



MTG-100

Digital Wireless Tour Guide System

GUIDED TOURS
ASSISTIVE LISTENING
LANGUAGE INTERPRETATION



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Conference

MTG-100 is an innovative pocket-sized digital wireless tour guide / 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 (rechargeable battery included), it can easily be held with one hand, fit in a pocket or worn by a neck lanyard.



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 & AA Battery Models

Built-in rechargeable lithium battery or 2 AA batteries.

16 User Selectable Channels

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/MTG-100Ra**

Volume Control
1~20 levels

3.5mm Mini-Jack
earphones or headphones

LCD Screen
Channel, battery & charging status, audio & RF signals

Channel Buttons
16 preset channels; Channel lock prevents changes

Rechargeable Battery
Up to 14-hour life per charge or **Disposable Batteries**

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



Rear View



MTG-100R

MTG-100Ra



E-5S



E-10S



E-20S

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

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

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



Rear View



MTG-100T

MTG-100Ta

Handheld Transmitter **MTG-100Ha**



MU-53HNP



MU-23P



MU-101P



MM-202P



MM-10

MTG-100R

MTG-100T

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 / MTG-100Ta portable transmitter

MM-10

Omni-directional
Mini-gooseneck Mic.



MM-202P

Uni-directional
Mini-gooseneck Mic.



MU-101P

Uni-directional
Headworn Mic.



MU-23P

Omni-directional
Headworn Mic.



MU-53HNP

Uni-directional
Headworn Mic.



For MTG-100R / MTG-100Ra portable receiver

E-5S

Single Earphone



E-10S

Stereo Earphones



E-20S

Stereo Headphones



SPECIFICATIONS

Receiver & Transmitter	MTG-100R/MTG-100Ra	MTG-100T/MTG-100Ta	MTG-100Ha
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)	
Sensitivity	Approx. -90 dBm	N/A	
Operating Range	Up to 100 meters (330 feet) line-of-sight		
Frequency Response	50 Hz~10 kHz	50 Hz~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		2 x AA batteries
Operating Time	>12 hours	>12 hours	>12 hours
Automatic Shut-Off Time	10 minutes~42 hours (programmable)	6 hours	N/A Mute button
Dimensions	MTG-100R/MTG-100T:45×84×21mm/1.8×3.3×0.8 "(W×H×D) MTG-100Ra/MTG-100Ta:45×84×28mm/1.8×3.3×1.1 "(W×H×D)		50× 258 mm / 2 × 10.1 " (Ø × L)
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. 250 g / 8.8 oz, excluding AA batteries

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 (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	MM-10	MM-202P	MU-101P	MU-23P	MU-53HNP
Capsule Module	4.5mmØ omni-directional condenser mic.	10mmØ uni-directional condenser mic.	10mmØ uni-directional condenser mic.	3mmØ omni-directional condenser mic.	10mmØ uni-directional condenser mic.
Frequency Response	40Hz~20kHz	50Hz~18kHz	50Hz~18kHz	40Hz~20kHz	50Hz~18kHz
Maximum SPL	135dB (Typical, 1% T.H.D.)	136 dB (Typical, 1% T.H.D.)	135dB (Typical, 1% T.H.D.)	138dB (Typical, 1% T.H.D.)	136 dB (Typical, 1% T.H.D.)
Sensitivity	-49dBV±3dB at 1 kHz (0dB=1V / Pa)	-46dBV±3dB at 1 kHz (0dB=1V / Pa)	-49dBV±3dB at 1 kHz (0dB=1V / Pa)	-56dBV±3dB/Pa (0dB=1V / Pa)	-46dBV±3dBV/Pa (0dB=1V / Pa)
Plug	3.5mm mini jack screw-lock	3.5mm mini jack screw-lock	3.5mm mini jack screw-lock	3.5mm mini jack screw-lock	3.5mm mini jack screw-lock
Length	11 cm / 4.3"	13.6 cm / 5.4"	150 cm / 59.1" (cable only)	150 cm / 59.1" (cable only)	150 cm / 59.1" (cable only)
Weight	Approx. 8 g / 0.3 oz	Approx. 22 g / 0.8 oz	Approx. 24 g / 0.8 oz	Approx. 22 g / 0.8 oz	Approx. 30 g / 1.1 oz

Earphone	E-5S	E-10S	E-20S
Driver Unit	24mmØ	10mmØ	30mmØ
Frequency Response	100Hz~2kHz	20Hz~15kHz	20Hz~20kHz
Sensitivity	108dB±3dB at 1mW	103dB±3dB at 1mW	105dB±3dB at 1mW
Max. Input Power	100mW	20mW	100mW
Impedance	32±15% Ω at 1kHz 1mW	16 Ω at 1kHz 1mW	24 Ω at 1kHz 1mW
Plug	3.5mm stereo mini jack	3.5mm stereo mini jack	3.5mm stereo mini jack
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)