



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 lanyard.

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

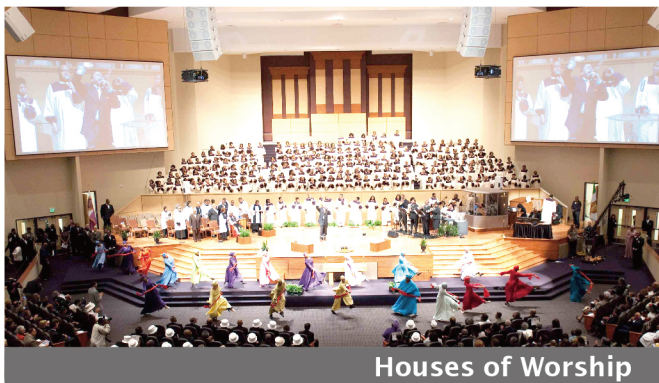
ISM bands in EU 863~865 & USA 926~928 MHz require no user licensing; thus, no worries about charging groups and channels when operating in multiple countries.



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**

3.5mm Mini-Jack
Secured screw-lock for microphone or line input

Programmable Parameters
Channel, Sensitivity level, Audio Input Source, RF Output Power

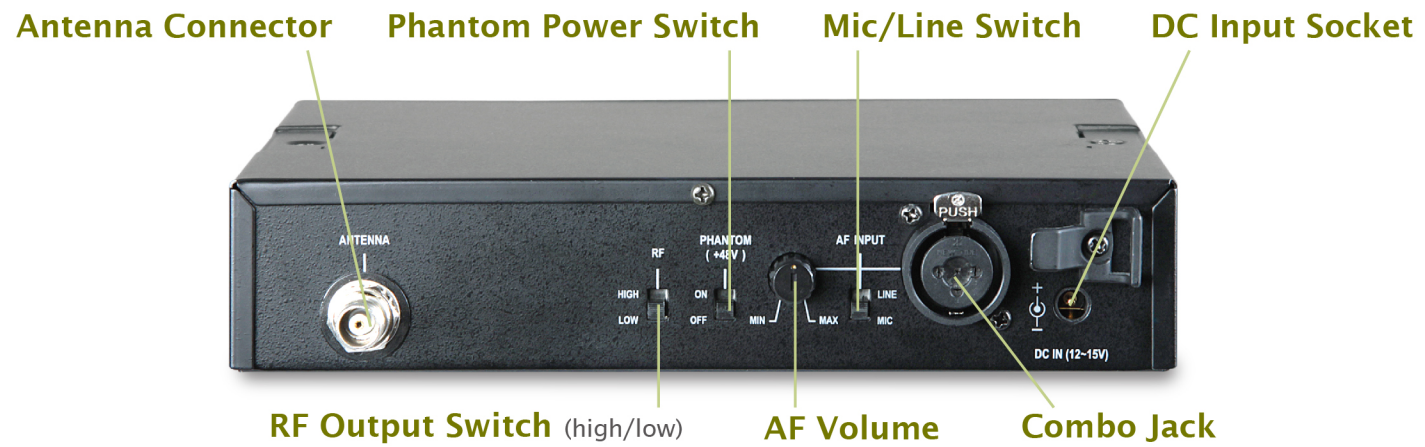
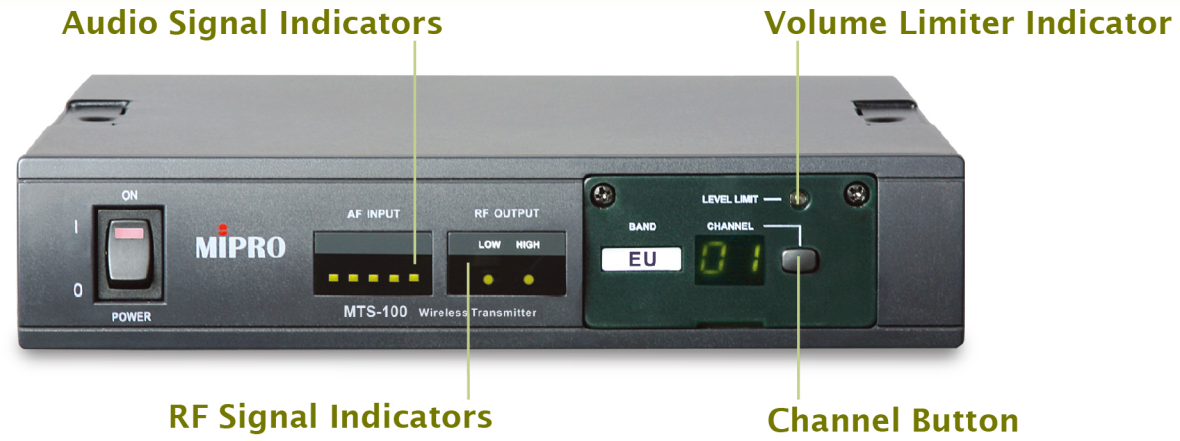
Rechargeable Battery
Up to 12-hour life per charge or **Disposable Batteries**

