

## DX100 Portable Digital Wireless Intercom System

### Digital Communications on the Go

Intercommunications just got more portable and affordable with the Digital DX100 Wireless Intercom System from HME. With the DX100, you'll get crystal-clear, two-way digital communications — all built into a super compact design for easy placement and operation.

The DX100 allows up to 15 people to speak to each other via headsets without any interconnecting cables. It's much better than walkie-talkies; you can seamlessly communicate in hands-free mode or have a private conversation on a secured channel.

Simple and expandable, the DX100 comes complete with everything you need for reliable, cost-effective operation. Plus, its ability to use AA/rechargeable batteries or 12VDC/automotive power adapter makes DX100 the perfect choice for any application.

Call toll-free **(800) 848-4468** or your authorized HME dealer for more information.



The super compact DX100 is built for more mobility and clear, digital communications for virtually any application.

### DX100 System Highlights

- > **2.4 GHz License-Free Operation**  
DX100 is approved for worldwide use — no need to coordinate frequency operation with other wireless systems.
- > **Portable, Compact Design**  
The super compact design makes the DX100 more convenient for travel and storage any time, anywhere.
- > **Flexible Battery-Powered Operation**  
Choose from four different ways to power your base: six 1.5V AA batteries or optional rechargeable BAT850 battery; 12VDC automotive adapter; or 100/240VAC power supply.
- > **Secure Communications**  
DX100 employs Digital Frequency Hopping Spread Spectrum and Encryption technologies to prevent people outside of the system from hearing your conversations.
- > **Hands-Free Communications**  
Up to four people can simultaneously have two-way, hands-free conversations.
- > **Expandable System**  
Expand the DX100 to meet your specifications; support up to 15 users per base.
- > **Informative Voice Prompts**  
User-friendly voice prompts inform you when to charge batteries and when you are out of range.
- > **A Sampling of Applications**
  - Coaches' Systems
  - Churches
  - Construction Crews
  - Crane Operators
  - Crowd Management
  - Hospitals
  - Live Events
  - Parking Attendants
  - Remote Production Crews
  - Schools
  - Security Teams
  - Surveying Crews
  - Theatres
  - Tour Guides

## DX100 Portable Digital Wireless Intercom System

### System Specifications

Frequency Range: .....2400-2483.5 MHz  
Frequency Response: .....200 Hz to 3.5 kHz  
Security .....64-Bit Encryption  
Temperature Range: .....(Typical) -20 to 55°C (-4 to 131°F)  
FCC License .....Not Required

#### System Transmit

Type: .....Frequency Hopping Spread Spectrum (FHSS)  
Transmit Power: .....100mW Burst  
Transmission Modes: .....Continuous (Latched) or Push-to-Talk (PTT)  
Modulation Type: .....Gaussian Filtered FSK, TDMA

#### System Receive

Type: .....Frequency Hopping Spread Spectrum (FHSS)  
Sensitivity: .....<-90dBm with  $10^{-3}$  BER  
Dynamic Range: .....-90dBm to -20dBm  
Distortion: .....<2%

### Base Station Specifications

Antenna Type: .....External, Dual Diversity, ½-Wave Dipole (Supplied)  
Power Requirements: .....Six 1.5V AA Batteries or Rechargeable BAT850 Battery;  
12VDC Automotive Adapter or 100/240VAC  
Power Supply  
Size: .....10.2" x 6.45" x 3.33"  
(25.91cm x 16.38cm x 8.46cm)  
Weight: .....2.35 lb (1.07 kg) with Alkaline Batteries  
Front Panel Controls: .....Power Switch  
Register Beltpac  
Beltpac Unlatch  
Clear Registration  
Reset Button  
Front Panel Indicators: .....Beltpac Registration Status Display  
Power/Low BAT Indicator  
Beltpac Receive

### Beltpac Specifications

Battery Requirements: .....One Lithium-Ion Rechargeable  
Battery Life: .....Latched (Hands-Free): Up to 14 Hours  
PTT: Up to 20 Hours  
Size: .....3.4" x 2.6" x 1.5"  
(8.64cm x 6.60cm x 3.81cm)  
Weight: .....7.4 oz (0.21 kg) with Battery & Pouch  
Headset Connector: .....Mini-DIN  
Mic Input: .....Electret  
Headset Output: .....160 mW @ into 32Ω  
Capable of Driving 16-32Ω  
Controls: .....Volume On/Off  
Volume Up/Down  
Talk Intercom  
Talk ISO  
Indicators: .....Power/Transmit/Low Battery LED & Voice Prompts  
Carrying Pouch: .....Santoprene Rubber

## Base Station Highlights

- > **Weather-Proofed Gaskets**  
protect electronic circuits from inclement weather intrusion.
- > **Compatible with DX200 Base Station**  
enables belt-pacs to be easily interchanged between bases for better utilization of existing inventory.
- > **Digital Frequency Hopping Spread Spectrum**  
with encrypted signals secures communications so people outside the system can't hear your conversations.
- > **Dual Slot Diversity and Diversity Antennas**  
provide the strongest signal possible for clear, seamless and uninterrupted conversations.
- > **Remotely "Unlatch" Beltpacs' Transmitter**  
helps you quickly locate and stop a belt-pac that's been unintentionally left transmitting — from the convenience of your base station.

## Beltpac Highlights

- > **Super Compact Design**  
makes the belt-pac the industry's lightest, at only 7.4 ounces (0.21 kg).
- > **Rechargeable Lithium-Ion Batteries**  
provide up to 20 hours of belt-pac operation with each charge.
- > **Internal Antennas**  
are housed inside the belt-pac for extra protection and durability.
- > **Voice Prompts**  
inform users of status changes and system diagnostics through the headset, such as "low battery."
- > **Completely Sealed Buttons**  
dramatically enhance the life of the belt-pac by keeping dirt and moisture out and preventing mechanical failures.