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HME DIC200 System

Customer Driven

# Digital intercommunications just got smarter.





OSI

> 2.4 GHz license-free operation The DX200 is approved for worldwide use so you won't need to coordinate frequency operation with other wireless systems.

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## Digital frequency hopping spread spectrum (FHSS)

The DX200 incorporates FHSS with encrypted signals to secure communications so people outside of the system cannot hear your conversations.

## > Wireless ISO Channel

This feature allows beltpac users to converse with others on the same channel. ISO+ enables beltpac users to talk to those operating on a secondary base.

Now you can get a high-performing wireless intercom system with great features that won't cost you an arm and a leg. This new, digital DX200 Wireless Intercom System from HME provides crystal-clear, secure, and interferencefree communications. With its digital encryption and frequency hopping technologies, you'll never have to worry about unauthorized users hearing your communications. Diversity antennas and dual-slot diversity maximize reception of the strongest signal possible. Simple. Innovative. Expandable. The DX200 System comes complete with synthesized voice prompts, rechargeable batteries, battery charger and rugged, lightweight beltpacs for reliable and cost-effective operation. Whether it's used at professional sports events, military operations, churches, performing arts or other venues, the DX200's superior digital design and ease of operation make it the best choice in wireless intercom systems.



### BASE STATION

# Clear, Secure Communication

- Digital 2.4 GHz license-free operation in the Industrial, Scientific, and Medical (ISM) frequency band gives you exceptionally clear sound without the extra licensing costs. And you won't have to contend with the intermodulation squelch issues commonly associated with systems operating in the crowded UHF or VHF bands.
- Digital encryption and frequency hopping spread spectrum communication prevent unauthorized personnel from hearing or interrupting your operator's communication.
- Dual slot diversity transmits the audio signal twice—at different times and hop frequencies—and locates the strongest signal to ensure clear, concise, interference-free communication.
- Vertical and horizontal diversity antennas are especially designed to prevent dropouts and provide the strongest signal possible.
- Expandable system allows you to configure the DX200 to fit your communication needs. A standard DX200 System comes with a base station and four full-duplex beltpacs. If needed, you can use up to 15 beltpacs per base station. By linking additional base stations, you can easily multiply the number of beltpac users.
- Wired intercom interface supports one hardwired intercom channel using 2-wire, 4-wire, or both. The DX200 is compatible with RTS® and ClearCom® hardwired intercom systems. Using the ISO+ mode gives you an additional 4-wire intercom interface by using the AUX IN and AUX OUT connections. With this feature, your system operates as a two-channel intercom.
- **Two power source options** give you more flexibility in powering the base station. Choose from a universal AC adapter or an external DC source such as the vehicle electrical system for a more mobile operation.
- Headset interface allows the stationary base station operator direct access to the intercom, beltpacs only (ISO), or both.
- Remotely "unlatch" beltpacs from transmitting at the base to stop a rogue beltpac that's been left transmitting without having to locate the beltpac. This is very helpful if a remote user removes his beltpac and forgets to turn it off.

#### BELTPAC

# Smart, Simple Operation

- Wireless ISO allows beltpac users to converse with other users on the same channel. ISO+ enables beltpac users to communicate with those on a secondary base.
- Internal antennas are housed inside the beltpac for extra durability.
- User-friendly design with light indicators and simple controls makes the DX200 beltpac the perfect solution for fast, easy and convenient communication.
- Rechargeable lithium-ion batteries provide 20 hours of beltpac operation with each charge, extending the life of your batteries and keeping the cost of operation low.
- Voice prompts inform users of status changes and system diagnostics through the headset, such as "battery low" or "out of range."
- Party line communication allows up to four users to simultaneously communicate with each other in full-duplex mode.
- Completely sealed buttons dramatically enhance the durability of the beltpac by keeping dirt out and preventing mechanical failures.
- Super compact design makes the DX200 beltpac the industry's lightest, at only 7.4 ounces. The beltpac is ergonomically designed with completely sealed controls for easy, reliable operation. Its pliable, innovative pouch protects the beltpac from contaminants and makes removal easy.
- HS12 Headset is a headset option equipped with an omni-directional mic that provides clear sound and optimum comfort. The HS12 is super strong and lightweight for reliable, regular use.
- HS14/HS14D Headset is a headset option equipped with a directional noise-canceling mic. Can be ordered with either single or dual earpiece.
- HS4-3 Earpiece with lapel mic is a less conspicuous option for those more subtle applications.
- **Battery charger** keeps your lithium-ion beltpac batteries charged and the cost of operation low.
- Digital mic gain adjustment allows easy, tool-free adjustments.





