



# 200/300 Series

**UHF Wireless Microphone & Tuner Packages**



*TOA 200/300 Series wireless microphone  
and tuner sets are ready with audio enhancement  
as soon as you're ready to start.*

**safe&sound**



# TOA UHF wireless microphone/tuner set optimized for vocal or presentation

The TOA 200/300 Series are matched packages of a wireless microphone and a tuner. Both employ a diversity tuner with a dynamic processor, adjustable squelch, and four switchable UHF frequencies, for crystal-clear sound, undisturbed operation and interference-free reception. The 200 Series "vocal" set comes with a hand-held dynamic cardioid microphone that is easy and comfortable to hold and ensures lively and assertive audio enhancement. The 300 Series "presentation" set is

available in two versions: the WS-300, with an inconspicuous permanently polarized clip-on condenser microphone, and the WS-300H, with a headset microphone. Both sets come with a bodypack transmitter. An omnidirectional pickup on the WS-300 and a unidirectional pickup on the WS-300H ensure optimal speech comprehensibility during lectures, presentations and even theater performances.



WS-200

## Handheld Wireless Microphone/Tuner Set

### WS-200

- Operating range: 3 m – 120 m.
- Dynamic cardioid handheld microphone.
- Slim and lightweight microphone design.
- Four switchable UHF transmission/receiving frequencies ensure noise-free operation.
- RF carrier power: 10 mW.
- Power supply (microphone): 6LR61.
- Operating time: 10 hrs.
- Dimensions (microphone):  $\varnothing 50 \times 273$  mm.
- Weight (handheld microphone): 220 g.
- Diversity tuner technology for highest-quality reception.
- Dynamic processor provides optimally clear sound
- Adjustable squelch feature eliminates unwanted noise.
- Tuner comes in robust metal housing.
- Switching bandwidth: 2 MHz.
- Frequency response of 100 to 15,000 Hz.
- Signal-to-noise ratio: 95 dB(A).
- Less than 1% THD (Total Harmonic Distortion).
- Balanced audio output: XLR, +16 dBu.
- Unbalanced audio output: Phone jack, +10 dBu.
- Power supply: 12V DC nom.
- Dimensions (tuner):  $214 \times 35 \times 100.5$  mm.
- Weight (tuner): 580 g.

# uner sets, ion applications.



WS-300

## Lavalier Wireless Microphone/Tuner Set

### WS-300

- Operating range: 3 m – 120 m.
- Permanently polarized condenser lavalier microphone with wearable transmitter.
- Omnidirectional pickup pattern.
- Four switchable UHF transmission/receiving frequencies ensure noise-free operation.
- RF carrier power: 10 mW.
- Power supply (Transmitter): 6LR61.
- Operating time: 10 hrs.
- Dimensions (Transmitter): 62 × 102 × 31.5 mm with clip.
- Weight (Transmitter): 90 g.
- Cable length: 1.6 m.
- Diversity tuner technology for highest-quality reception.
- Dynamic processor provides optimally clear sound.
- Adjustable squelch feature eliminates unwanted noise.
- Tuner comes in robust metal housing.
- Switching bandwidth: 2 MHz.
- Frequency response of 100 to 15,000 Hz.
- Signal-to-noise ratio: 95 dB(A).
- Less than 1% THD (Total Harmonic Distortion).
- Balanced audio output: XLR, +16 dBu.
- Unbalanced audio output: Phone jack, +10 dBu.
- Power supply: 12V DC nom.
- Dimensions (Tuner): 214 × 35 × 100.5 mm.
- Weight (Tuner): 580 g.



WS-300H

## Headset Wireless Microphone/Tuner Set

### WS-300H

- Operating range: 3 m – 120 m.
- Permanently polarized condenser headset microphone with wearable transmitter.
- Unidirectional pickup pattern.
- Four switchable UHF transmission/receiving frequencies ensure noise-free operation.
- RF carrier power: 10 mW.
- Power supply (Transmitter): 6LR61.
- Operating time: 10 hrs.
- Dimensions (Transmitter): 62 × 102 × 31.5 mm with clip.
- Weight (Transmitter): 90 g.
- Cable length: 1.3 m.
- Diversity tuner technology for highest-quality reception.
- Dynamic processor provides optimally clear sound.
- Adjustable squelch feature eliminates unwanted noise.
- Tuner comes in robust metal housing.
- Switching bandwidth: 2 MHz.
- Frequency response of 100 to 15,000 Hz.
- Signal-to-noise ratio: 95 dB(A).
- Less than 1% THD (Total Harmonic Distortion).
- Balanced audio output: XLR, +16 dBu.
- Unbalanced audio output: Phone jack, +10 dBu.
- Power supply: 12V DC nom.
- Dimensions (Tuner): 214 × 35 × 100.5 mm.
- Weight (Tuner): 580 g.

## SPECIFICATIONS

### WS-200

#### UHF Handheld Wireless Microphone/Tuner Set

Product Composition	Handheld wireless microphone × 1, Tuner × 1
Frequency Range	UHF*
Channel Selectable	4 channels
Accessory	AC – DC adapter × 1

#### Wireless Microphone

Microphone Element	Dynamic unit: Cardioid
RF Carrier Power	Max. 10mW
Modulation System	PLL synthesizer
Battery	6LR61
Battery Life	Approx. 10 hours
Indicator	Battery status LED
Finish	Resin, coating
Dimensions	ø50 × 273 mm
Weight	220 g

