



# UHF Wireless Microphone Systems



Smiles  
for the  
Public

Wireless Convenience with Newly Enhanced  
Versatility, Reliability and Cost Efficiency

# Versatile High-Performance Microphone Systems

Strive to bring you high-performance, mobility and convenience. TOA is proud to introduce the widened range of 5000 Series wireless microphone system. There is definitely one that suits your need.

## Product Features

- All UHF wireless microphone tuners employ Phase Locked Loop (PLL) synthesis for remarkably stable performance. Reliable wide-area coverage permitting use of up to 16 microphones within a radius of up to 120 meters from the YW-4500 UHF wireless antenna
- Powered by rechargeable batteries which enable up to 13 hours of continuous usage before recharging
- Extensive range of microphone selections to support every application need
- A selection of three high-efficiency battery chargers for 2, 6, or 12 batteries and a single-battery microphone add further flexibility to the product line-up
- Up to 64 selectable channels for WT-5800 & WT-5805, Up to 16 selectable channels for WT-5810 & WT-4820 wireless tuner.
- TOA true diversity (WT-5800) and space diversity (WT-5805) circuitry, a usable frequencies scanning and vacant channel search function.



**Wireless Microphone (Press-Talk type)**  
WM-5420



- Dynamic microphone unit: Unidirectional
- Round shape and handling hook prevents being dropped
- Shock absorbent structure
- Hands-free clip allows clipping onto chest pocket
- Lock of Talk switch available for extended broadcasting
- Pocket microphone mode and remote mode
- Built-in chime

**Handheld Vocal Wireless Microphone**  
WM-5270



- Dynamic microphone unit: Unidirectional
- 64 selectable channels
- Maximum input level: 142 dB SPL
- Rolling stopper prevents the microphone from rolling
- Single AA battery operation for more compact and lightweight body
- Built-in antenna

**Handheld Vocal Wireless Microphone**  
WM-5265



- Dynamic microphone unit: Unidirectional
- 64 selectable channels
- Maximum input level: 132 dB SPL
- ON/OFF switch prevents the microphone from rolling
- WB-2000 rechargeable battery or single AA battery operation for compact and lightweight body
- Built-in antenna

**Handheld Speech Wireless Microphone**  
WM-5225



- Electret condenser microphone unit: Unidirectional
- 64 selectable channels
- Maximum input level: 126 dB SPL
- ON/OFF switch prevents the microphone from rolling
- WB-2000 rechargeable battery or single AA battery operation for compact and lightweight body
- Built-in antenna

**Wireless Transmitter**  
WM-5325



- 64 selectable channels
- Maximum input level: -14 dB to -29 dB
- Built-in circuitry minimizes ambient noise effects
- WB-2000 rechargeable battery or single AA battery operation for compact and lightweight body
- Connector for 3.5 mini-plugs
- Built-in antenna

**Unidirectional Lavalier Microphone**  
YP-M5300



- Unidirectional electret condenser microphone element
- Maximum input level: 120 dB SPL
- Connector for 3.5 mini-plug
- Weight: 20g

**Omnidirectional Lavalier Microphone**  
YP-M5310



- Omnidirectional electret condenser microphone element
- Maximum input level: 110 dB SPL
- Connector for 3.5 mini-plug
- Weight: 20g

**Headset Microphone**  
WH-4000H



- Unidirectional electret condenser microphone element
- Maximum input level: 120 dB SPL
- Connector for 3.5 mini-plug
- Secure and comfortable fitting headset
- Weight: 50g

**Headset (Aerobics) Microphone**  
WH-4000A



- Unidirectional electret condenser microphone element
- Maximum input level: 120 dB SPL
- Connector for 3.5 mini-plug
- Extra-secure and comfortable fitting headset
- Weight: 50g

**Ear-Hook Microphone**  
YP-M5000E



- Omnidirectional electret condenser microphone element
- Maximum input level: 115 dB SPL
- Terminal:  $\phi$ 3.5mm Stereo plug
- Weight: 14g

**Wireless Portable Receiver**  
WT-5100



- Compatible to commercial earphone ( $\phi$ 3.5mm, impedance: over 16 $\Omega$ )
- Allow up to 16 different frequencies to be received by selection
- An optimized PLL-synthesizer minimizes the oscillation frequency drift resulting from the ambient temperature or voltage fluctuation
- WB-2000 rechargeable battery or single AA battery operation for compact and lightweight body
- Built-in antenna
- \* When used with the YP-E5000 Assist Earphone, improves audibility for hearing impaired users by raising the frequency response above the standard level.