ACT Sync Port
ACT™ syncs the transmitter and receiver frequency automatically

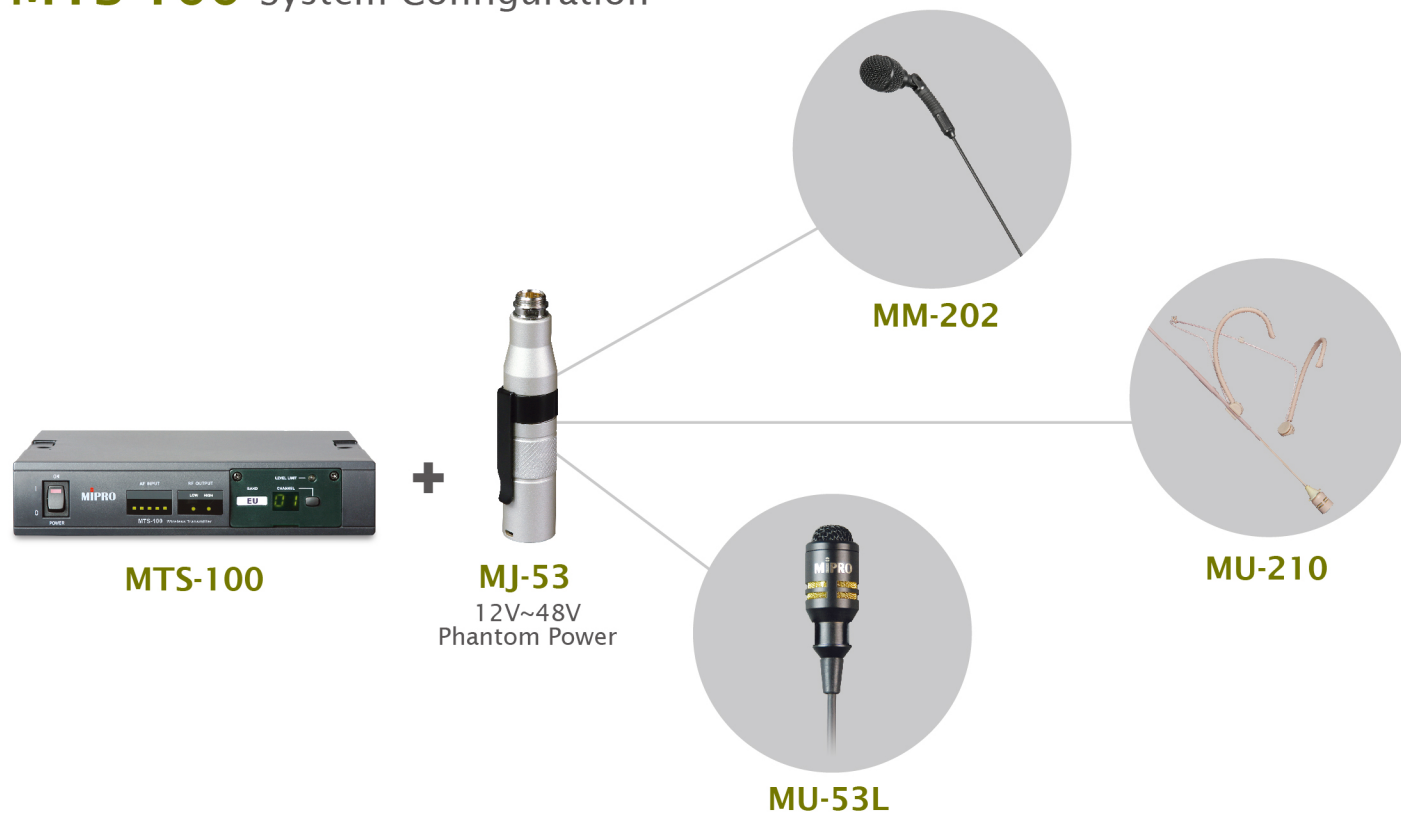
LCD Screen
Channel, battery status, RF & audio signals, gains level & RF power



