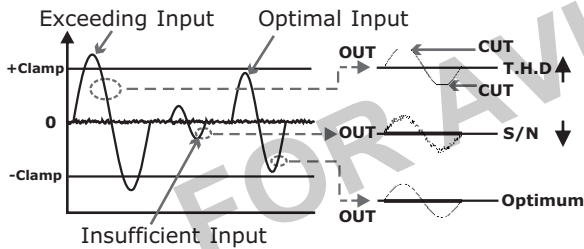
+48V Phantom Power Setting

+48V Phantom Power is available from the combo jack connector. Use the +48V Phantom Power Switch at the rear panel to active this function.



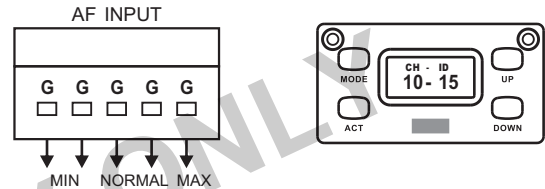
Proper AF (audio) Input and Connection

- Combo jack connector accepts balanced (XLR) or 1/4-inch(6.3mm) unbalanced cable.
- Proper input volume adjustment is needed after AF signal is connected.
- Two selectable AF levels (MIC/LINE) can be selected from AF Level Switch ⑫ for optimal audio sensitivity. Exceeding input volume will result in distortion for receiver AF output, and insufficient input volume will degrade the S/N ratio that increases higher background noise. RF, proper setting ensures optimal output audio quality.

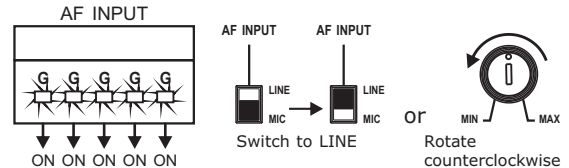


Optimal AF Input Volume Setting

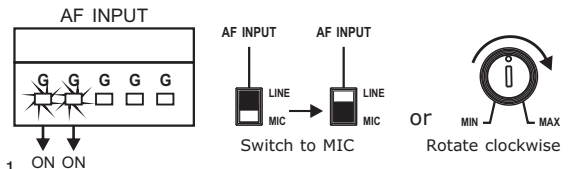
- The AF Signal Indicators ⑭ indicates the input audio signal level.
- Normal volume: 2~3 LEDs are illuminated.
- High volume: 4 LEDs are illuminated.
- Peak volume: Red Limit indicator will be illuminated to denote warning.



- When 4~5 LEDs are illuminated constantly it denotes exceeding input volume and input attenuation is required. Switch the input volume switch ⑫ to -20dB or adjust the AF Level Knob ⑬ counterclockwise for modification.



- When 1~2 LEDs are illuminated constantly it denotes insufficient input volume and less input attenuation is required. Switch the input volume switch ⑫ to 0dB or adjust the AF Level Knob ⑬ clockwise for modification.



Federal Communication Commission Interference Statement

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 is encouraged to try to correct the interference by one 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.

FCC Caution: To assure continued compliance, any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment. (Example - use only shielded interface cables when connecting to computer or peripheral devices).

FCC Radiation Exposure Statement

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 0.5 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The antennas used for this transmitter must be installed to provide a separation distance of at least 0.5 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC 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.

IC

This device complies with Industry Canada RSS-210 ISSUE 2 standards. Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Notes

1. Refer to actual product in the event of product description discrepancy.
2. Frequency range and maximum deviation comply with the regulations of different countries.

WARNING**1. FOR OUTDOOR USE:**


To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.


2. UNDER WET LOCATION:


Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases should be placed on the apparatus.

3. SERVICE INSTRUCTIONS:

CAUTION - These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.



 This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.

 This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.

Disposal

Dispose of any unusable devices or batteries responsibly and in accordance with any applicable regulations.




Disposing of used batteries with domestic waste is to be avoided!

2005-06-15

Batteries / NiCad cells often contain heavy metals such as cadmium(Cd), mercury(Hg) and lead(Pb) that makes them unsuitable for disposal with domestic waste. You may return spent batteries/accumulators free of charge to recycling centres or anywhere else batteries/accumulators are sold.

By doing so, you contribute to the conservation of our environment!

! IMPORTANT SAFETY INSTRUCTIONS !

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarised or ground plug: A polarised plug has two blades with one wider than the other. The wide blade is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plug, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.
16. Apparatus should not be exposed to dripping or splashing and no objects filled with liquids, should be placed on the apparatus.
17. Use only with the battery which specified by manufacturer.
18. The power supply cord set is to be the main disconnected device.
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