**Ear-Suspension Earphone**  
YP-E401



- Dynamic type
- Frequency response: 300 Hz - 15k Hz
- Terminal:  $\phi$ 3.5mm monaural plug (16 $\Omega$ )
- Suspension ring comes in three different sizes

**Headset Microphone**  
YP-M5000H



- Omnidirectional electret condenser microphone element
- Maximum input level: 115 dB SPL
- Terminal:  $\phi$ 3.5mm Stereo plug
- Weight: 21g

**Assist Earphone**  
YP-E5000



- Dynamic type
- Frequency response: 300 Hz - 15k Hz
- Terminal:  $\phi$ 3.5mm monaural plug (16 $\Omega$ )
- Suspension ring comes in three different sizes



### Wireless Tuner WT-5800



- Phase Locked Loop (PLL) synthesis operation
- 64 selectable channels
- True diversity technology
- Double super-heterodyne receiving system
- Two-line LCD display
- Auto mixing input function
- Squelch function (carrier, noise, tone)
- Usable frequencies scanning and vacant channel search function
- Compact half-rack size body
- 6 points audio level meter for microphone sensitivity adjustment
- Compander circuitry for minimizing ambient noise
- Antenna distribution output
- Whip antenna x 2
- Low-battery indicator (wireless microphone's battery voltage becomes low)

### Wireless Tuner WT-5805



- Phase Locked Loop (PLL) synthesis operation
- 64 selectable channels
- TOA space diversity technology
- Double super-heterodyne receiving system
- Two-line LCD display
- Auto mixing input function
- Squelch function (carrier, noise, tone)
- Usable frequencies scanning and vacant channel search function
- Compact half-rack size body
- 6 points audio level meter for microphone sensitivity adjustment
- Compander circuitry for minimizing ambient noise
- Whip antenna x 2
- Low-battery indicator (wireless microphone's battery voltage becomes low)

### Wireless Tuner WT-5810



- Phase Locked Loop (PLL) synthesis operation
- 16 selectable channel frequencies
- TOA space diversity technology
- Double super-heterodyne receiving system
- Auto mixing input function
- Squelch function (carrier, noise, tone)
- Usable frequencies scanning and vacant channel search function
- Compact portable design
- Compander circuitry for minimizing ambient noise
- Rod antenna x 2
- Balanced output (XLR connector) and phone jack output
- Low-battery indicator (wireless microphone's battery voltage becomes low)

### 2-Channel Wireless Tuner WT-4820



- 16 selectable channel frequencies
- Antenna cascade output function (parallel connection possible for linking two WT-4820 units)
- TOA space diversity technology
- Auto mixing input function
- Tuner unit connections accessible from the front (even if rack mounted, the front panel is easily opened)
- Mix output/tuner 1 output (selectable); tuner 2 has 2 outputs
- Whip antenna x 2
- Compact half-rack size body
- External antenna input

**Power/Antenna Distributor**  
WD-5800



- 2 antenna inputs and 4 distributed outputs
- 2 inputs per antenna which are mixed for output (when 2 antenna are set up in a large room)
- Supplies power to antenna
- Compact 19" rack-mount design

**UHF Wireless Tuner Unit**  
WTU-4800



- PLL synthesis double super-heterodyne diversity tuner module
- Squelch function mutes output to reduce noise
- Includes compander noise reduction to cut ambient RF noise

**Rechargeable Battery**  
WB-2000-2



- AA nickel-metal hydride (Ni-MH) rechargeable battery
- For Wireless Microphones, Wireless Transmitter and Portable Receiver

**Battery Charger**  
BC-5000-12



- Number of wireless microphones to be charged simultaneously: 12
- Fully charges within 3 hours

**Battery Charger**  
BC-5000-6



- Number of wireless microphones to be charged simultaneously: 6
- Fully charges within 3 hours

**Battery Charger**  
BC-5000-2



- Number of wireless microphones to be charged simultaneously: 2
- Fully charges within 3 hours

**AC Adapter**  
AD-5000-6 / AD-5000-2



- AD-5000-6: For BC-5000-12 and BC-5000-6 battery chargers
- AD-5000-2: For BC-5000-2 battery charger

