

# 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 employs Phase Locked Loop (PLL) synthesis for remarkably stable
  performance. Reliable wide-area coverage permitting use of up at 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 continous 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-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

### 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

### **Beltpack Transmitter** WM-5325

Handheld Microphone

• 64 selectable channels

• Built-in antenna

• Dynamic microphone unit: Unidirectional

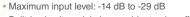
for compact and lightweight body

• ON/OFF switch prevents the microphone from rolling

• WB-2000 rechargeable battery or single AA battery operation

WM-5265





- · 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

### 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

- 64 selectable channels
- Highly reliable TA-4 (XLR-type) mini-cannon microphone plug

## • Unidirectional electret condenser microphone element

### • Input sensitivity control included • Built-in circuitry minimizes ambient noise effects

• Belt clip rotatable 360 degrees

### 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







• Frequency response: 300 Hz - 15k Hz

• Terminal:  $\phi$ 3.5mm monaural plug (16 $\Omega$ , 2 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



Receiver WT-4820





- 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

- 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 tunner unit (WT-5800 / WT-5805 / WT-4820) through coaxial cable
- Built-in RF signal booster
- Attenuation switch helps minimze noise and any interference

### **Options**

Waist Pouch WH-4000P



#### Windscreen WH-4000S



• Contains 10 pieces

### Rack Mount Bracket





• 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 W	/M-5265	WM-5225
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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*1	
Maximum Input Level	142 dB SPL	132 dB SPL	126 dB SPL
Battery	LR6 (AA)	LR6 (AA) or WB-2000 (Ni-MH battery)	
Batery 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	Ф 50 x 229 mm	Ф 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



### Wireless Lavalier Microphone



### WM-5325

Frequency Range	576 - 865 MHz*1, UHF
Channel Selectable	64 channels*1
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

### WM-4300

Microphone Element	Condenser microphone : Unidirectional	
Frequency Range	690 - 750 MHz, 794 - 865 MHz	
Channel Selectable 64 channels*1		
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-N	/15300	

YP-M5310	

WH-4000A	WH-4000H
Electret condenser microphone: Unidirectional	Electret condenser microp Unidirectional

Electret condenser microphone: Unidirectional	Electret condenser microphone: Omnidirectional	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional
-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)
100 Hz - 12,000 Hz	100 Hz - 15,000 Hz	-	-
120 dB SPL	110 dB SPL	120 dB SPL	120 dB SPL
1.3 m			
	Ф 3.5 mm mini plug		
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)
20 g (cable included)		50 g (cabl	e included)
	Unidirectional -63 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz) 100 Hz - 12,000 Hz 120 dB SPL  Dark Black	Unidirectional         Omnidirectional           -63 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)         -64 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)           100 Hz - 12,000 Hz         100 Hz - 15,000 Hz           120 dB SPL         110 dB SPL           1.         Φ 3.5 mr           Dark Black         Dark Black	Unidirectional   Unidirectional   Unidirectional    -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)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -66 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)   -60 dB ±3 dB (0 dB=1V/0.1 pa. 1kHz)    -60 dB ±3 dB (0 dB=1V/0.1 p

### Portable Receiver



### WT-5100

W1-3100
1.5 V DC(Battery)
576 - 865 MHz
16 selectable frequencies
Double super-heterodyne
60 dB or more, Signal to noise ratio (20 dBμV input, ±40 kHz devication)
200 Hz - 5 kHz (Portable transmitter to portable receiver)
LR6 (AA) or WB-2000 (Ni-MH battery)
Approx. 13 hours when the WB-2000 is used.
Approx. 10 hours when the alkaline battery is used.
Resin, dark silver
62 (W) x 163.6 (H) x 32.5 (D) mm
125 g (with battery)
Neck Strap x 1

 $<sup>^{\</sup>ast 1}$  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 se	electable frequencies*1		16 ch	annels*1
Receiving System		Double super-heterody	ne		Double super-heterodyne (WTU-4800)
Diversity System	True diversity	Space diversity		Space diversity	Space diversity (WTU-4800)
Mixing Output	N	IIC: -60 dB*2, 600 $\Omega$ , balanced, XLR-3-LINE: -20 dB*2, 600 $\Omega$ , unbalanced	-31 type o	connector jack	-
Mixing Input		-20 dB*2, 10	)kΩ, unba	alanced, phone jack	
Antenna		Whip antenna		Rod antenna	Whip antenna
Antenna Input	75Ω, BNC, 9 V DC	75Ω, BNC, 9 V DC		-	75Ω, BNC, 9 V DC
Antenna Output	75Ω, BNC (Gain 0 dB)	-		-	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			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)

<sup>\*1</sup> 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 Adap	ter 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	12	6	2
simultaneously			
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

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

### Earphone



### YP-E401

Туре	Dynamic type
Impedance	16Ω
Frequency Range	300 Hz - 15 kHz
Input	Max. 50 mW
Terminal	Φ 3.5 mm mini plug (3-pole)
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

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- WH-4000H
- WT-5810

### WS-5325U



### Combination includes:

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

### WS-5325M



### Combination includes:

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

