TOA

UHF WIRELESS MICROPHONE SYSTEMS

Enhanced ease of use and performance,
for a wider range of applications

Vocal Wireless Microphones

TOA vocal microphones are specifically designed to deliver a flat frequency response in order to achieve accurate, high fidelity vocal reproduction, for a powerful and rich sound that extracts the maximum quality from any vocal performance.
Dynamic cardioid microphones are capable of effortlessly accommodating high input levels without overloading. For instance, the WM-5270 incorporates a pad switch that changes the maximum allowable input sound pressure from 130 dB to 142 dB to better match a wide input level range for optimal performance.
TOA vocal microphones feature wide-area receptivity, enabling operation as far as 120 meters (when YW-4500 used) away from their tuner units. PLL-synthesized circuitry oscillation enhances carrier frequency stability and reliability, for improved performance. An at-a-glance indicator warns of low battery status, while the microphone's single proprietary TOA battery (average operation exceeding 10 hrs.) reduces size and operating cost.

WM-5270
UHF Handheld Wireless Microphone

WM-4200
UHF Handheld Wireless Microphone

WM-4210
UHF Handheld Wireless Microphone

Speech Wireless Microphones

TOA speech microphones are optimized with a frequency response tailored to emphasize clarity, thus delivering increased intelligibility. These microphones employ electret condenser elements that minimize handling-related noise, making them particularly suited for speech applications. These microphones feature a more streamlined, less bulky profile compared to conventional models, thanks to a new built-in antenna. In addition, overall weight has also been reduced, as the transmitter component now weighs less. Transmitter choices include headset types and units optimized for aerobics applications, allowing users to precisely choose a model that best suits their requirements.
TOA speech microphones feature wide-area receptivity, enabling operation as far as 120 meters (when YW-4500 used) away from their tuner units. PLL-synthesized circuitry oscillation enhances carrier frequency stability and reliability, for improved performance. An at-a-glance indicator warns of low battery status, while the microphone's single proprietary TOA battery (average operation exceeding 10 hrs.) reduces size and operating cost.

WM-5220
UHF Handheld Wireless Microphone

WM-4220
UHF Handheld Wireless Microphone

WM-4300
UHF Lavalier Wireless Microphone

WM-5320
UHF Lavalier Wireless Microphone

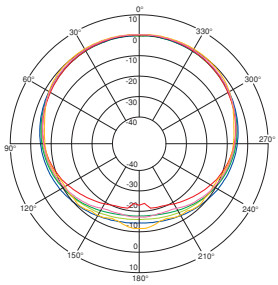
WM-5320H
UHF Headset Wireless Microphone

WM-5320A
UHF Headset (Aerobics) Wireless Microphone

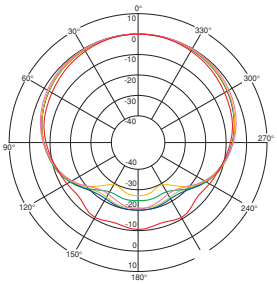
A greater choice of microphones, plus more flexible and robust operation.

