

# **WIRELESS GUIDE SYSTEM**

Ideal, easy-to-use system for on-site tours in noisy environments, simultaneous interpretation and extended listening coverage in difficult situations.



# **System Features**

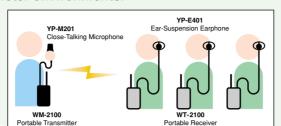
- Transmits and receives on five channels on the 470MHz frequency band.
- The portable transmitter provides clear coverage over a 30 meter distance while the desk-top transmitter extends the distance to 70 meters.
- Input sensitivity control with six settings on the desk-top transmitter and two-step mic input sensitivity control on the portable transmitter for ideal transmission without any signal degradation.
- Desk-top transmitter transmit on/off operation controllable with external equipment.
- Battery indicator provides at-a-glimpse battery level status.
- Four different microphone options paging, tie-clip, close-talking, and headset microphones to meet specific requirements.
- Paging microphone and close-talking microphone equipped with press-to-talk feature to reject ambient noise.
- Desk-top transmitter can be connected to external PA equipment for extending coverage area.



# **System Applications**

## **On-site Tours**

Allows on-the-spot guidance and explanation to be easily provided. Ideal when touring noisy environments such as factories, plants and other industrial sites. Also useful for guided tours of museums and other quieter environments.





#### Guide $\times$ 1/ Listener $\times$ 10

 Portable Transmitter
 WM-2100 × 1

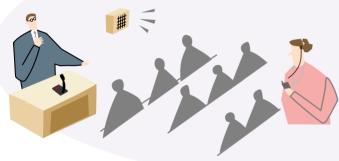
 Close-Talking Microphone
 YP-M201 × 1

 Portable Receiver
 WT-2100 × 10

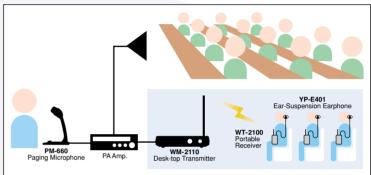
 Ear-Suspension Earphone
 YP-E401 × 10

# **Listening-assistance**

Useful when circumstances require listeners to be seated away from an area covered by sound reinforcement such as a PA. Also effective for helping hard-of-hearing listeners.



TOA TS-700 Series Conference System



### $Presenter \times 1/\,Listener \times 10$

## **Simultaneous Interpretation**



Important tool for use in simultaneous interpreting situations with 5-channel capabilities allowing 5 different languages to be handled simultaneously.

#### Interpreter $\times$ 3/ Listener $\times$ 30

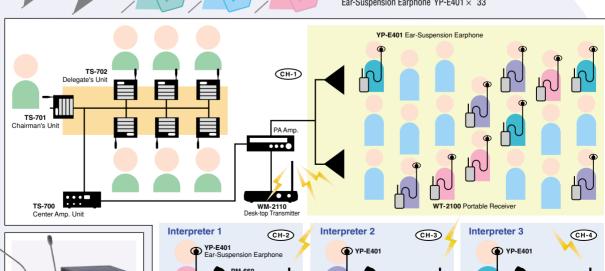
 Desk-top Transmitter
 WM-2110 × 4

 Paging Microphone
 PM-660 × 3

 Portable Receiver
 WT-2100 × 33

 Ear-Suspension Earphone
 YP-E401 × 33

WT-2100



WM-2110

WT-2100 Portable Receiver

#### **SPECIFICATIONS**

WM-2100 Portable Transmitter	
Power Requirement	1.5 V DC (Battery)
Modulation	Frequency modulation
Transmitting Frequencies	470 MHz band (5 ch) (470.075, 470.150, 470.375, 470.625, 470.725 MHz)
RF Carrier Power	2 mW
Oscillator	PLL synthesizer
Frequency Response	200 - 5,000 Hz (Portable transmitter to Portable receiver)
Pre-emphasis	50 μs
Input Level	-50 dB* (sensitivity Hi)/-44 dB* (sensitivity Low)
Battery Life	18 hours (alkaline)
Battery	LR6 (1.5 V) × 1
Operation Temperature	-10°C to +40°C
Finish	Resin, dark gray
Dimensions	62 (W) × 163.6 (H) × 32.5 (D) mm
Weight	115 g (battery included)
Accessory	Neck strap···1