**UHF Wireless Antenna**  
YW-4500



- UHF wireless dipole indoor antenna
- Wall mounted
- Power supplied by tuner unit (WT-5800 / WT-5805 / WT-4820) through coaxial cable
- Built-in RF signal booster
- Attenuation switch helps minimize noise and any interference

**Options**

**Waist Pouch**  
WH-4000P



**Windscreens**  
WH-4000S



- Contains 10 pieces

**Earphone Pad**  
YP-E401PAD01



- Contains 100 pieces

**Rack Mount Bracket Kit**  
MB-WT3



- For rack mounting one WT-5800, WT-5805 and/or WT-4820 unit

**Rack Mount Bracket Kit**  
MB-WT4



- For rack mounting two WT-5800, WT-5805 and/or WT-4820 unit

**Rack Mount Bracket**  
MB-15B



- For rack mounting one WD-5800

# Specifications

## Wireless Microphones & Microphones



**WM-5420**



**WM-5270**



**WM-5265**



**WM-5225**

Microphone Element	Dynamic microphone: Cardioid	Dynamic microphone: Unidirectional	Dynamic microphone: Cardioid	Electret condenser microphone: Unidirectional
Frequency Range	636 - 806 MHz, UHF	576 - 865 MHz <sup>*1</sup> , UHF		
Channel Selectable	64 channels <sup>*1</sup>			
Maximum Input Level	132 dB SPL	142 dB SPL	132 dB SPL	126 dB SPL
Battery	LR6 (AA)	LR6 (AA)	LR6 (AA) or WB-2000 (Ni-MH battery)	(AA) or WB-2000 (Ni-MH battery)
Finish	ABS Resin, coating	Metal, Dark Grey	Resin, coating	Resin, coating
Dimensions	74 (W) x 184 (H) x 20 (D) mm	Φ 48 x 244 mm	Φ 50 x 229 mm	Φ 43.6 x 231.5 mm
Weight	105 g (with battery)	340 g (with battery)	205 g (with battery)	180 g (with battery)
Accessories	Clip, Neck strap, Screw driver	Microphone holder (with stand adapter), Storage case, Rolling stopper	Microphone holder (with stand adapter), Storage case, Screw driver	Microphone holder (with stand adapter), Storage case, Screw driver



**YP-M5300**



**YP-M5310**



**WH-4000A**



**WH-4000H**

Microphone Element	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional
Sensitivity	-63 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)	-64 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)	-66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)	-66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)
Frequency Response	100 Hz - 12,000 Hz	100 Hz - 15,000 Hz	-	-
Maximum Input Level	120 dB SPL	110 dB SPL	120 dB SPL	120 dB SPL
Cord Length	1.3 m			
Connector	Φ 3.5 mm mini plug			
Finish	Dark Black	Dark Black	Headband: EVA, black Frame: Stainless, black (Silicon rubber) Gooseneck: Black (shrink tube)	Frame: Stainless, black (Silicon rubber) Gooseneck: Black (shrink tube)
Weight	20 g (cable included)		50 g (cable included)	



**YP-M5000E**



**YP-M5000H**

Microphone Element	Electret condenser microphone: Omnidirectional	
Frequency Response	20 Hz - 20,000 Hz	
Sensitivity	-67 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)	
Maximum Input Level	115 dB SPL, 1 kHz at 1%	
Cord Length	1.3 m	
Connector	Φ 3.5 mm stereo plug	
Finish	Beige color	
Weight	14 g (cable included)	21 g (cable included)

## Wireless Transmitter



**WM-5325**

Microphone Element	-
Frequency Range	576 - 865 MHz <sup>*1</sup> , UHF
Channel Selectable	64 channels <sup>*1</sup>
Maximum Input Level	-14 dB to -29 dB* (Audio level control: Min. to Max.)
Battery	LR6 (AA) or WB-2000 (Ni-MH battery)
Finish	Resin, coating (change other's)
Dimensions	62 (W) x 102.5 (H) x 23 (D) mm
Weight	90 g (with battery)
Accessories	Screw driver, Storage case, Neck Strap
Option	Ni-MH battery: WB-2000