Polar Response

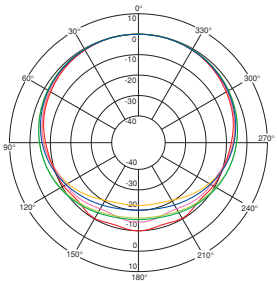
Vocal microphones



WM-5270

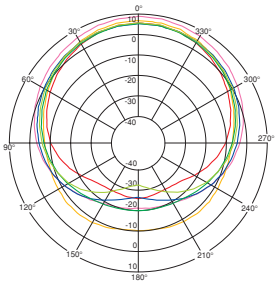


WM-4200

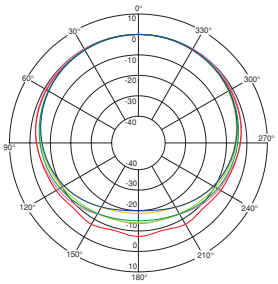


WM-4210

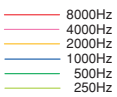
Speech microphones

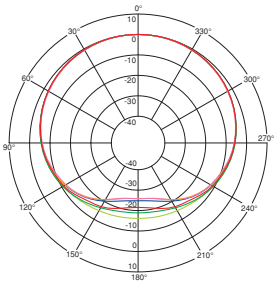


WM-5220

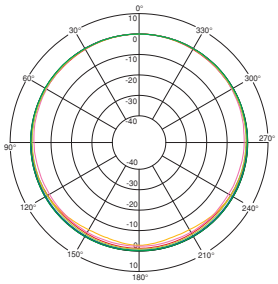


WM-4220

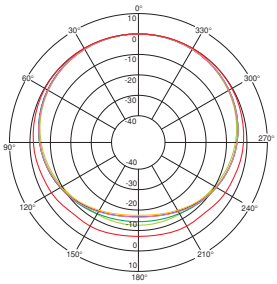




WM-4300

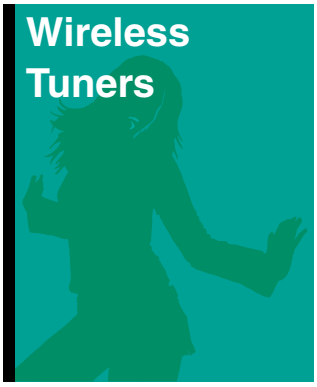


WM-5320



WM-5320H/WM-5320A

Wireless Tuners



TOA wireless microphone tuners are designed to deliver outstanding performance levels, stability and overall reliability. A wide choice of channels realized by the use of the PLL-synthesized oscillator enables you to select channels freely to prevent any interference. In addition, TOA tuners provide significantly less potential for noise caused by changeovers between antennas, by employing true diversity and space diversity methods. A two-line LCD display enables faster meter reading. Remaining battery power indication is also provided.
A PLL synthesis system is incorporated to generate highly accurate frequency output signals that help achieve better overall system performance. For further performance enhancement, a TOA diversity system eliminates dead spots and provides more stable signal reception. Noise reduction is improved with a squelch function (carrier, noise, tone), and a compander function minimizes ambient noise pickup. For easier operation, a Channel Check function simplifies channel setting operations on wireless microphones used on multiple channels simultaneously. A low battery indicator monitors and indicates microphone battery voltage status.

WT-5800
UHF Wireless Tuner

WT-5805
UHF Wireless Tuner

WT-5810
UHF Wireless Portable Tuner

WT-4820
2-Channel UHF Wireless Tuner

WTU-4800
UHF Wireless Tuner Unit

Optional Accessories

WD-4800
Power/Antenna Distributor

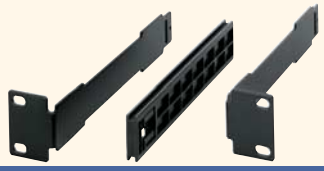
- 2 antenna inputs and 4 distributed outputs
- Supplies power to the antenna

YW-4500
UHF Wireless Antenna

- 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.

MB-WT3
Rack Mount Bracket Kit

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



MB-WT4
Rack Mount Bracket Kit

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

MB-15B
Rack Mount Bracket Kit

- For rack-mounting one WD-4800 unit

VOCAL WIRELESS MICROPHONES

Vocal	WM-5270	WM-4200	WM-4210
Microphone Element	Dynamic microphone: Cardioid	Dynamic microphone: Cardioid	Dynamic microphone: Cardioid
Channel Selectable	64 selectable frequencies*1	64 selectable frequencies*1	16 CH
Maximum Input Level	142 dB SPL	145 dB SPL	130 dB SPL
Battery	LR6 (AA)	6LR61 (9V × 1)	6LR61 (9V × 1)
Finish	Metal, dark gray	Resin, coating (change other's)	Resin, coating (change other's)
Dimensions	ø48 × 244 mm	ø52.2 × 279.4 mm	ø50 × 235.2 mm
Weight	340 g (with battery)	300 g (with battery)	250 g (with battery)
Accessories	Microphone holder (with stand adapter), Storage case, Rolling stopper	Microphone holder (with stand adapter), Storage case	Microphone holder (with stand adapter), Storage case

