



# 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

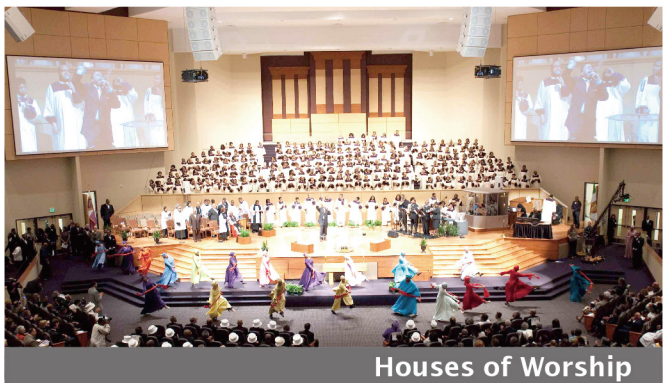
ISM bands in EU 863~865 & USA 926~928 MHz require no user licensing; thus, no worries about charging groups and channels when operating in multiple countries.



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**

- Volume Control**  
1~20 levels
- LCD Screen**  
Channel, battery & charging status, audio & RF signals
- Rechargeable Battery**  
Up to 14-hour life per charge or **Disposable Batteries**
- 3.5mm Mini-Jack**  
earphones or headphones
- Channel Buttons**  
16 preset channels; Channel lock prevents changes
- ACT Sync Port**  
ACT™ syncs the transmitter and receiver frequency automatically

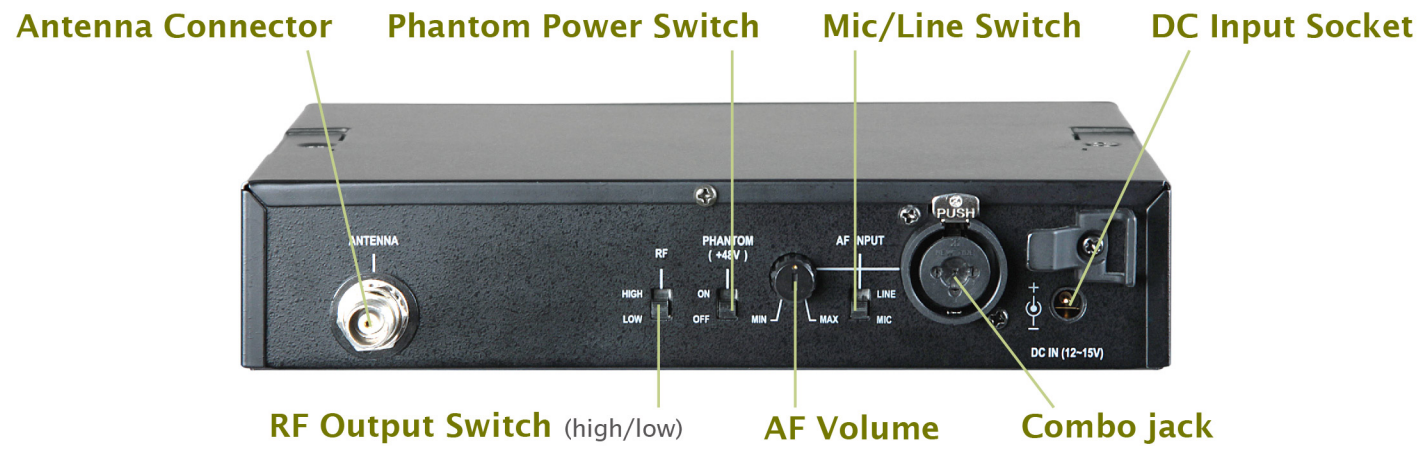
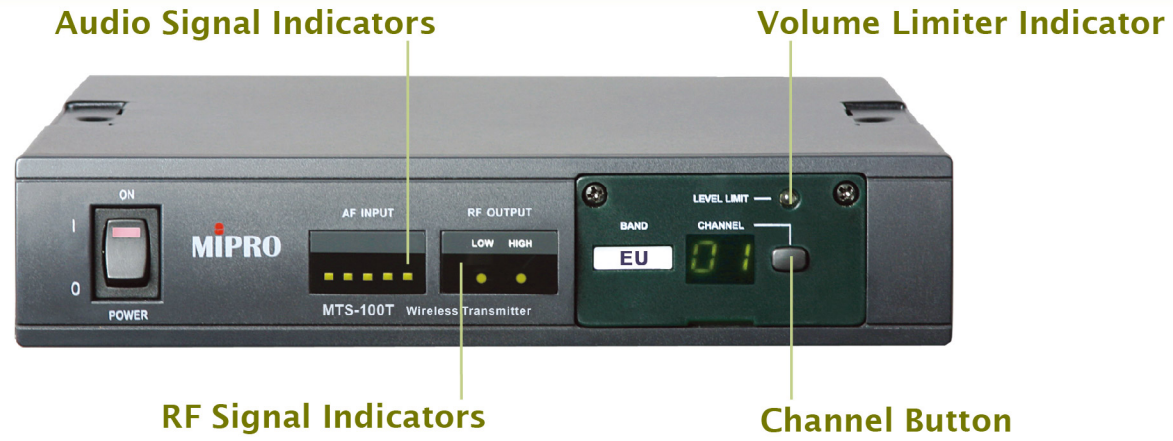
## Digital Portable Transmitter **MTG-100T/MTG-100Ta**

