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 132 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
Handheld Wireless Microphone

WM-5265
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.
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WM-5225
Handheld Wireless Microphone

WM-5325
Wireless Transmitter

WM-4300
Lavalier Wireless Microphone

YP-M5300
Unidirectional Lavalier Microphone

YP-M5310
Omni-directional Lavalier Microphone

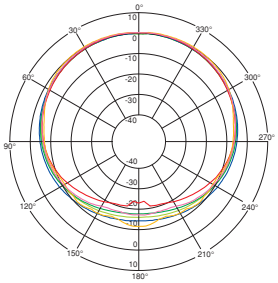
WH-4000H
Headset Microphone

WH-4000A
Headset (Aerobics) Microphone

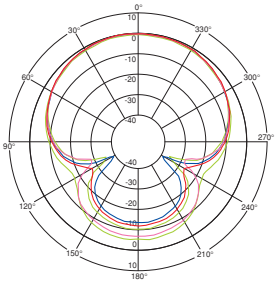
A greater choice of microphones, plus more flexible and robust operation.

Polar Response

Vocal microphones

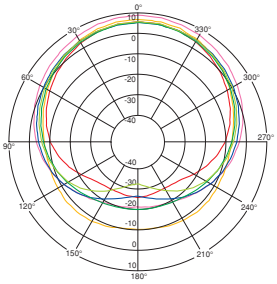


WM-5270

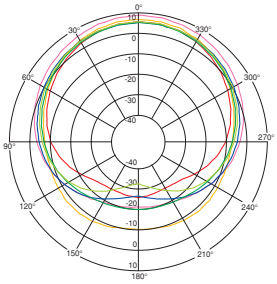


WM-5265

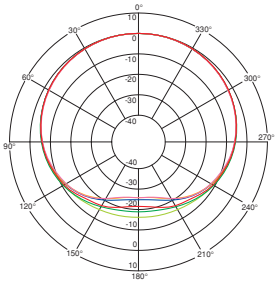
Speech microphones



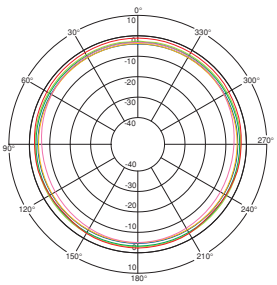
WM-5220



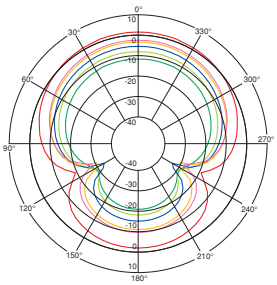
WM-5225



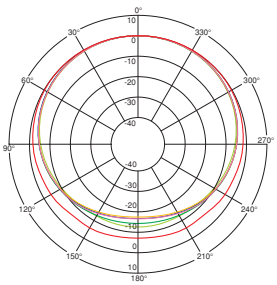
WM-4300



YP-5310

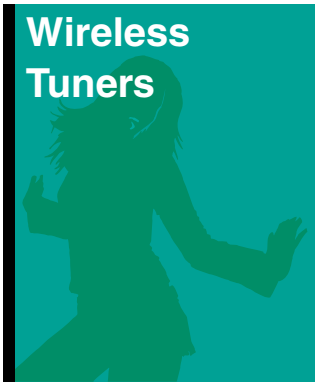


YP-5300



WH-4000H/WH-4000A

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

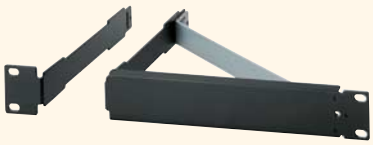
Options

WD-4800
Power/Antenna Distributor

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

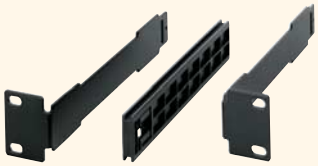
YW-4500
UHF Wireless Antenna

- 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

WH-4000P
Waist Pouch

MB-15B
Rack Mount Bracket Kit

- For rack-mounting one WD-4800 unit

WH-4000S
Windscreen

- Contains 10 pieces

VOCAL WIRELESS MICROPHONES

Vocal	WM-5265	WM-5270
Microphone Element	Dynamic microphone: Unidirectional	Dynamic microphone: Cardioid
Frequency Range	576 – 865 MHz*1, UHF	576 – 865 MHz*1, UHF
Channel Selectable	64 channels*1	64 channels*1
Maximum Input Level	132 dB SPL	142 dB SPL
Battery	LR6 (AA) or WB-2000 (Ni-MH battery)	LR6 (AA)
Finish	Resin coating	Metal, dark gray
Dimensions	ø50 x 229 mm	ø48 × 244 mm
