

Digital Wireless Tour Guide System

GUIDED TOURS
ASSISTIVE LISTENING
LANGUAGE INTERPRETATION





Conference

MTG-100 is an innovative pocket-sized digital wireless tour guide / simultaneous 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 tour guide systems or mobile phones as it weights only 65 g / 2.3 oz (battery included), it can easily be held with one hand, fit in a pocket or worn by a neck lanyards.



Employee Training

Secured Digital Transmission, Crystal Clear Audio

Digitally encrypted technology enables secure audio transmission, preventing unauthorized listening. 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.



Houses of Worship

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

Optimum Reception

Industry's only true diversity technology for up to 100 m / 330 ft (line-of-sight) of reliable reception quality.

Rechargeable Battery

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

16 User Selectable Channels; 4 Compatible Systems

Maximum flexibility and ensures several different tours or groups 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.

IDEAL APPLICATIONS

Guided Tours

- Factories
- Museums
- Tourist Attractions
- Zoos
- Cruise Ships
- Buses / Vans
- School Field
- Gardens
- Employee & Dealers Training
- Hotels and Resorts
- Special Events



Assistive Listening

- Educational Institutions
- Corporate Meetings
- Training and Seminars
- Theaters
- Governmental Agencies
- Houses of Worship
- Conventions
- Auditoriums

Language Interpretation

- Courtrooms
- Educational Institutions
- Conferences or Conventions
- Houses of Worship
- Medical Facilities
- Employee & Dealers Training
- Hotels & Resorts



Factory Tours



Courtroom



Guided Tours

Digital Portable Receiver **MTG-100R**



Volume control
allows 1-20 levels
volume adjustment

3.5 mm mini jack
for earphones or
headphones

LCD display shows
channel, battery &
charging status and
audio & RF signals

Channel button
for switching 16
factory preset
channels

Built in long-lasting
lithium polymer
rechargeable battery
Up to 14-hour battery
life per charge

ACT sync port
ACT™ syncs the
transmitter and
receiver frequency
automatically

Digital Portable Transmitter **MTG-100T**



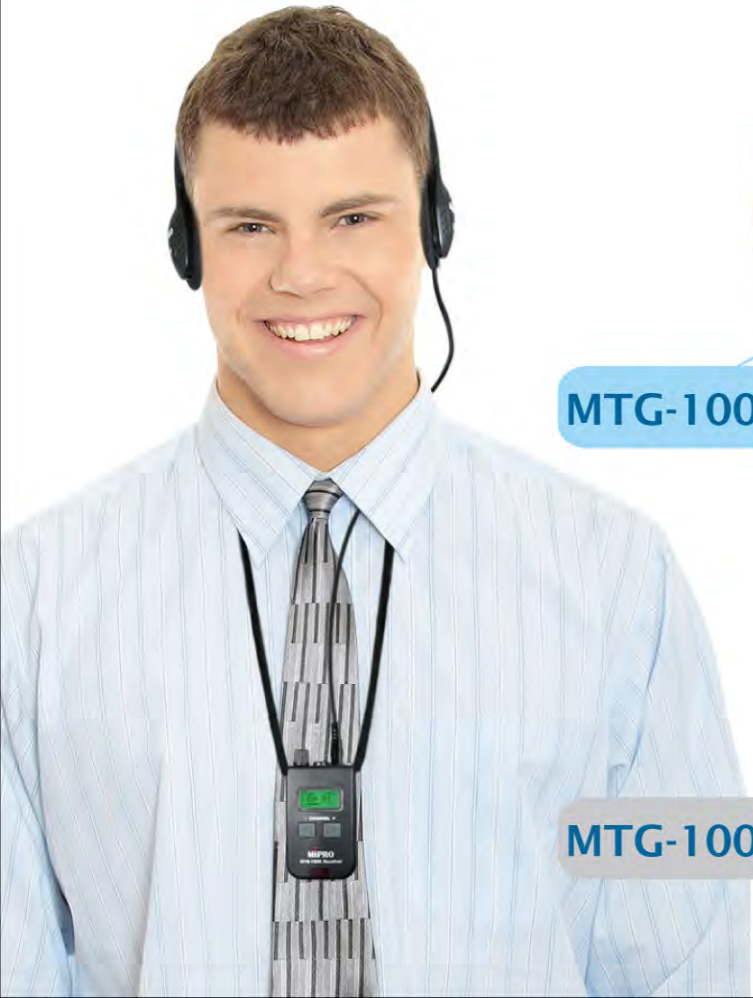
LCD display shows
channel, battery status, RF
& audio signals, gains
level & RF power

