

DX300ES Digital Wireless Headset System

2.4 GHz Technology for Multi-Channel, Tactical & Public Safety Applications

Tactical communications have become more portable and versatile with the DX300ES. This system supports hands-free, two-way digital conversations with interfacing for two channels of external radio or intercom communications. Its compact design makes it highly portable and very quick to set up and operate. Ideal for today's frequency-congested markets, the DX300ES is a digital spread spectrum system that requires no frequency coordination or license for operation.

Special features include two-channel operation, dedicated channel relays, battery operation, four-wire audio interfaces, and HME *Spectrum Friendly*[™], 2.4 GHz technology. With multi-channel support and relay closures the DX300ES can also support live event, remote broadcast, movie and video production applications.



Simple controls enable the DX300ES to be easily transported, set up and operational in minutes even by non-technical personnel.

DX300ES System Highlights

> **Expandable Hands-Free Operation**

Each base enables three COMMUNICATORS[®] to operate in full duplex, hands-free mode in the two-channel configuration. Each base will support up to 15 registered COMMUNICATORS.

> **Dedicated Channel Relays**

Each channel has a dedicated relay. Remote users can activate either one or both simultaneously.

> **Secure, Encrypted Communication**

Digital Frequency-Hopping, Spread Spectrum (FHSS) coupled with 64-bits of encryption protects secure link for critical communications.

> **Fast, Easy Set-Up**

The compact design makes it highly portable and very quick to set up and operate.

> **No Frequency Coordination or License Requirements**

Digital spread spectrum system requires no frequency coordination or license for operation.

> **Compatible Configuration**

The system is easily configured to operate with almost any radio or digital matrix (four-wire) based configuration.

> **Spectrum Friendly[™]**

Frequency Range can be selected for low band only (2401.92 - 2439.936 MHz) high band only (2443.392 - 2481.408 MHz) or full band (2400-2483.5 MHz).

DX300ES Digital Wireless Headset System

System Specifications

Frequency Range:	All (2400 – 2483.5 MHz), Low (2401.92 to 2439.936 MHz) or High Band (2443.392 to 2481.408 MHz)
Frequency Response:	200 Hz to 3.5 KHz
Security:	64-Bit Encryption
Temperature Range:	-4 to 131°F (-20 to 55°C) Typ.
Transmit/Receive:	Frequency-Hopping, Spread Spectrum (FHSS)
Transmit Power:	100mw Burst
Modulation Type:	Gaussian Filtered FSK, TDMA
Frequency Stability:	13 ppm
Harmonics/Spurious:	Exceeds FCC and ETSI Specifications Over Temperature
RF Sensitivity:	<-90dBm w 10-3 BER
System Distortion:	<2%
Dynamic Range:	-90dBm to -20dBm
FCC License:	None Required (Approved for Worldwide Use)
FCC Acceptance:	Part 15

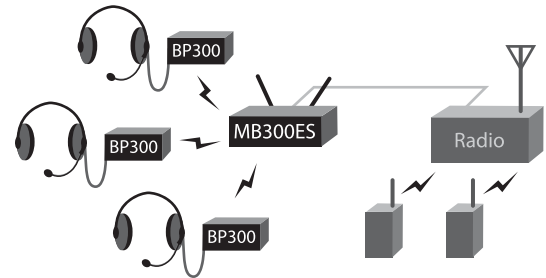
Base Station Specifications

Antenna Type:	External, Dual Diversity ½-Wave Dipole, R-TNC Connector (x2)
Power Requirements:	100–240VAC, 50–60Hz or 12–14VDC or Six 1.5V AA Batteries or BAT850 Rechargeable Battery (Optional)
Size:	8" x 8" x 3.5" (20.32cm x 20.32cm x 8.89cm)
Weight:	2.75 lb. (1.25kg) with Battery
AUX I/O:	600 Ω Balanced, with Level Adjustment
Headset Connector (x2):	Mini-DIN
Headset Output:	200mW into 32W
Relay:	8-Pin Phoenix – NC,COM,NO,GND (x2) 2A @ 30VDC

BP300 Beltpac and WH300 All-in-One Headset Specifications

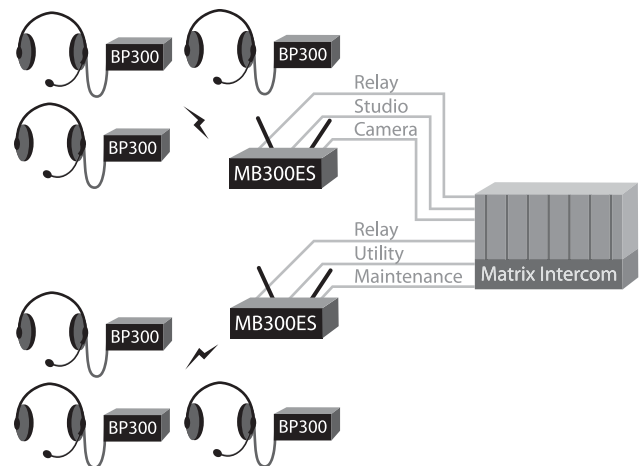
Antenna Type:	Internal, Dual Diversity (beltpac)
Transmission Modes:	Continuous (Latched) or Push-to-Talk (PTT)
Battery Life:	Latched: Up to 14 Hours PTT: Up to 20 Hours
Beltpac Size:	3.4" x 2.6" x 1.5" (8.64cm x 6.60cm x 3.81cm)
Weight:	BP200: 7.4oz (0.21kg) with Battery & Pouch WH300: 5.7oz (0.16kg) with Battery
Mic Input:	Electret
Headset Output:	160mw into 32W
Controls (Default):	Power-On/Off, Volume-Up/Down, IC-Talk, ISO-Relay
Indicators:	Power/Transmit/Low Battery LED & Voice Prompts
Beltpac Headset Connector:	Mini-DIN
Beltpac Carrying Pouch:	Santoprene

Radio Communications System



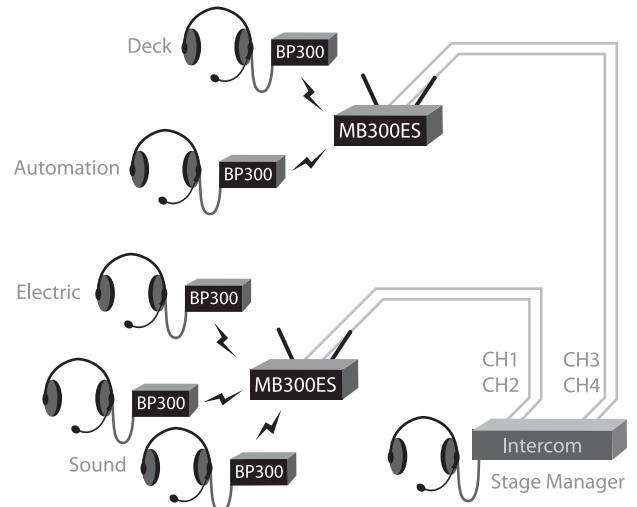
Secure, hands-free wireless for both team and radio communications.

Broadcast



Select matrix communication channel with two-channel COMMUNICATORS®.

Theatre



Easily configured when new requirements must be met.