



## MTS-100

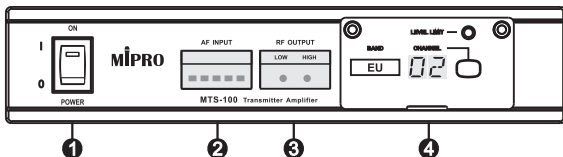
### Digital Interlinking Transmitter

### User Guide

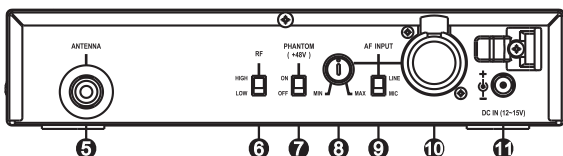


## I. Parts Name

### A. Front Panel

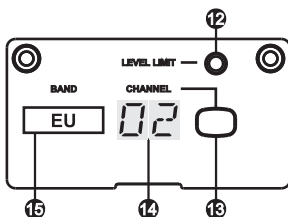


### B. Rear Panel



- ❶ Power Switch & Indicator
- ❷ AF Signal Indicators
- ❸ RF Signal Indicators
- ❹ Transmitter Module: Plug-in module preset with 16 selectable channels.
- ❺ RF Output Connector
- ❻ RF Output Switch
- ❼ +48 Phantom Power Switch
- ❽ AF Level Knob
- ❾ AF Level Switch: MIC LEVEL (0 dB) and LINE LEVEL (-20 dB) audio output for optimal modulation index.
- ❿ Combo Jack Connector
- ⓫ DC Input Connector

## II. Parts Name



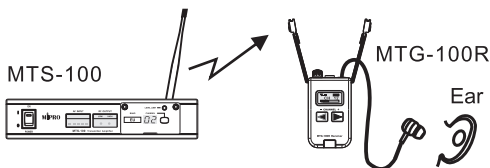
- ⑫ LEVEL LIMIT Volume Limiter Indicator
- ⑬ Channel button
- ⑭ Channel screen
- ⑮ Frequency Band Code

## III. Transmitter Frequency Set-Up

1. Press the Channel button ⑬, the channel number displayed on the Channel screen ⑭ will increase progressively until a clear channel. There are 16 preset selectable channels.
2. Volume Limit Indicator ⑫ will not be lit under normal input signals. Volume Limiter Indicator will be lit if over normal input signals. Reduce volume to the desired level.

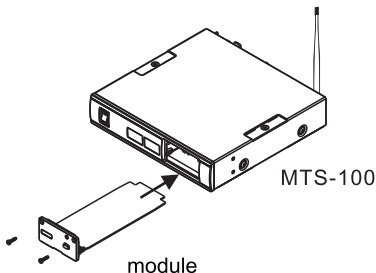
## IV. Operating Tips

1. Select the proper transmitter module:
  - (A) The transmitter functions only with MIPRO transmitter modules.
  - (B) When interference occurs, use the MTG-100R receiver to find the interference-free channel first then setting the transmitter by the same channel.
  - (C) MTS-100 wireless transmitter can be installed as a stationary transmitter to be used concurrently with multiple MTG-100R portable receivers as a wireless tour guide/simultaneous language interpretation system.



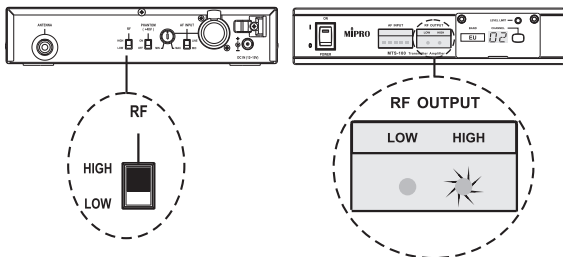
### 2. Module Installation:

- (A) Remove the front cover plate.
- (B) Insert module gently into slot horizontally.
- (C) Fasten the panel with the attached two screws.



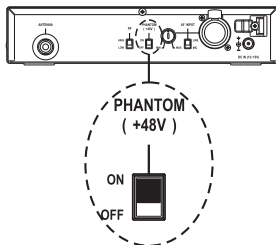
## 3. Proper RF Output Level and Output Connector Settings:

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



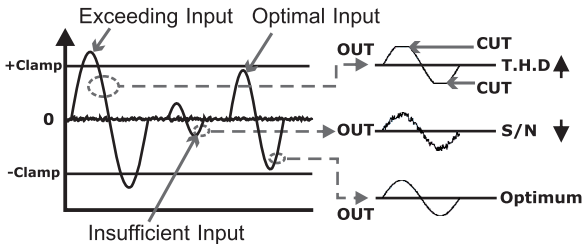
## 4. +48V Phantom Power Setting:

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



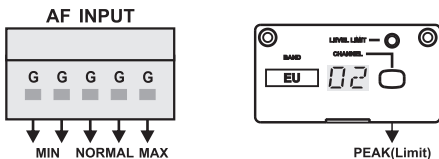
## 5. Proper AF (audio) Input and Connection:

- (A) Combo jack connector accepts balanced (XLR) or 1/4-inch (6.3 Ø) unbalanced cable.
- (B) Proper input volume adjustment is needed after the AF signal is connected. Two selectable AF levels (MIC/LINE) can be selected from AF Level Switch ⑨ 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.

