

# WH301 Wireless Headset

## DX Series Wireless Solutions

Linking  
People  
Together



WH301

### Key Features and Benefits

- Two-Channels
- 2.4 GHz frequency range
- 3.5 kHz wide band audio
- Up to 15 beltpacks and/or all-in-one headsets on a single system
- Single or dual-channel operation
- Up to 12 hours of battery life
- Compatible only with the MB300, MB300ES and EB300 base stations. Not compatible with other DX Series systems.

The DX Series are wireless solutions operating in the 2.4GHz frequency band for easy-to-use, affordable and secure communication.

### Description

The WH301 is a light-weight, single-ear, all-in-one wireless headset. It operates in the license-free 2.4GHz frequency range and is used with the MB300, MB300ES and EB300 base stations.

### Operation

Single-channel operation allows any four all-in-one headset users to engage in simultaneous, full-duplex communication. In dual-channel operation, three users may be in full-duplex with up to 12 users is in listen-only mode.

### Durability

The WH301 has a rugged, reinforced casing and long lasting keypads with no mechanical switch. The WH301 has a lightweight, balanced design and wire-free steel headband for all day comfort.

### Battery Life and Charging

Using the BAT50 Li-Ion battery, the WH301 has up to 12 hours of battery life. The AC50 charges up to 4 BAT50 batteries at a time and includes storage slots for 4 additional batteries. Charging time is 2.5 hours.

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### Technical Specifications

#### Audio

**Channels:** 2 audio channels  
**Frequency Range:** 2400 MHz – 2483.5 MHz  
**Frequency Response:** 200 Hz – 3.5 kHz  
**Antenna:** Internal, horizontal/vertical diversity  
**Headset Connector:** 4-pin, mini-DIN  
**Microphone:** Electret  
**Headset Output:** 160mW into 32 Ohms  
**Communication Security:** 64-bit encryption  
**System Distortion:** <2%  
**Controls:** Power, Volume-Up, Volume-Down, X, O, All  
**Indicators:** Dual-color LED (red/green)  
**Battery Requirements:** 3.6V lithium-ion  
**Battery Life:** Up to 12 hours

#### Antenna

Internal

#### Transmitter

**Type:** Frequency Hopping, Spread Spectrum (FHSS)  
**Transmit Power:** 100mW burst  
**Modes:** Momentary or Latch  
**Type:** Gaussian filtered FSK, TDMA  
**Frequency Stability:** 13 ppm  
**Harmonics/Spurious:** Exceeds FCC and ETSI specifications

#### Receiver

**Type:** Frequency Hopping, Spread Spectrum (FHSS)  
**RF Sensitivity:** <-90dBm w 10-3 BER  
**Frequency Stability:** 13 ppm  
**Distortion:** <2%

#### Environmental

32°F to +122°F  
(0°C to +50°C)

#### Weight

5.7 oz (0.16kg) including battery

### WH301



### Order Codes

#### Part Number and Description

##### CZ-WH301 (wireless headset)

Two-channel all-in-one lightweight wireless headset with 2 BAT50 batteries for use with the MB300, MB300ES and EB300 base stations.

### Legend

1. Volume Up
2. O
3. Volume Down
4. All
5. X
6. Power Switch

#### Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.