SPEECH WIRELESS MICROPHONES

Speech	WM-5220	WM-4220
Microphone Element	Electret condenser microphone: Cardioid	Electret condenser microphone: Cardioid
Channel Selectable	16 CH	16 CH
Maximum Input Level	126 dB SPL	125 dB SPL
Battery	LR6 (AA)	6LR61 (9V × 1)
Finish	Resin, rubber coating	Resin, coating (change other's)
Dimensions	ø43.6 × 231.5 mm	ø45 × 235.2 mm
Weight	180 g (with battery)	250 g (with battery)
Accessories	Microphone holder (with stand adapter), Storage case	Microphone holder (with stand adapter), Storage case

Speech	WM-5320	WM-5320H	WM-5320A	WM-4300
Microphone Element	Electret condenser microphone: Omni-directional	Electret condenser microphone: cardioid	Electret condenser microphone: cardioid	Electret condenser microphone: Cardioid
Channel Selectable	64 selectable frequencies*1	64 selectable frequencies* 1	64 selectable frequencies*1	64 selectable frequencies*1
Maximum Input Level	110 dB SPL	120 dB SPL	120 dB SPL	120 dB SPL
Battery	LR6 (AA)	LR6 (AA)	LR6 (AA)	6LR61 (9V × 1)
Finish	Resin, coating	Resin, coating	Resin, coating	Resin, coating
Dimensions	62 (W) × 102.5 (H) × 23 (D) mm	62 (W) × 102.5 (H) × 23 (D) mm	62 (W) × 102.5 (H) × 23 (D) mm	62 (W) × 142 (H) × 32 (D) mm
Weight	110 g (with battery)	130 g (with battery)	130 g (with battery)	135 g (with battery)
Accessories	Storage case, Neck strap	Storage case, Neck strap	Waist pouch	Storage case

WIRELESS TUNERS

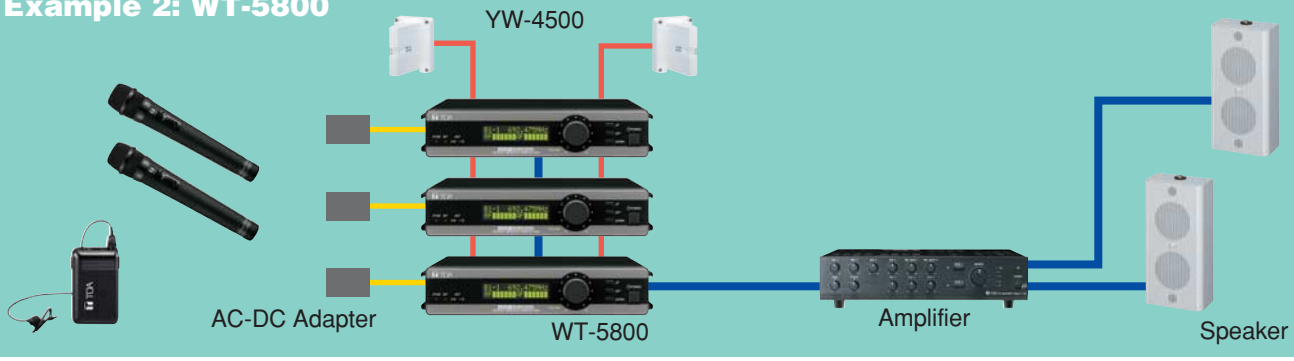
	WT-5800	WT-5805	WT-5810
Power Requirement	AC mains (AC adapter must be used)	AC mains (AC adapter must be used)	AC mains (AC adapter must be used)
Channel Selectable	64 Selectable frequencies	64 Selectable frequencies	16CH
Receiving System	Double Super-heterodyne	Double Super-heterodyne	Double Super-heterodyne
Diversity System	True diversity	Space diversity	Space diversity
Mixing Output	MIC: -60 dB*2, 600Ω, balanced, XLR-3-31 type connector LINE: -20 dB*2, 600Ω, unbalanced, phone jack	MIC: -60 dB*2, 600Ω, balanced, XLR-3-31 type connector LINE: -20 dB*2, 600Ω, unbalanced, phone jack	MIC: -60 dB*2, 600Ω, balanced, XLR-3-31 type connector LINE: -20 dB*2, 600Ω, unbalanced, phone jack"
Mixing Input	-20 dB*2, 10 kΩ, unbalanced	-20 dB*2, 10 kΩ, unbalanced	-20 dB*2, 10 kΩ, unbalanced
Antenna	Whip antenna	Whip antenna	Rod antenna
Antenna Input	75 Ω, BNC, 9 V DC	75 Ω, BNC, 9 V DC	—
Antenna Output	75Ω, BNC (Gain 0dB)	—	—
Receiving Sensitivity	Over 90 dB, S/N ratio	Over 90 dB, S/N ratio	Over 90 dB, S/N ratio
Squelch Sensitivity	18 – 40 dBμ V variable	18 – 40 dBμ V variable	18 – 40 dBμ V variable
Tone Frequency	32.768 kHz	32.768 kHz	32.768 kHz
S/N Ratio	Over 110dB (A-weight, unbalanced output)	Over 110dB (A-weight, unbalanced output)	Over 104dB (A-weight, unbalanced output)
Harmonic Distortion	Under 1% (typical)	Under 1% (typical)	Under 1% (typical)
Frequency Response	100 – 15,000 Hz, ±3 dB	100 – 15,000 Hz, ±3 dB	100 – 15,000 Hz, ±3 dB
Finish	Resin, black	Resin, black	Resin, black
Dimensions	210(W) × 44(H) × 205.1(D) mm	210(W) × 44(H) × 205.1(D) mm	206(W) × 40.6(H) × 152.7(D) mm
Weight	700 g	700 g	590 g