General		
Frequency Range:	2400-2483.5 MHz	
Antenna Type:	External, Dual Diversity, fi-Wave Dipole (Supplied)	
Frequency Response:	200 Hz to 3.5 kHz	
Security:	64-Bit Encryption	
Power Requirements:	100-240 VAC, 50-60 Hz or 12-14 VDC	
Temperature Range:	(Typical) -20 to 55°C (-4 to 131°F)	
Size:	19" x 1.72" x 17.13" (1-RU) (48.26cm x 4.37cm x 43.51cm)	
Weight:	9.2 lbs (4.17 kg)	
	RJ45, 600 $\Omega$ Balanced, Level Adjustable, Simultaneous Operation with 2-Wire	
	XLR-3F & 3M, Externally-Switchable RTS® or ClearCom® Mode, 200Ω, Level Adjustable, Line Null	
	XLR-3F//" Phone Combo Jack, 600 $\Omega$ Balanced, Level Adjustable	
Auxiliary Output:	XLR-3M, 600 $\Omega$ Balanced, Level Adjustable	
Headset Connector:	Mini-DIN	
External Speaker:	1W into 8Ω	
Mic Input:Electret		
Headset Output:	250 mW into 32Ω	
	Reset/Reset Registration Key Register Beltpac Key Manual Beltpac Unlatch Key 2W/4W Select Keys AUX IN/ISO+ Enable Keys IC & ISO Receive Level Adjust IC 4W Send/Receive Level Adjusts AUX IN/OUT Level Adjusts Headset Channel Select, PTT & Volume Control Headset Mic Gain Control	
	Beltpac Registration Status Display IC/ISO Talk, 2W/4W Select, AUX IN/OUT Select LEDs IC/ISO Headset Channel Select LEDs Headset PTT LED	
	2-Wire Channel Line Null RTS®/ClearCom® Mode Switch RTS® Channel Select Switch	
FCC License:	Not Required	
Transmitter		

Type: ......Frequency Hopping Spread Spectrum (FHSS)

Transmission Modes: ......Continuous (Latched) or Push-to-Talk (PTT)

Type: ......Frequency Hopping Spread Spectrum (FHSS)

Frequency Stability: ..... Exceeds FCC/ETSI Specifications Over Temperature

Modulation Type: .....Guassian Filtered FSK, TDMA

Dynamic Range: .....-90dBm to -20dBm

Harmonics/Spurious: ..... Exceeds FCC/ETSI Specifications

General	
Frequency Range:	2400-2483.5 MHz
Antenna Type:	Internal, Dual Diversity
Frequency Response:	200 Hz to 3.5 kHz
Security:	64-Bit Encryption
Battery Requirements:	One Lithium-Ion Rechargeable
Battery Life:	Latched (Hands-Free): Up to 14 Hours PTT: Up to 20 Hours
Temperature Range:	(Typical) -20 to 55°C (-4 to 131°F)
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
FCC License:	Not Required
Transmitter	
Туре:	Frequency Hopping Spread Spectrum (FHSS)
Transmit Power:	100mW Burst
Transmission Modes:	Continuous (Latched) or Push-to-Talk (PTT)
March Index Trans	Constant Filmer J FCK TDMA

Transmit Power:
Transmission Modes:Continuous (Latched) or Push-to-Talk (PTT)
Modulation Type:Guassian Filtered FSK, TDMA
Frequency Stability: Exceeds FCC/ETSI Specifications Over Temperature
Harmonics/Spurious: Exceeds FCC/ETSI Specifications

#### Receiver

Туре:	.Frequency Hopping Spread Spectrum (FHSS)
Sensitivity:	.<-90dBm with 10 <sup>-3</sup> BER
Dynamic Range:	90dBm to -20dBm
Distortion:	.<2%

HS12, HS4-3, HS14, HS14D, and HS20-3 Headsets BAT41 Lithium-Ion Rechargeable Battery AC40 Four-Port, Quick Battery Charger; Charge Time: 2.5 to 3 Hours Beltpac Pouch 6' or 30' Antenna Extension Cable XLR to Mini-DIN Adapter (XLR-4F, 4M, and 5F)

#### Distributed by:

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#### HM Electronics, Inc.

Receiver

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