



# UHF Wireless Microphone System

5000 Series



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.



### Handheld Microphone

WM-5270



- Dynamic microphone unit: Unidirectional
- 64 selectable channels
- Rolling stopper prevents the microphone from rolling
- Single AA battery operation for more compact and light weight body
- Built-in antenna

### Handheld Microphone

WM-5265



- Dynamic microphone unit: Unidirectional
- 64 selectable channels
- 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 Microphone

WM-5225



- Electret condenser microphone unit: Unidirectional
- 64 selectable channels
- 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

### Beltpack 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 ø3.5 mini-plugs
- Built-in antenna

### Lavalier Microphone

YP-M5300



- Unidirectional electret condenser microphone element
- Connector for ø3.5 mini-plug

### Lavalier Microphone

YP-M5310



- Omnidirectional electret condenser microphone element
- Connector for ø3.5 mini-plug

### Headworn Microphone

WH-4000H



- Unidirectional electret condenser microphone

### Headworn Microphone

WH-4000A



- Unidirectional electret condenser microphone
- Ideal for sports applications

### Wireless Lavalier Microphone

WM-4300



- Unidirectional electret condenser microphone element
- 64 selectable channels
- Input sensitivity control included
- Built-in circuitry minimizes ambient noise effects
- Highly reliable TA-4 (XLR-type) mini-cannon microphone plug
- Belt clip rotatable 360 degrees

### Wireless Portable Receiver

WT-5100



- Compatible to commercial earphone (ø3.5mm, impedance: over 16 Ω)
- 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: ø3.5mm monaural plug (16 Ω, 2 pole)
- Suspension ring comes in three different sizes

### Assist Earphone

YP-E5000



- Dynamic type
- Frequency response: 300 Hz - 15k Hz
- Terminal: ø3.5mm monaural plug (16 Ω, 3 pole)
- Suspension ring comes in three different sizes



Receiver  
WT-5800



- Up to 64 selectable frequencies (Up to 16 Simultaneous channels)
- Frequency scan function
- Adjustable 7-step squelch function
- Supplied audio mixing input and audio mixing output
- Antenna distribution output
- Two-line LCD display
- Indication of transmitter's battery life
- Half-rack size body

Receiver  
WT-5805



- Up to 64 selectable frequencies (Up to 16 Simultaneous channels)
- Frequency scan function
- Adjustable 7-step squelch function
- Supplied audio mixing input and audio mixing output
- Two-line LCD display
- Indication of transmitter's battery life
- Half-rack size body

Receiver  
WT-5810



- Up to 16 selectable frequencies (Up to 16 Simultaneous channels)
- Frequency scan function
- Adjustable 7-step squelch function
- Supplied audio mixing input and audio mixing output
- Indication of transmitter's battery life
- Compact portable design

Receiver  
WT-4820



- Up to 16 selectable frequencies (Up to 16 simultaneous channels)
- Modular dual channel receiver accepts up to two WTU-4800 Tuner Units
- Supplied audio mixing input and audio mixing output
- Antenna distribution output
- Half-rack size body

**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

**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
- Receiving frequency : 576 - 865 MHz

**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

**Battery Charger**  
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



**Windscreen**  
WH-4000S



- Contains 10 pieces

**Rack Mount Bracket**  
MB-15B



- For rack mounting one WD-5800

**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

# Specifications

## Wireless Microphones



**WM-5270**



**WM-5265**



**WM-5225**

Microphone Element	Dynamic microphone: Unidirectional	Dynamic microphone: Cardioid	Electret condenser microphone: Unidirectional
Frequency Range	576 - 865 MHz		576 - 937.5 MHz
Channel Selectable	64 channels* <sup>1</sup>		
Maximum Input Level	142 dB SPL	132 dB SPL	126 dB SPL
Battery	LR6 (AA)	LR6 (AA) or WB-2000 (Ni-MH battery)	
Battery Life	Approx. 10 hours (when the alkaline battery is used.)	Approx. 13 hours (when the WB-2000 is used.) Approx. 10 hours (when the alkaline battery is used.)	
Finish	Metal, Dark Grey	Resin, coating	Resin, coating
Dimensions	Φ 48 x 244 mm	Φ 50 x 229 mm	Φ 43.6 x 231.5 mm
Weight	340 g (with battery)	205 g (with battery)	180 g (with battery)
Accessories	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

## Wireless Transmitter



**WM-5325**

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

## Wireless Lavalier Microphone



**WM-4300**

Microphone Element	Condenser microphone : Unidirectional
Frequency Range	690 - 750 MHz, 794 - 865 MHz
Channel Selectable	64 channels* <sup>1</sup>
Maximum Input Level	120 dB SPL
Battery	6LR61 (9 V × 1)
Battery Life	10 hours (alkaline)
Finish	Resin coating
Dimensions	62 (W) × 142 (H) × 32 (D) mm
Weight	135g (with battery)

## Microphone Options



**YP-M5300**



**YP-M5310**



**WH-4000A**



**WH-4000H**

Microphone Element	Electret condenser microphone: Unidirectional	Electret condenser microphone: Omnidirectional	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)	

## Portable Receiver



**WT-5100**

Power Source	1.5 V DC(Battery)
Receiving Frequency	576 - 865 MHz
Channel Selectable	16 selectable frequencies
Receiving System	Double super-heterodyne
Receiving Sensitivity	60 dB or more, 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)
Battery Life	Approx. 13 hours when the WB-2000 is used. Approx. 10 hours when the alkaline battery is used.
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

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

## Wireless Receivers



	WT-5800	WT-5805	WT-5810	WT-4820
Power Requirement	AC mains (AC Adapter must be used)			
Receiving Frequency	576 - 865 MHz, UHF			576 - 865 MHz, UHF (WTU-4800)
Channel Selectable	64 selectable frequencies*1		16 channels*1	
Receiving System	Double super-heterodyne			Double super-heterodyne (WTU-4800)
Diversity System	True diversity	Space diversity	Space diversity	Space diversity (WTU-4800)
Mixing Output	MIC: -60 dB <sup>+2</sup> , 600 Ω, balanced, XLR-3-31 type connector LINE: -20 dB <sup>+2</sup> , 600 Ω, unbalanced, phone jack			-
Mixing Input	-20 dB <sup>+2</sup> , 10k Ω, unbalanced, phone jack			
Antenna	Whip antenna		Rod antenna	Whip antenna
Antenna Input	75 Ω, BNC, 9 V DC	75 Ω, BNC, 9 V DC	-	75 Ω, BNC, 9 V DC
Antenna Output	75 Ω, BNC (Gain 0 dB)	-	-	75 Ω, BNC (Gain 0 dB)
Receiving Sensitivity	90 dB or more			80 dB or more (WTU-4800)
Squelch Sensitivity	18 - 40 dBμV variable			18 dBμV (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)	102 dB or more (A-weight, balanced 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		206 (W) x 40.6 (H) x 152.7 (D) mm	210 (W) x 44.2 (H) x 181 (D) mm
Weight	700 g	700 g	590 g	770 g (without tuner module)

\*1 The number of channels may differ from country to country.

+2 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		16
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