	WT-4820	WTU-4800
Power Requirement	AC mains (AC adapter must be used)	7 – 12V DC
Channel Selectable	16 CH	16 CH
Receiving System	—	Double Super-heterodyne
Diversity System	—	Space diversity
Mixing Input	-20 dB*2, 10 kΩ, unbalanced, phone jack	—
Antenna	Whip antenna	—
Antenna Input	75 Ω, BNC, 9 V DC	—
Antenna Output	75Ω, BNC (Gain 0dB)	—
Receiving Sensitivity	—	Better than 80 dB, S/N ration
Squelch System	—	Noise SQ
Squelch Sensitivity	—	18 dBμ V
S/N Ratio	Over 102dB (A-weight, balanced output)	—
Harmonic Distortion	Under 1% (typical)	Under 1% (typical)
Frequency Response	50 – 18,000 Hz, ±3 dB	100 – 12,000 Hz, ±3 dB
Finish	Resin, black	Steel
Dimensions	210(W) × 44.2(H) × 181(D) mm	60(W) × 25(H) × 139(D) mm
Weight	700 g	130 g

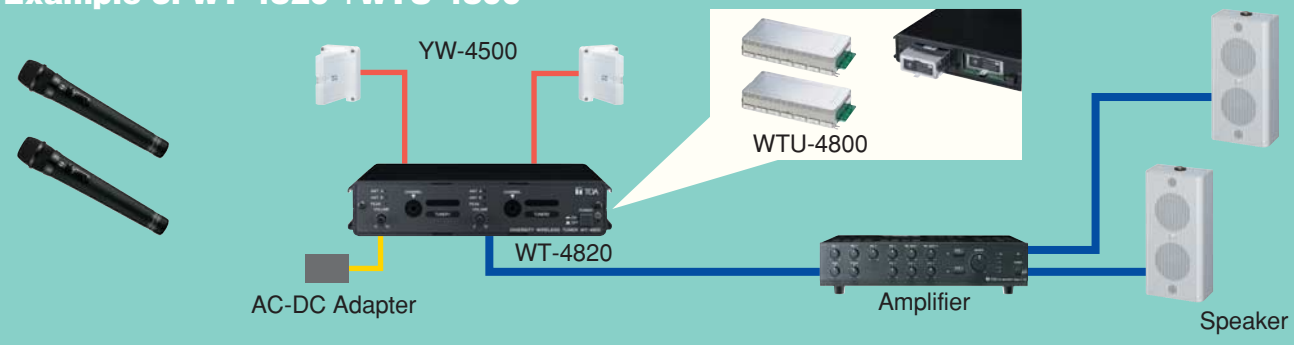
*1 The number of channels may differ from country to country.
*2 0 dB = 1V

Example 1: WT-5810

Example 2: WT-5800



Example 3: WT-4820 +WTU-4800



UHF Wireless Microphone Sets

Human society with Sound & Communication

TOA Corporation
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