



MTS-100

Digital Wireless Language Interpretation System



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MTS-100 is an innovative digital wireless simultaneous / tour guide language interpretation system. Featuring industry's smallest and lightest system and the only true diversity design. Crystal-clear and secured communication in different environments thanks to its proprietary digital technology. This feature-packed system is user-friendly and easy to use.

Ultra Compact, Ultra Lightweight

Smaller and lighter than any industry's wireless language interpretation systems or mobile phones as it weighs only 65 g / 2.3 oz (battery included), it can easily be held with one hand, fit in a pocket or worn by an adjustable neck lanyards.

Secured Digital Transmission, Crystal Clear Audio

Digitally encrypted technology enables secure audio transmission, preventing unauthorized listening. Advanced digital design provides crystal-clear audio quality, interference-free from Bluetooth, Wi-Fi and 2.4GHz wireless transmission and unmatched by the deficiency of simple analog design systems. Digital technology ensures every word can be heard clearly especially at places with noisy environments.

Optimum Reception

Industry's only true diversity technology for up to 100 meters / 330 feet radius range of reliable reception quality.

Rechargeable Lithium Battery

Built-in high performance lithium polymer rechargeable battery ensures over 14 hours per fast charge.

16 User Selectable Channels

Maximum flexibility and ensures four different languages can be operated at the same venue without interfering with each other.

License-free Frequency Ranges

ISM bands in EU 863~865 & USA 926~928 MHz require no user licensing; thus, no worries about charging groups and channels when operating in multiple countries.



Conference



Employee Training



Houses of Worship

*New Psalmist Baptist Church Baltimore, Maryland, USA
Photographer: Michael Clark*



Courtroom

IDEAL APPLICATIONS

- Conferences or Conventions
- Houses of Worship
- Meetings
- Educational Institutions
- Employee & Dealers Training

- Courtrooms
- Hotels & Resorts
- Medical Facilities
- Bus/Van/Boat Tours

Digital Portable Receiver **MTG-100R/MTG-100Ra**



Digital Portable Transmitter **MTG-100T/MTG-100Ta**



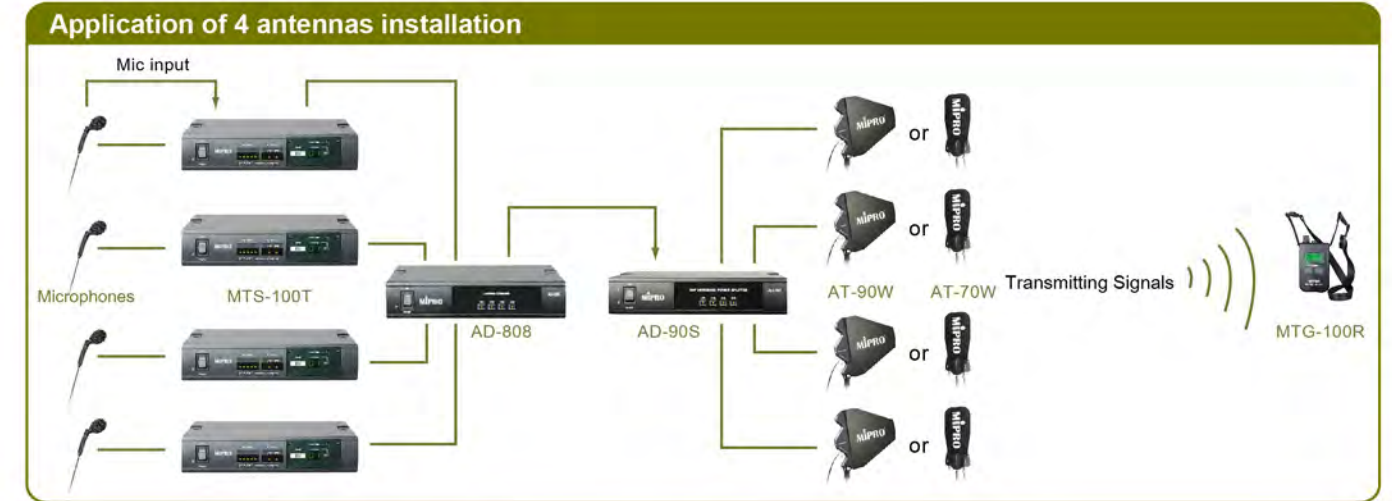
Digital Stationary Transmitter **MTS-100T**