Weight	205 g (with battery)	340 g (with battery)
Accessories	Microphone holder (with stand adapter), Screw driver, Storage case	Microphone holder (with stand adapter), Storage case, Rolling stopper

SPEECH WIRELESS MICROPHONES

Speech	WM-5225	WM-4300	WM-5325
Microphone Element	Electret condenser microphone: Unidirectional	Electret condenser microphone: Cardioid	—
Frequency Range	576 – 865 MHz*1, UHF	690 –865 MHz*1, UHF	576 – 865 MHz*1, UHF
Channel Selectable	64 channels*1	64 channels*1	64 channels*1
Maximum Input Level	126 dB SPL	120 dB SPL	-14 dB to -29 dB* (Audio level control: Min. to Max.)
Battery	LR6 (AA) or WB-2000 (Ni-MH battery)	6LR61 (9V × 1)	LR6 (AA) or WB-2000 (Ni-MH battery)
Finish	Resin, rubber coating	Resin, coating	Resin, coating (change other's)
Dimensions	ø43 × 231.5 mm	62 (W) × 142 (H) × 32 (D) mm	62 (W) × 102.5 (H) × 23 (D) mm
Weight	180 g (with battery)	135 g (with battery)	90 g (with battery)
Accessories	Microphone holder (with stand adapter), Storage case	Storage case	Screw driver, Storage case, Neck strap

Speech	YP-M5300	YP-M5310	WH-4000A	WH-4000H
Microphone Element	Electret condenser microphone: Omni-directional	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional	Electret condenser microphone: Unidirectional
Sensitivity	-66 dB ±3 dB (0 dB = 1 V/0.1 pa. 1k Hz)	-66 dB ±3 dB (0 dB = 1 V/0.1 pa. 1k Hz)	-66 dB ±3 dB (0 dB = 1 V/0.1 pa. 1k Hz)	-66 dB ±3 dB (0 dB = 1 V/0.1 pa. 1k Hz)
Frequency Response	100 — 12,000 Hz	100 — 15,000 Hz	—	—
Maximum Input Level	120 dB SPL	110 dB SPL	120 dB SPL	120 dB SPL
Cord Length	1.3 m	1.3 m	1.3 m	1.3 m
Connector	ø3.5 mm mini plug	ø3.5 mm mini plug	ø3.5 mm mini plug	ø3.5 mm mini plug
Finish	Dark black	Dark black	Headband: EVA, black Frame: Stainless, black (silicon rubber) Gooseneck: Iron, chrome-plated, black (shrink tube)	Frame: Stainless, black (silicon rubber) Gooseneck: Iron, chrome-plated, black (shrink tube)
Weight	20 g (cable included)	20 g (cable included)	50 g (cable included)	50 g (cable included)