WM-2110 Desk-Top Transmitter

\*0 dB = 0.775 V

Power Requirement 230 V AC, 50 Hz Power Consumption 3 W Modulation Frequency modulation Transmitting Frequencies 470 MHz band (5 ch) (470.075, 470.150, 470.375, 470.625, 470.725 MHz) RF Carrier Power 5 mW Oscillator PLL synthesizer Frequency Response 150 - 6,000 Hz (Desk-top transmitter to Portable receiver) Pre-emphasis

Standard input: -54 dB\*/-60 dB\*/-66 dB\* (Mic) Input Level -12 dB\*/-18 dB\*/-24 dB\* (Line) Maximum input: -30 dB\*/-36 dB\*/-42 dB\* (Mic) (selectable) +12 dB\*/+6 dB\*/0 dB\* (Line)

Mic/Line selection, 600  $\Omega$ , unbalanced, phone jack Make contact input: Release voltage: 2 V DC

short-circuit current: 0.2 mA loop resistance: under 100  $\Omega$ Remote control mode: Transmit radio signal when at make

Operation Temperature Finish ABS resin, dark gray 140 (W) × 31 (H) × 119.5 (D) mm Dimensions

Weight 270 g

AC-DC adapter (1.8 m)···1, Screw driver···1, 3-pole phone plug cord (2 m)···1 Accessory

\*0 dB = 1 V

Remote Input

YP-M101 Tie-Clip Microphone

Type Electret condenser type Directivity Unidirectional Sensitivity -46 dB (0 dB = 1 V/Pa, 1 kHz, load: 2 kΩ) Maximum Input Level 115 dB SPL Terminal ø3.5 mm monaural plug Finish Dark gray Weight 20 g (cable included) Accessory

YP-M201 Close-talking Microphone

Flectret condenser type Type Directivity Unidirectional

Sensitivity -57 dB (0 dB = 1 V/Pa, 1 kHz, load: 2 kΩ)

Maximum Input Level

Switch Press to talk switch (can be locked)

Terminal ø3.5 mm stereo plug Finish Weight 20 g (cable included)

YP-M301 Headset Microphone

Electret condenser type Directivity Unidirectional

Sensitivity -41 dB (0 dB = 1 V/Pa, 1 kHz, load: 2 kΩ)

117 dB SPL Maximum Input Level ø3.5 mm monaural plug Terminal Finish Headband: ABS resin, black

Weight

Storage case...1, Windscreen...2 Accessory

WT-2100 Portable Receiver

Power Source

Receiving Frequencies 470 MHz band (5 ch) (470.075, 470.150, 470.375, 470.625, 470.725 MHz)

1.5 V DC (Battery)

Double super-heterodyne Receiving System

Better than 25 dB Receiving Sensitivity S/N ratio (7 dBµVEMF input, ±1.7kHz deviation)

Frequency Response 200 - 5,000 Hz (Portable transmitter to Portable receiver) 150 – 6,000 Hz (Desk-top transmitter to Portable receiver)

De-emphasis

4 mW (16Ω load, 10% distortion) Output Level

Battery Life 18 hours (alkaline) Battery LB6 (1.5 V) x 1 Operation Temperature -10°C to +40°C Resin, dark silve Dimensions 62 (W) × 163.6 (H) × 32.5 (D) mm

Weight 112 g (battery included)

Accessory Neck strap…1

\*When using an earphone not made by TOA, use a one with a 3.5mm-diameter

plug and impedance of over  $16\Omega$ .

YP-E401 Ear-Suspension Earphone

Dynamic type Impedance 16 Ω Frequency Response 300 - 15,000 Hz Rated Sensitivity 88 dB (0 dB= 2 X 10<sup>-5</sup> Pa, 1 kHz, 10mW) Input Max. 50 mW ø3.5 mm monaural plug

Terminal Finish Black

Weight 17 g Accessory Ear-pad...1, Suspension ring\*...2

\*Three different sizes are available for the suspension ring. L:  $68 \times 47$  mm M:  $64 \times 45$  mm S:  $60 \times 43$  mm

PM-660 Paging Microphone

Dynamic (moving coil) Polar Pattern Cardioid Rate Impedance 600 Ω, unbalanced -58 dB (1 kHz, 0 dB = 1 V/Pa) Output Level Frequency Response 100 Hz - 10.000 Hz Output ø4.5, 2-conductor shielded cable (2.5 m) with phone plug Switch 1 push-to-talk switch, 1 locking lever, Short-off type Remote Control Less than 500 mA at 30 V DC Microphone head: Zinc plated steel wire, Baked paint, Grav Finish Main unit: ABS resin, Gray

Dimensions 100 (W) × 215 (H) × 150 (D) mm 440 g (cord excluded) Weight

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