**3.5 mm screw-lock
jack** socket for mic or
line input

**Programmable Mode
& Set** button: Channel,
Frequency, Sensitivity
Level, Audio Input
Source, RF Output Power

Built in long-lasting
lithium polymer
rechargeable battery
Up to 14-hour battery
life per charge

ACT sync port ACT™
syncs the transmitter
and receiver frequency
automatically



MTG-100R

MTG-100T

Digital Stationary Transmitter **MTS-100T**

On the rear panel are **High/Low power RF outputs**, RF output switch (high/low), **AF level switch** (3 levels), **Combo jack**, Mic/Line switch



Audio signal indicators

Volume limiter indicator

RF signal indicators

Channel button 16 preset channels

STORAGE & CHARGER CARRY CASE

MTG-100C-12



MTG-100C-28



PC Interface (for MTG-100C-28 only)

Ethernet network interface & ACT-BUS static IP set up interface.



ACCESSORIES

MM-10

Mini-gooseneck
Microphone



For MTG-100T portable transmitter

MU-101

Headworn
Microphone



E-10S

Stereo
Earphones



For MTG-100R portable receiver

E-20S

Stereo
Headphones



SPECIFICATIONS

Receivers & Transmitters	MTG-100R	MTG-100T	MTS-100T
Frequency Range	794~928MHz	794~928MHz	794~928MHz
Oscillation Mode	PLL Synthesized	PLL Synthesized	PLL Synthesized
Preset Channels	16	16	16
Switching Bandwidth	2MHz	2MHz	2MHz
Channel Grid	125KHz	125KHz	125KHz
RF Output Power	N/A	<10mW (Low / Mid / High, switchable)	<10mW (Low) <50mW (High)
Sensitivity	Approx. -90dBm	N/A	N/A
Operating Range	Approx. 100 meters (line-of-sight)		>100 meters (Hi Power)
Frequency Response	50Hz~10KHz	50Hz~10KHz	50Hz~10KHz
AF Input Level	N/A	<1V RMS (Line In)	<1V RMS
Power Supply	Built-in high capacity lithium polymer rechargeable battery		12~15V DC
Current Consumption	N/A	N/A	Approx. 510mA@12V DC
Operating Hours	>14 hours	>12 hours	N/A
Automatic Shut-Off Timer	10 minutes~42 hours (programmable)		N/A
Dimensions(W×H×D)	45 × 84 × 21 mm / 1.8 × 3.3 × 0.8 "		210 × 44 × 206 mm / 8.3 × 1.7 × 8.1 "
Weight	65 g / 2.3 oz (battery included)	67 g / 2.4 oz (battery included)	Approx. 1.1 kg / 2.4 lbs

Storage & Charger Carry Case	MTG-100C-12	MTG-100C-28
Charge Systems	12 (10 receivers and 2 transmitters)	28 (24 receivers and 4 transmitters)
Charging Time	< 4 hours	< 4 hours
Max. Power Consumption	26W	80W
Dimensions(W×H×D)	403 × 133 × 306 mm / 15.9 × 5.2 × 12 "	530 × 190 × 330 mm / 20.9 × 7.5 × 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 Capsules	MM-10	MU-101
Capsule Module	4.5mmΦ omni-directional subminiature condenser microphone	10mmΦ uni-directional miniature condenser microphone
Frequency Response	40Hz~20KHz	50Hz~18KHz
Maximum SPL	135dB (Typical, 1% T.H.D.)	135dB (Typical, 1% T.H.D.)
Sensitivity	-49dBV±3dB at 1 KHz (0dB=1V / Pa)	-49dBV±3dB at 1 KHz (0dB=1V / Pa)
Plug	3.5mm Stereo phone jack plug	3.5mm Stereo phone jack plug
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

Earphones	E-10S	E-20S
Driver Unit	10mmΦ	30mmΦ
Frequency Response	20Hz~15KHz	20Hz~20KHz
Sensitivity	103dB±3dB at 1mW	105dB±3dB at 1mW
Max. Input Power	20mW	100mW
Impedance	16 Ω at 1KHz 1mW	24 Ω at 1KHz 1mW
Connector	3.5mm Stereo phone jack plug	3.5mm Stereo phone jack plug
Cable Length	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. 20 g / 0.7 oz (cable included)	Approx. 80 g / 2.8 oz (cable included)



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