WIRELESS TUNERS

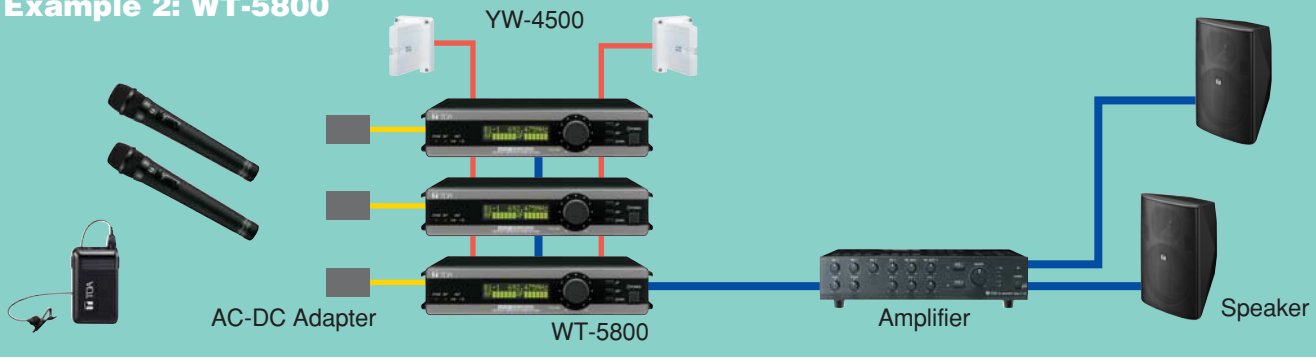
	WT-5800	WT-5805	WT-5810
Power Requirement	AC mains (AC adapter must be used)	AC mains (AC adapter must be used)	AC mains (AC adapter must be used)
Frequency Range	576 – 865 MHz*1, UHF	576 – 865 MHz*1, UHF	576 – 865 MHz*1, UHF
Channel Selectable	64 Selectable frequencies	64 Selectable frequencies	16 channels
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, phone jack	-20 dB*2, 10 kΩ, unbalanced, phone jack	-20 dB*2, 10 kΩ, unbalanced, phone jack
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	90 dB or more	90 dB or more	90 dB or more
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	110dB or more (A-weight, unbalanced output)	110dB or more (A-weight, unbalanced output)	104dB or more (A-weight, unbalanced output)
Harmonic Distortion	1% or less (typical)	1% or less (typical)	1% or less (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
Frequency Range	576 – 865 MHz*1, UHF	576 – 865 MHz*1, UHF
Channel Selectable	16 channels	16 channels
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	—	80 dB or more
Squelch System	—	Noise SQ
Squelch Sensitivity	—	18 dBμ V
S/N Ratio	102dB or more (A-weight, balanced output)	—
Harmonic Distortion	1% or less (typical)	1% or less (typical)
Frequency Response	50 – 18,000 Hz, ±3 dB	100 – 12,000 Hz, ±3 dB
Finish	Resin, black	Tin plated steel
Dimensions	210(W) × 44.2(H) × 181(D) mm	60(W) × 25(H) × 139(D) mm
Weight	770 g (without tuner module)	130 g

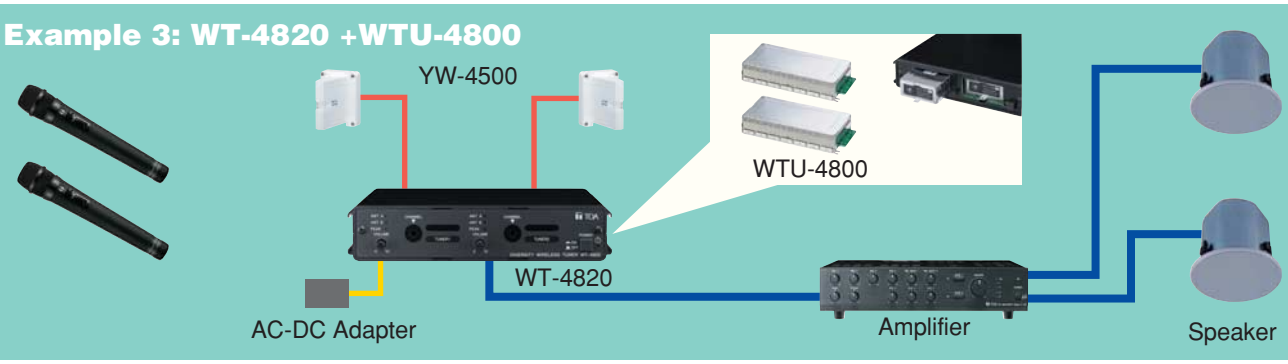
*1 The number of channels may differ from country to country.
*2 0 dB = 1V

Example 1: WT-5810

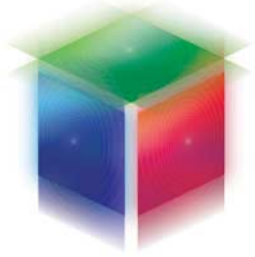
Example 2: WT-5800



Example 3: WT-4820 +WTU-4800



UHF Wireless Microphone Sets



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