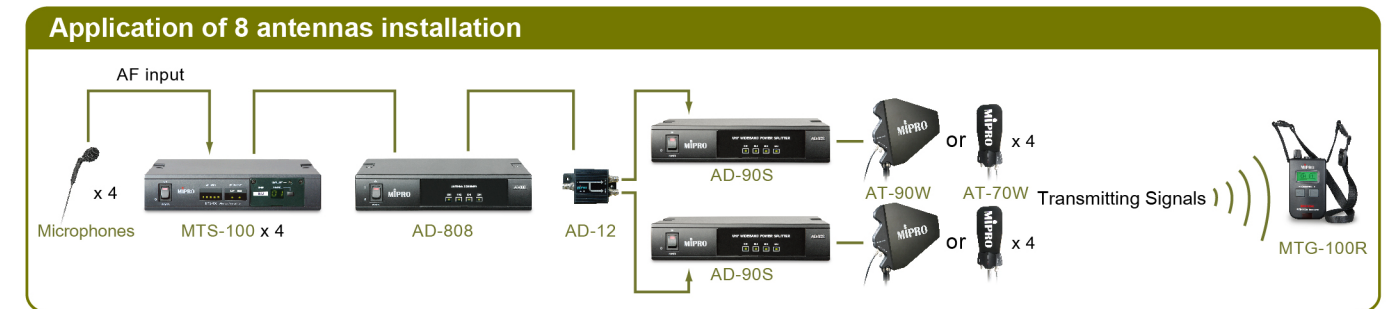
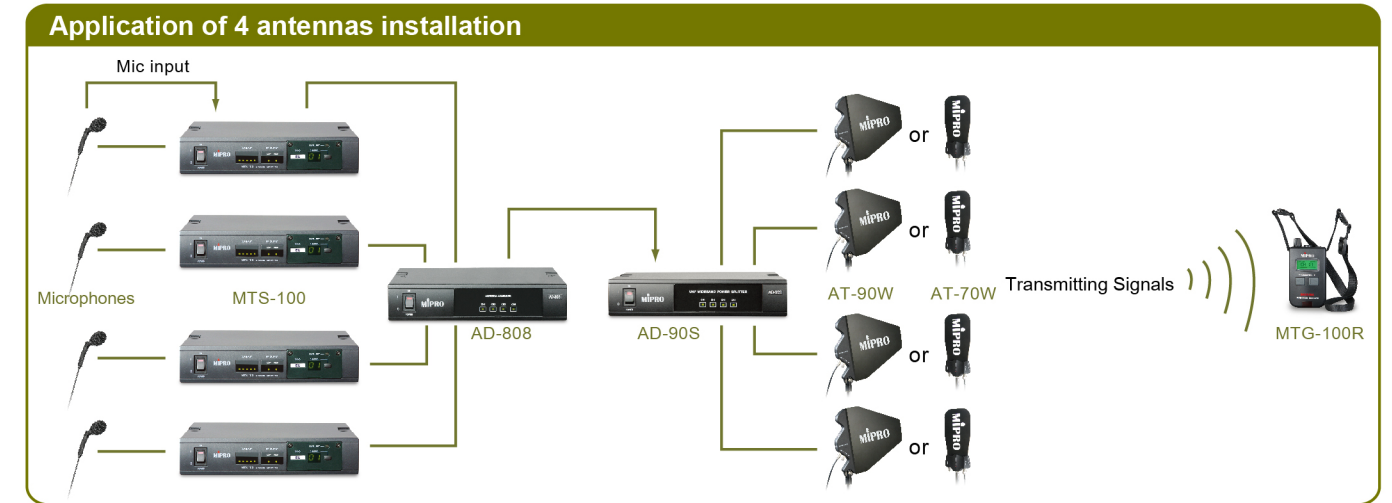
Digital Stationary Transmitter **MTS-100**