- LCD Screen**  
Channel, battery status, RF & audio signals, gains level & RF power
- ACT Sync Port**  
ACT™ syncs the transmitter and receiver frequency automatically
- 3.5mm Jack**  
Secured screw-lock for microphone or line input
- Programmable Parameters**  
Channel, Sensitivity level, Audio Input Source, RF Output Power
- Rechargeable Battery**  
Up to 12-hour life per charge or **Disposable Batteries**

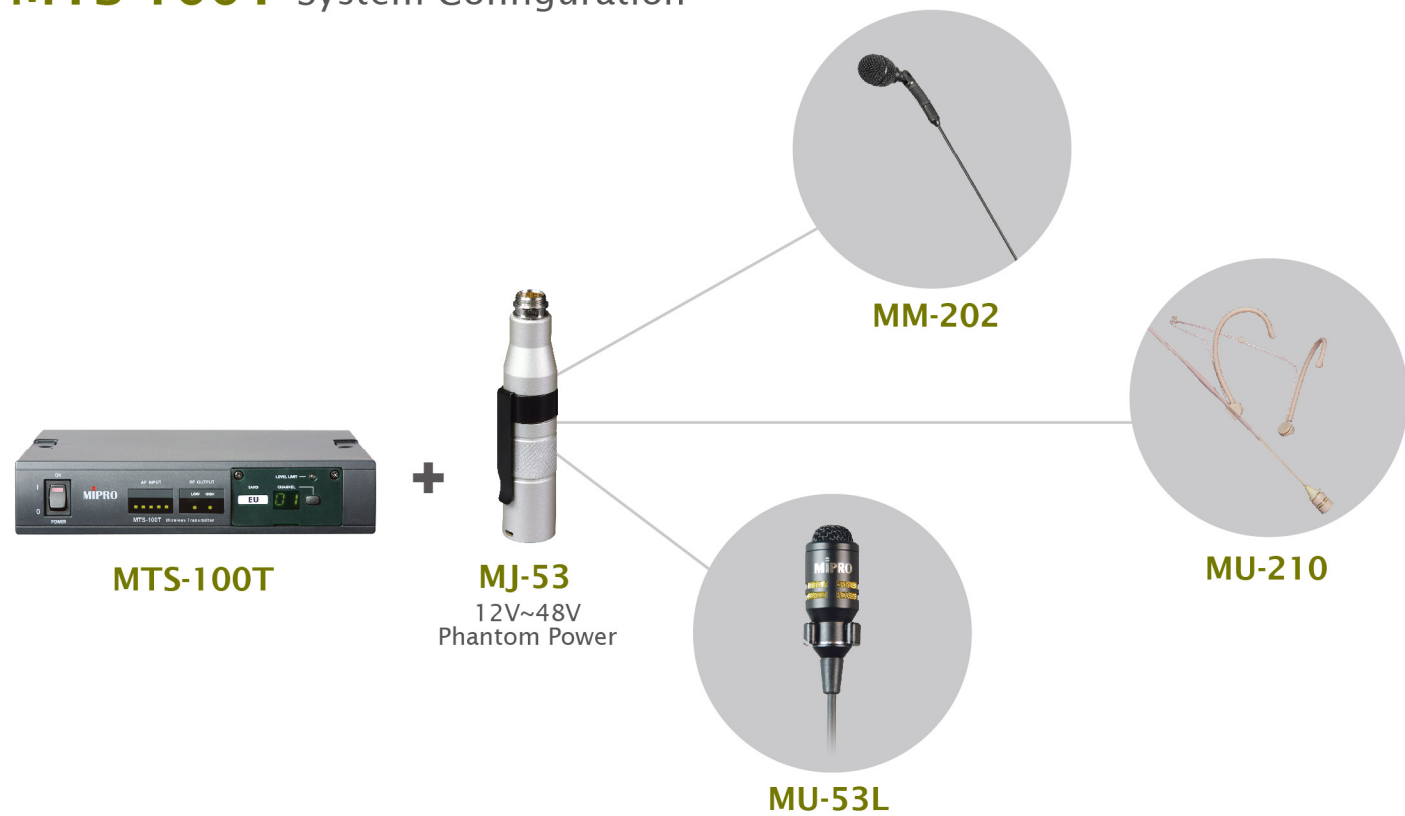




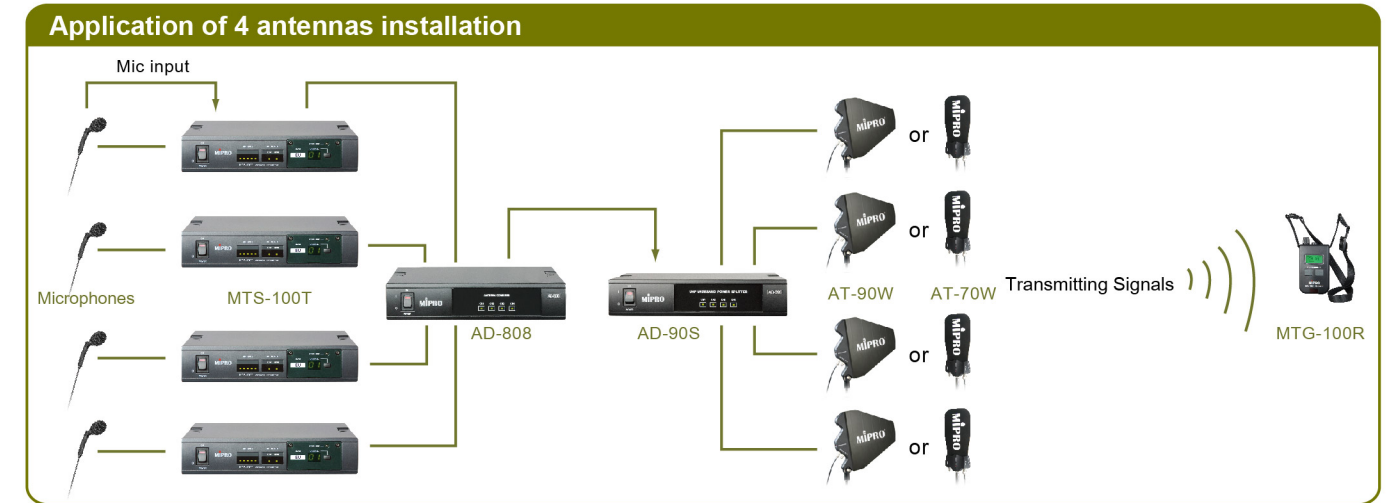
# Digital Stationary Transmitter **MTS-100T**