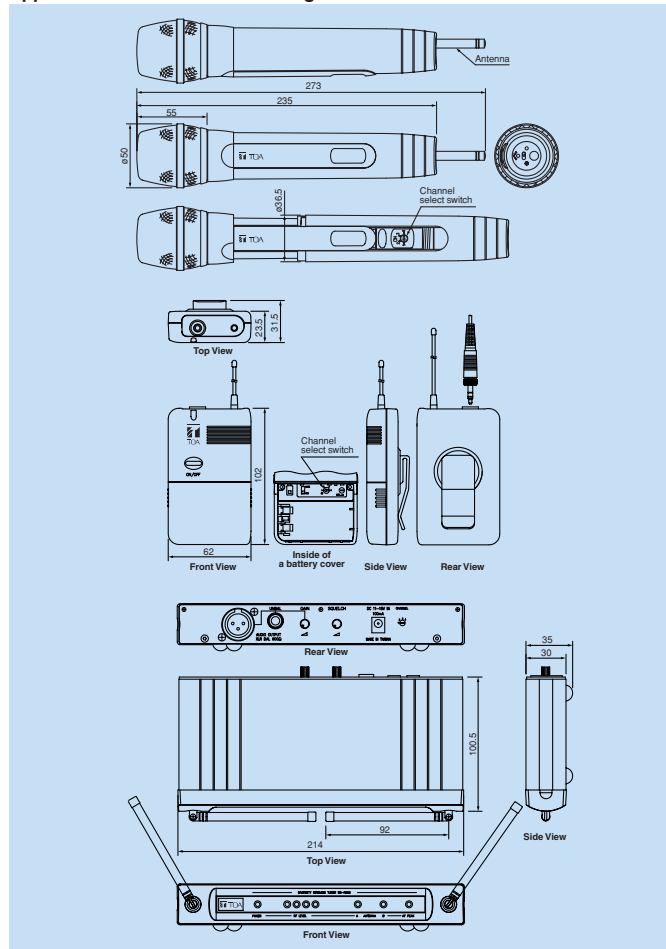
#### Wireless Tuner

Power Requirement	AC mains (supplied AC-DC adapter must be used)
Power Consumption	100 mA (12 V DC)
Receiving System	Double Super-heterodyne
Audio Output	Balanced output: +16 dB*, 600Ω, balanced, XLR-3-31 type connector Unbalanced output: +10 dB*, 600Ω, unbalanced, phone jack
Antenna	Rod antenna
Receiving Sensitivity	Over 90 dB, S/N ratio (20 dBμV input, 40 kHz deviation)
Squelch Sensitivity	18–40 dBμV variable
Indicator	ANT A/B, Audio (peak), RF level, Power
S/N Ratio	Over 95dB (A-weight, unbalanced output)
Harmonic Distortion	Under 1% (typical)
Frequency Response	100 – 15,000 Hz, ±3 dB
Operating Temperature	–10°C to +45°C
Finish	Front panel: Resin, gray
Dimensions	214 (W) × 35 (H) × 100.5 (D) mm (excluding antenna)
Weight	580 g

\*0dB = 0.775 V

\*Frequency range may vary by area.

#### Appearance and Dimensional Diagram



### WS-300

#### UHF Lavalier Wireless Microphone/Tuner Set

Product Composition	Lavalier wireless microphone × 1, Tuner × 1
Frequency Range	UHF*
Channel Selectable	4 channels
Accessory	AC – DC adapter × 1

#### Wireless Microphone

Microphone Element	Back electret condenser: Omnidirectional
RF Carrier Power	Max. 10mW
Modulation System	PLL synthesizer
Mic Input Connector	ø3.5 mini jack
Battery	6LR61
Battery Life	Approx. 10 hours
Indicator	Battery status LED
Finish	Resin, coating
Dimensions	62 (W) × 102 (H) × 31.5 (D) mm (excluding antenna)
Weight	90 g

#### Wireless Tuner

Power Requirement	AC mains (supplied AC-DC adapter must be used)
Power Consumption	100 mA (12 V DC)
Receiving System	Double Super-heterodyne
Audio Output	Balanced output: +16 dB*, 600Ω, balanced, XLR-3-31 type connector Unbalanced output: +10 dB*, 600Ω, unbalanced, phone jack
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Harmonic Distortion	Under 1% (typical)
Frequency Response	100 – 15,000 Hz, ±3 dB
Operating Temperature	–10°C to +45°C
Finish	Front panel: Resin, gray
Dimensions	214 (W) × 35 (H) × 100.5 (D) mm (excluding antenna)
Weight	580 g

\*0dB = 0.775 V

\*Frequency range may vary by area.

### WS-300H

#### UHF Headset Wireless Microphone/Tuner Set

Product Composition	Headset wireless microphone × 1, Tuner × 1
Frequency Range	UHF*
Channel Selectable	4 channels
Accessory	AC – DC adapter × 1

#### Wireless Microphone

Microphone Element	Electret condenser: Unidirectional
RF Carrier Power	Max. 10mW
Modulation System	PLL synthesizer
Mic Input Connector	ø3.5 mini jack
Battery	6LR61
Battery Life	Approx. 10 hours
Indicator	Battery status LED
Finish	Resin, coating
Dimensions	62 (W) × 102 (H) × 31.5 (D) mm (excluding antenna)
Weight	90 g

#### Wireless Tuner

Power Requirement	AC mains (supplied AC-DC adapter must be used)
Power Consumption	100 mA (12 V DC)
Receiving System	Double Super-heterodyne
Audio Output	Balanced output: +16 dB*, 600Ω, balanced, XLR-3-31 type connector Unbalanced output: +10 dB*, 600Ω, unbalanced, phone jack
Antenna	Rod antenna
Receiving Sensitivity	Over 90 dB, S/N ratio (20 dBμV input, 40 kHz deviation)
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Specifications are subject to change without notice.  
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