MTS-100T System Configuration

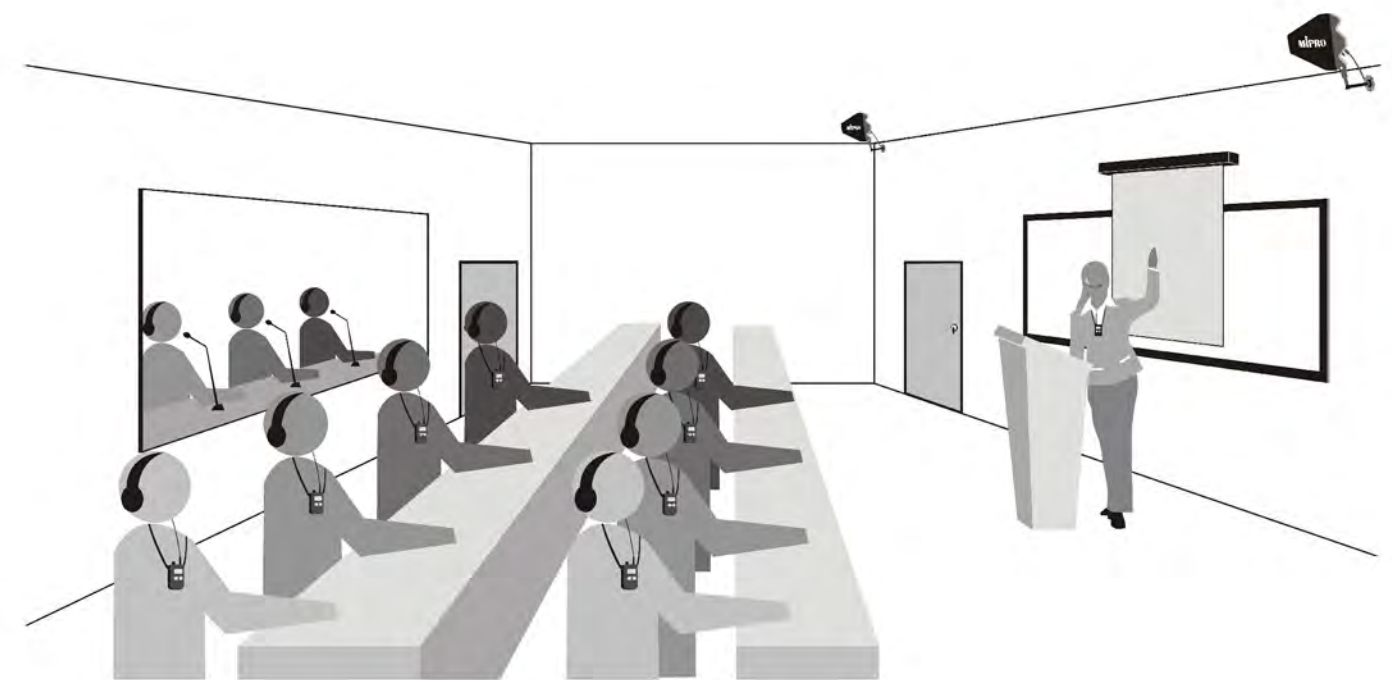


MTS-100T Antenna Systems Applications



Notes:

- (1) The number of antennas required to effectively cover a venue depends on the venue size.
- (2) To achieve reliable transmission & reception quality, consultation with seasoned audio professionals is highly recommended.



STORAGE & CHARGER CARRY CASES

MTG-100C-12



MTG-100C-28



PC Interface

(for MTG-100C-28 only)
Ethernet network interface & ACT-BUS static IP set up interface.



ACCESSORIES

For MTG-100T portable transmitter

MU-101

Headworn Microphone



MM-10

Mini-gooseneck Microphone



For MTG-100R portable receiver

E-20S

Stereo Headphones



E-10S

Stereo Earphones



E-5S

Single Earphone



For MTS-100T stationary transmitter

MM-202

Gooseneck Microphone



MU-210

Dual-Sided Headworn Mic.



MU-53L

Uni-Directional Lavalier Mic.