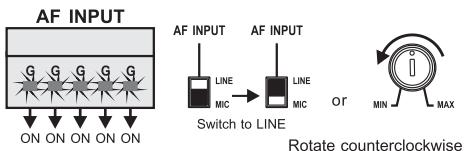


## 6. Optimal AF Input Volume Setting:

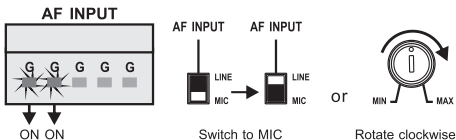
- (A) The AF Signal Indicators ② indicates the input audio signal level. Normal volume: 2~3 LEDs are lit. High volume: 4 LEDs are lit. Peak volume: Red Limit indicator will be lit to denote warning.



- (B) When 4~5 LEDs are lit constantly it denotes exceeding input volume and input attenuation is required. Switch the input volume switch ⑨ to -20dB or adjust the AF Level Knob ⑧ counterclockwise for modification.

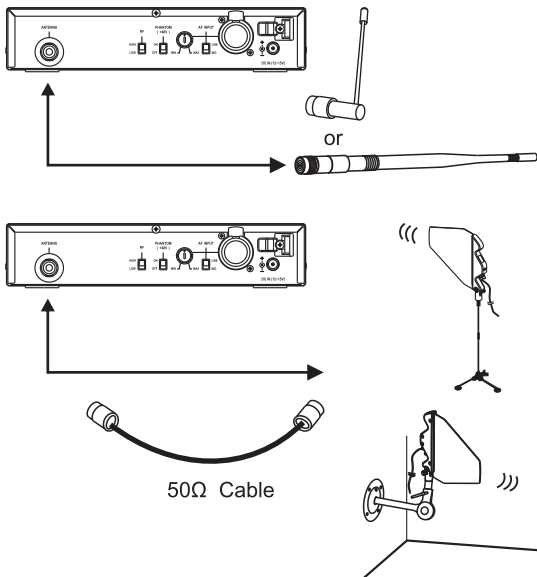


- (C) When 1~2 LEDs are lit constantly it denotes insufficient input volume and less input attenuation is required. Switch the input volume switch ⑨ to 0dB or adjust the AF Level Knob ⑧ clockwise for modification.



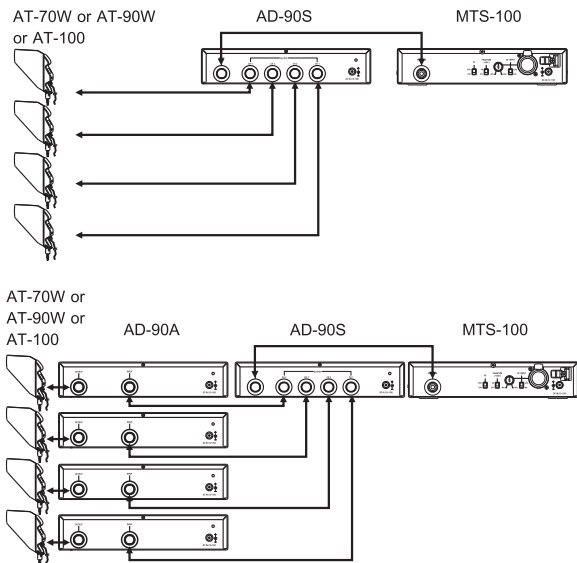
## 7. Selection of Transmitting Antenna AF Input Volume Setting:

- (A) MIPRO UHF antennas such as non-directional  $1/4 \lambda$  antenna and  $1/2 \lambda$  antenna, AT-70W, AT-90W or AT-100 wideband directional antenna can be selected as the transmitting antenna to increase transmitting range.
- (B) The use of AT-70W, AT-90W or AT-100 wideband directional antenna connected with 50 $\Omega$  coaxial cable provides higher transmission efficiency for the system.





- (C) MIPRO AD-90S high power splitter, or AD-90A high power amplifier, can be installed to greatly increase transmitting range and coverage to reduce signal dropouts.



## V. Notes

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

### 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).

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 licence-exempt RSS-210 standard. 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.

### Disposal



2005-08-13

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!

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!

**MIPRO<sup>®</sup>**  
MICROPHONE PROFESSIONALS

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