D5000 Series
Digital Wireless System

Many adjacent rooms, multiple microphones, no problem. D5000 delivers your important messages clearly to the audience everytime.
Voical clarity – that cuts through the noise.
TOA Digital Wireless Systems

The TOA D5000 Series provides unprecedented speech clarity for delivering a quality listening experience to audiences in any speaking scenario. Experience for yourself the clarity, ease and safety of this wireless solution, whether for the classroom, office meeting rooms, banquet halls, courthouses, or multipurpose halls.

Receiver
WT-D5800

- Frequency channel scan
- Feedback suppression
- Built-in optimized preset equalization in microphones
- Detachable antenna
- Audio mixing with cascading voice input connectivity
- Antenna mixing with cascading antenna connectivity
- Intuitive LCD display

Handheld Transmitter
WM-D5200

- Lightweight body
- 1 AA alkaline battery provides up to 8 hours of continuous use
- Selectable microphone sensitivity
- Selectable transmission output (1 mW/10 mW)
- 3-step battery life indicator
- Built-in antenna

Beltpack Transmitter
WM-D5300

- Ultra slim and lightweight body
- 1 AA alkaline battery provides up to 8 hours of continuous use
- Selectable microphone sensitivity
- Selectable transmission output (1 mW/10 mW)
- 3-step battery life indicator
Product Features

- TOA’s proprietary digital audio processing ensures optimal sound quality and intelligibility for speech applications.
- Up to 32 simultaneous channels *Region dependent
- 15 compatible channels per 6 MHz, 20 compatible channels per 8 MHz TV channel
- Proprietary encryption settings to prevent data leakage
- Approx. 100 m operating range (line of sight)
- Dedicated maintenance software enables visual monitoring of any jam radio waves or changes to incoming radio waves.
- Signal stability is assured using the digital diversity method.
- Control of peripherals is possible using contact output.

System components

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

Wall Mount Antenna
YW-4500

Antenna Distributor
WD-5800
Specifications

**WT-D5800 RH1**

**Power Source**
AC Mains (supplied AC adapter must be used)

**Current Consumption**
350 mA (13.5 V)

**Receiving Frequency**
576 MHz to 606 MHz

**Channel Selectable**
160 selectable frequencies

**Receiving System**
Double super-heterodyne

**Diversity system**
Space diversity (digital diversity)

**Mixing Output**
MIC/LINE (selectable): -60 dB* (MIC)/–20 dB* (LINE), 600 Ω phone jack (unbalanced), 600 Ω XLR-3-32 type connector (balanced)

**Mixing Input**
–20 dB*, 10 kΩ, unbalanced, phone jack

**Antenna Input**
75 Ω, BNC (phantom powering for antenna), 9 V DC, 30 mA (max)

**Antenna Output**
75 Ω, BNC (Gain 0 dB)

**Contact Output**
1 channel, no-voltage make contact output, withstand voltage: 30 V DC, control current 0.5 A max terminal block (2 pins)

**Receiving Sensitivity**
24 dBμV or less (Bit error rate: 1E-5 or less)

**Antenna Input Attenuator**
0 dB/–10 dB switchable

**Indicator**
Audio (5 steps), RF (5 steps), ANT A/B, Audio (peak), Battery alarm

**Frequency Response**
50 Hz to 12 kHz

**Total Harmonic Distortion**
0.5 % or less

**Function**
Frequencies scanning, Feedback suppressor, Equalizer (optimizing each compatible microphone)

**ID Selectable**
10 patterns

**Operating Temperature**
14 °F to 122 °F (-10 °C to +50 °C)

**Operating Humidity**
30% to 85 %RH (no condensation)

**Finish**
Resin, black

**Dimensions**
8.27"(W) x 1.73"(H) x 8.34"(D) (210 × 44 × 211.9 mm) (except antenna)

**Weight**
1.61 lbs. (730 g)

**Accessory**
AC adapter x 1, Whip antenna x 2, Rubber foot x 4

**Option**
Rack mounting bracket kit: MB- WT3  (for rack mounting one WT-D5800  unit)
MB- WT4  (for rack mounting two WT-D5800  units)

* 0 dB = 1V

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**WM-D5200 -H1**

**Microphone Element**
Electret condenser unit: Unidirectional

**Modulation type**
FSK

**Frequency Range**
576 MHz to 606 MHz

**Channel Selectable**
160 channels (The number of channels may differ from country to country.)

**RF Carrier Power**
Less than 50 mW

**Maximum Input Level**
132 dB SPL (Sensitivity: L)/ 122 dB SPL (Sensitivity: H)
–18 dB* (Sensitivity: L)/ –28 dB* (Sensitivity: H)

**Audio Frequency Response**
100 Hz - 12 kHz

**Antenna**
Built-in type

**Dynamic Range**
Typ. 90 dB (when used with WT-D5800)

**ID Selectable**
10 patterns

**Battery**
AA Alkaline dry cell battery

**Battery Life**
Approx. 8 hours

**Operating Temperature**
14 °F to 122 °F (-10 °C to +50 °C) (except battery)

**Operating Humidity**
30% to 85 %RH (no condensation)

**Finish**
Body: ABS resin, black, coating
Head: steel, black, paint

**Dimensions**
ø1.85" x 9.43" (ø47 x 239.5 mm)
2.44"(W) x 7.28"(H) x 0.75"(D) (62 x 185 x 19 mm)

**Weight**
0.49 lbs. (220 g) (with battery)
0.2 lbs. (90 g) (with battery)

**Accessory**
Storage case x 1, Screw driver x 1, Microphone holder x 1

**Option**
Unidirectional lavalier microphone: YP-M5300
Omnidirectional lavalier microphone: YP-M5310
Headset microphone: WH-4000A, WH-4000H

* 0 dB = 1V

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**WM-D5300 -H1**

**Microphone Element**
Electret condenser unit: Unidirectional

**Modulation type**
FSK

**Frequency Range**
576 MHz to 606 MHz

**Channel Selectable**
160 channels (The number of channels may differ from country to country.)

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**Maintenance Software**

Maintenance Software, which supports setup and better operation of D5000 digital wireless system, is available on TOA DATA LIBRARY (www.toa-products.com/international/)

- Simultaneous status check of up to 16 receivers is possible.
- Walk-Test function allows you to check the antennas’ reception level in the entire room where the microphone is used.
- Channel Scan displays unused frequency channels.
- Spectrum Scan visualizes the level and frequency of undesired signals in the specified frequency range.