MTS-100 System Configuration

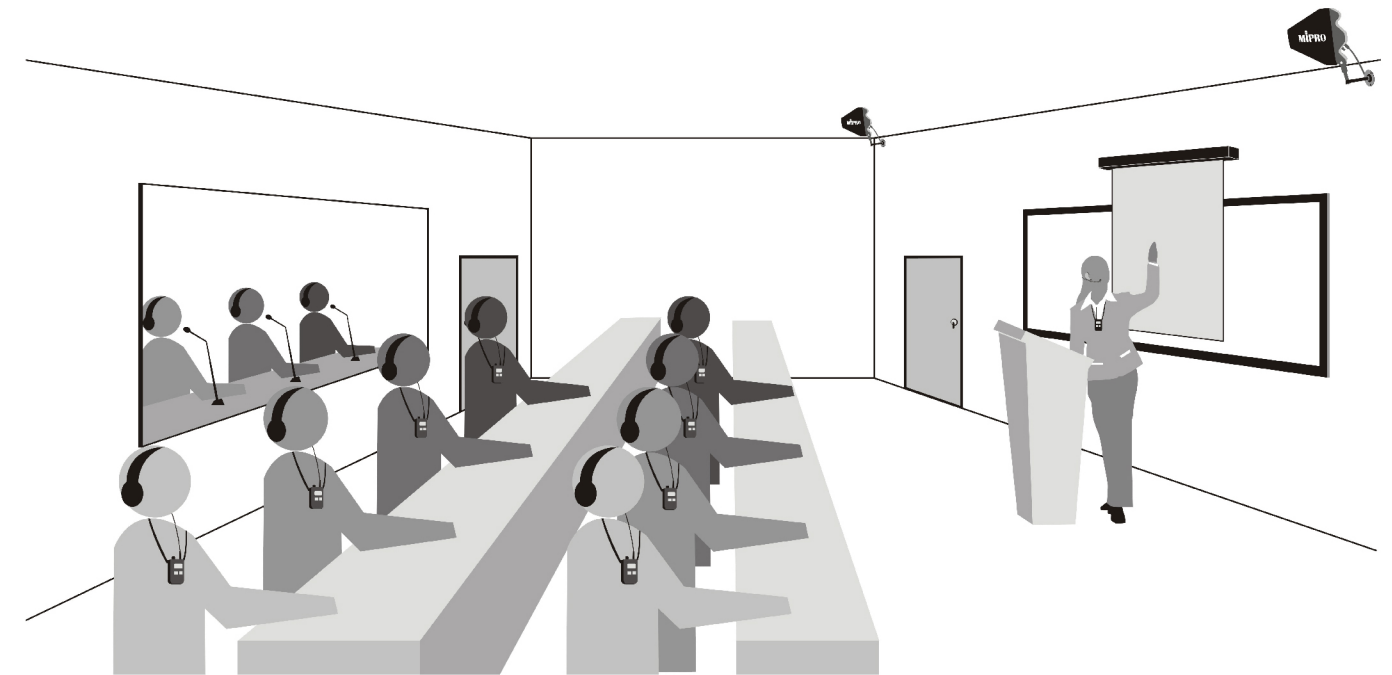


MTS-100 Antenna Systems Applications



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-101P

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 Time	>12 hours	>12 hours	N/A
Automatic Shut-Off Time	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-101P
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 mini jack screw-lock	3.5mm mini jack screw-lock
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	100 mW
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)