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: . . . . .Guassian 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 inclimate weather intrusion.

> **Compatible with DX200 Base Station**
  enables beltpacs 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 beltpac the industry's lightest, at only 7.4 ounces (0.21 kg).

> **Rechargeable Lithium-Ion Batteries**
  provide up to 20 hours of beltpac operation with each charge.

> **Internal Antennas**
  are housed inside the beltpac 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.