## Portable Receiver



**WT-5100**

Receiving Frequencies	UHF band (16 ch)
Receiving System	Double super-heterodyne
Receiving Sensitivity	Better than 60 dB Signal to Noise ratio (20 dBμV input, ±40 kHz deviation)
Frequency Response	200 Hz - 5 kHz (Portable transmitter to Portable receiver)
Battery	LR6 (AA) or WB-2000 (Ni-MH battery)
Finish	Resin, dark silver
Dimensions	62 (W) x 163.6 (H) x 32.5 (D) mm
Weight	125 g (with battery)
Accessories	Neck Strap x 1
Options	Ni-MH battery: WB-2000, Assist Earphone: YP-E5000, Ear-suspension Earphone: YP-E401

## Wireless Tuners



**WT-5800**

**WT-5805**

**WT-5810**

**WT-4820**

Power Requirement	AC mains (AC Adapter must be used)		
Frequency Range	576 - 865 MHz <sup>*1</sup> , UHF		576 - 865 MHz <sup>*1</sup> , UHF (WTU-4800)
Channel Selectable	64 selectable frequencies		16 channels
Receiving System	Double super-heterodyne		Double super-heterodyne (WTU-4800)
Diversity System	True diversity	Space diversity	Space diversity (WTU-4800)
Mixing Output	MIC: -60 dB <sup>*2</sup> , 600Ω, balanced, XLR-3-31 type connector LINE: -20 dB <sup>*2</sup> , 600Ω, unbalanced, phone jack <sup>*</sup>		-
Mixing Input	-20 dB <sup>*2</sup> , 10kΩ, unbalanced, phone jack		
Antenna	Whip antenna		Rod antenna
Antenna Input	75Ω, BNC, 9 V DC	75Ω, BNC, 9 V DC	-
Antenna Output	75Ω, BNC (Gain 0 dB)	-	-
Receiving Sensitivity	90 dB or more		80 dB or more (WTU-4800)
Squelch Sensitivity	18 - 40 dBμ V variable		18 dBμ V (WTU-4800)
Tone Frequency	32.768 kHz		-
S/N Ratio	110 dB or more (A-weight, unbalanced output)		104 dB or more (A-weight, unbalanced output)
Harmonic Distortion	1% or less (typical)		
Frequency Response	100 Hz - 15,000 Hz, ±3 dB		50 Hz - 18,000 Hz, ±3 dB
Finish	Resin, black		
Dimensions	210 (W) x 44 (H) x 205.1 (D) mm		210 (W) x 44.2 (H) x 181 (D) mm
Weight	700 g	700 g	770 g (without tuner module)

<sup>\*1</sup> The number of channels may differ from country to country.

<sup>\*2</sup> 0 dB = 1V

## Battery Chargers



**BC-5000-12**

**BC-5000-6**

**BC-5000-2**

Power Requirement	12 V DC (optional AC Adapter AD-5000-6 must be used)		12 V DC (optional AC Adapter AD-5000-2 must be used)
Power Consumption	4.4 A	2.2 A	700 mA
Charging Time	Max. 3h		
Number of Wireless Microphone to be Charge simultaneously	12	6	2
Finish	Case: Steel plate, black, paint Microphone receptacle section: ABS resin, black		Case: Steel plate, black, paint Microphone receptacle section: PPE resin, black
Dimensions	390 (W) x 118 (H) x 246 (D) mm	390 (W) x 118 (H) x 131 (D) mm	238 (W) x 105 (H) x 98 (D) mm
Weight	3.4 kg (with mounting adapters)	2 kg (with mounting adapters)	500 g (with mounting adapters)
Accessories	Mounting adapter x 12	Mounting adapter x 6	Mounting adapter x 2

\* Using the mounting adapter allows one each of the WM-5225, WM-5265, WM-5325, WT-5100 to be charged in combination.

## Earphones



**YP-E401**

**YP-E5000**

Type	Dynamic type	
Impedance	16Ω	
Frequency Range	300 Hz - 15 kHz	
Input	Max. 50 mW	
Terminal	Φ 3.5 mm mini plug (3-pole)	Φ 3.5 mm monaural plug
Finish	Black	
Weight	17 g	
Accessories	Ear-pad x 1, Suspension ring x 2	

## UHF Wireless Microphone Sets



### WS-5225



Combination includes:

- WM-5225
- WT-5810

### WS-5265



Combination includes:

- WM-5265
- WT-5810

### WS-5325H



Combination includes:

- WM-5325
- WH-4000H
- WT-5810

### WS-5325U



Combination includes:

- WM-5325
- YP-M5300
- WT-5810

### WS-5325M



Combination includes:

- WM-5325
- YP-M5310
- WT-5810



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