MJ-53

Condenser Microphone Adaptor



For Antenna System Installation

AD-808

4-Channel Active Antenna Combiner



AD-90S

4-Channel Wideband Power Splitter



AD-12

Passive Antenna Divider/Combiner



AT-70W

Wideband Ground Plane Antenna



AT-90W

Wideband Transmitting and Receiving Log Antenna



SPECIFICATIONS

| Receiver & Transmitter | MTG-100R/MTG-100Ra | MTG-100T/MTG-100Ta | MTS-100T |
|--------------------------|---|---|---------------------------------------|
| Frequency Range | CEPT/EU: 863-865 MHz / USA: 926-928 MHz | | |
| Oscillation Mode | PLL Synthesized | PLL Synthesized | PLL Synthesized |
| Preset Channels | 16 | 16 | 16 |
| Switching Bandwidth | 2 MHz | 2 MHz | 2 MHz |
| Channel Grid | 125 KHz | 125 KHz | 125 KHz |
| RF Output Power | N/A | <10 mW (Low / Mid / High, switchable) | <10 mW (Low) <50 mW (High) |
| Sensitivity | Approx. -90 dBm | N/A | N/A |
| Operating Range | Approx. 100 meters (line-of-sight) | | >100 meters (Hi Power) |
| Frequency Response | 50 Hz~10 KHz | 50Hz~10 KHz | 50 Hz~10 KHz |
| AF Input Level | N/A | <1V RMS (Line In) | <15V RMS (Line In) |
| Power Supply | MTG-100R/MTG-100T : Built-in high capacity lithium polymer rechargeable battery MTG-100Ra/MTG-100Ta : 2 x AA batteries | | 12~15V DC |
| Current Consumption | N/A | N/A | Approx. 510 mA@12V DC |
| Operating Hours | >14 hours | >12 hours | N/A |
| Automatic Shut-Off Timer | 10 minutes~42 hours (programmable) | | N/A |
| Dimensions(WxHxD) | MTG-100R/MTG-100T:45 x 84 x 21 mm / 1.8 x 3.3 x 0.8 " MTG-100Ra/MTG-100Ta:45 x 84 x 28 mm / 1.8 x 3.3 x 1.1 " | | 210 x 44 x 206 mm / 8.3 x 1.7 x 8.1 " |
| Weight | MTG-100R:65 g / 2.3 oz (Li-poly battery included) MTG-100Ra:70 g / 2.47 oz (excluding batteries) | MTG-100T:67 g / 2.4 oz (Li-poly battery included) MTG-100Ta:72 g / 2.54 oz (excluding batteries) | Approx. 1.1 kg / 2.4 lbs |

| Storage & Charger Carry Case | MTG-100C-12 | MTG-100C-28 |
|------------------------------------|--|--|
| Charge Systems | 12 (portable receivers and transmitters) | 28 (portable receivers and transmitters) |
| Charging Time | < 4 hours | < 4 hours |
| Max. Power Consumption | 26W | 80W |
| Dimensions(WxHxD) | 403 x 133 x 306 mm / 15.9 x 5.2 x 12 " | 530 x 190 x 330 mm / 20.9 x 7.5 x 13 " |
| Net Weight | < 6 kg / 13 lbs | < 9 kg / 20 lbs |
| Ethernet Networking Interface | No | Yes |
| ACT-BUS static IP set up interface | No | Yes |

| Microphone | MM-10 | MU-101 |
|--------------------|---|--|
| Capsule Module | 4.5mmØ omni-directional subminiature condenser microphone | 10mmØ uni-directional miniature condenser microphone |
| Frequency Response | 40 Hz~20 KHz | 50 Hz~18 KHz |
| Maximum SPL | 135 dB (Typical, 1% T.H.D.) | 135 dB (Typical, 1% T.H.D.) |
| Sensitivity | -49 dBV±3 dB at 1 KHz (0 dB=1V / Pa) | -49 dBV±3 dB at 1 KHz (0dB=1V / Pa) |
| Plug | 3.5mm stereo minijack | 3.5mm stereo minijack |
| Length | 11 cm / 4.3 " (flexible gooseneck included) | 150 cm / 59.1 " (cable only) |
| Weight | Approx. 8 g / 0.3 oz | Approx. 24 g / 0.8 oz |

| Earphone | E-5S | E-10S | E-20S |
|--------------------|---|---|--|
| Driver Unit | 24mmØ | 10mmØ | 30mmØ |
| Frequency Response | 100 Hz~2 KHz | 20 Hz~15 KHz | 20 Hz~20 KHz |
| Sensitivity | 108 dB±3 dB at 1 mW | 103 dB±3 dB at 1 mW | 105 dB±3 dB at 1 mW |
| Max. Input Power | 100 mW | 20 mW | 100mW |
| Impedance | 32±15%Ω at 1 KHz 1 mW | 16 Ω at 1 KHz 1 mW | 24 Ω at 1 KHz 1 mW |
| Plug | 3.5mm stereo minijack | 3.5mm stereo minijack | 3.5mm stereo minijack |
| Cable Length | 120 cm / 47.2" | R side: 40 cm+55 cm / 15.7" + 21.7" L side: 10 cm+55 cm / 3.9" + 21.7" | 120 cm / 47.2" |
| Weight | Approx. 10 g / 0.35 oz (cable included) | Approx. 20 g / 0.7 oz (cable included) | Approx. 80 g / 2.8 oz (cable included) |