## **MTS-100T** System Configuration

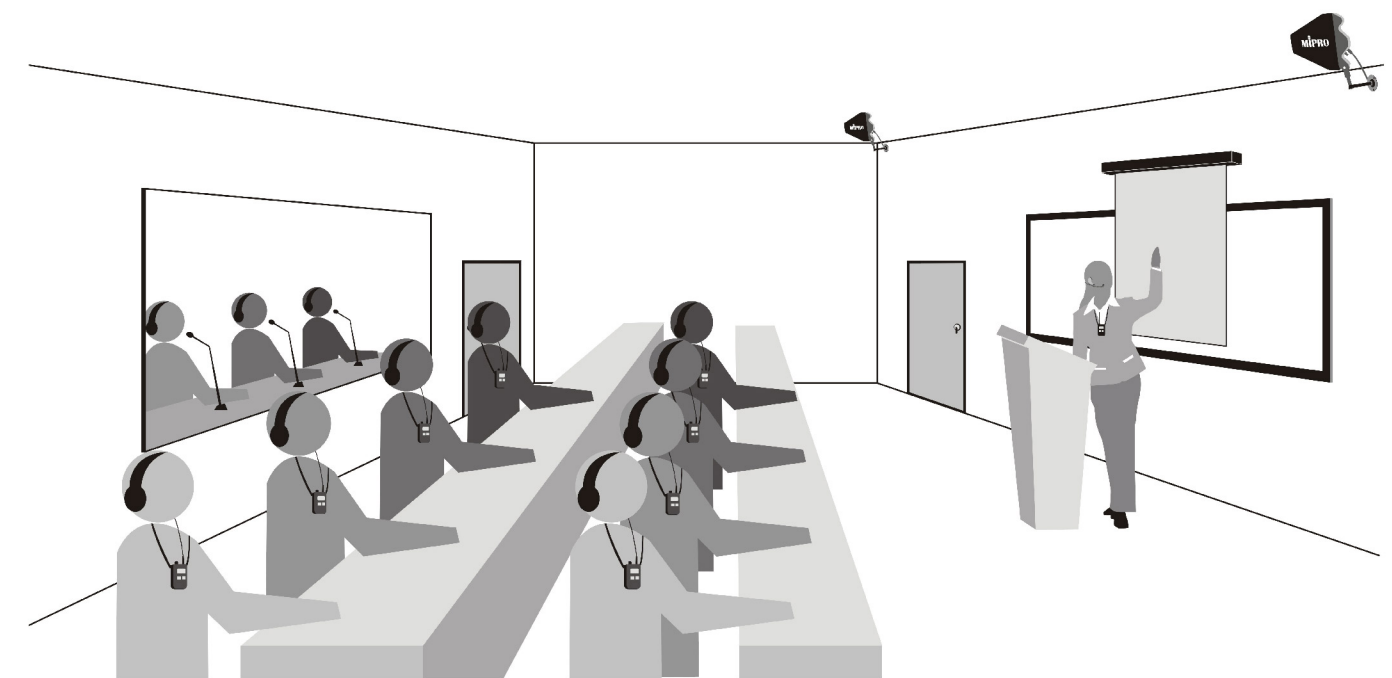


## **MTS-100T** Antenna Systems Applications



### 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.





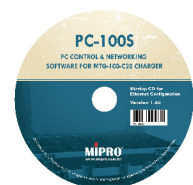
## STORAGE & CHARGER CARRY CASES

### 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

### For MTG-100R portable receiver

#### MU-101

Headworn  
Microphone



#### MM-10

Mini-gooseneck  
Microphone



#### 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)