

# WIRELESS INTERCOM SYSTEMS



FLEXIBILITY



**NEW** – All DX Series products now feature *Spectrum Friendly*<sup>™</sup> technology, a unique advantage for interference-free operation in the 2.4 GHz band.

LIGHTWEIGHT

PERFORMANCE



# WIRELESS INTERCOM SYSTEMS



## LIGHTWEIGHT DX100™/DX100C™ Digital Wireless Intercom System PORTABLE DIGITAL COMMUNICATION ON THE GO COMMUNICATION



DX100 100

**Wireless Intercom System** .... 4-7  
**Accessories**..... 20-21  
**Specifications**..... 22-23

No matter how much you move, this compact portable base station will move with you. Featuring crystal clear, two-way digital communication that allows up to 15 users to speak to each other wirelessly. Better than walkie-talkies, you can communicate in hands-free mode and have private conversations on a secure channel. Frequency-Hopping Spread Spectrum (FHSS)

and encryption prevent people from eavesdropping. The base station can be powered with an AC adapter, 1.5V "AA" batteries, rechargeable batteries or 12 VDC automotive power. Available with any combination of BP200 Beltpacs, WH200 All-in-One Wireless Headsets or WS200 Wireless Speaker Stations.



## LIGHTWEIGHT DX121™ Digital Wireless Intercom System POWERFUL YET SIMPLE FLEXIBILITY



DX121 121

**Wireless Intercom System** .... 8-9  
**Accessories**..... 20-21  
**Specifications**..... 22-23

The versatile DX121 System can be plugged into the headset jack of any popular intercom station or four-wire device. Uses existing party line house wiring as a backbone to add wireless capabilities in any area of the facility. Up to eight DX121s can be used together to support multi-channel applications or remote wireless work stations.

Up to four remote COMMUNICATOR®s can be used to support various wireless intercom requirements. It features a built-in battery charger and an assignable relay closure. The DX121 is compatible with the entire DX200 series of digital wireless intercom products and accessories.

## SYSTEMS OVERVIEW



### DX200™/DX200C™ Digital Wireless Intercom System

THE MOST ADVANCED SYSTEM FOR THE MOST DEMANDING ENVIRONMENTS



DX200 200

**Wireless Intercom System** . . . 10-14  
**Accessories** . . . . . 20-21  
**Specifications** . . . . . 22-23

Big venues are a big job and this advanced, license-free 2.4 GHz system is up to the task. Frequency-Hopping Spread Spectrum (FHSS) technology provides interference-free operation for up to 15 mobile users per base. The lightweight belt-pacs and all-in-one headsets operate for up to 20 hours on a rechargeable lithium-ion battery. Non-technical staff can easily use

this system right out of the box. An interface is provided for two- and four-wire intercom systems. ISO function allows mobile users to make stage announcements or communicate on a private channel. Available with any combination of BP200 Belt-pacs, WH200 All-in-One Wireless Headsets or WS200 Wireless Speaker Stations.



### DX300/ES™ Digital Wireless Intercom System

PORTABLE MULTI-CHANNEL MOBILE COMMUNICATION



DX300/ES 300/ES

**Wireless Intercom System** . . . 15-19  
**Accessories** . . . . . 20-21  
**Specifications** . . . . . 22-23

Wireless communication reaches a new level with the flexible DX300ES multi-channel system. With wireless hands-free, two-way digital operation and the ability to access two channels of radio or intercom communication, you can tend to other tasks and never be out of communication with your crew again!

This *Spectrum Friendly™*, 2.4 GHz system supports up to 15 wireless users plus two additional users connected to the base station. Mix and match either of the two COMMUNICATOR® models including the BP300 Belt-pac or the WH300 All-in-One Wireless Headset.



# DX100/DX100C Digital Wireless Intercom System

PORTABLE DIGITAL COMMUNICATION ON THE GO

## DX 100

DX100 SYSTEM



### TYPICAL CONFIGURATION\*

- > MB100 Base Station
- > 4 BP200 Beltpacs
- > 4 BP200 Beltpac Pouches
- > 4 HS15 Headsets
- > 8 BAT41 Rechargeable Batteries  
(4 Spare Batteries Included)
- > AC40A Battery Charger

*\*Any combination of 15 COMMUNICATORS® or wireless speaker stations can be used to make up your system.*

## System Highlights

**Crystal-clear, two-way communication in a compact portable base station.** No matter how much you move, this compact portable base station will move with you. Provides crystal-clear, two-way digital communication for up to 15 simultaneous wireless users. Hands-free mode allows maximum flexibility and a secure channel ensures that private conversations stay private.

**Its portable, compact design** makes the DX100 system ideal for mobile field applications.



DX 100 100

## DX100C SYSTEM



## TYPICAL CONFIGURATION\*

- > MB100 Base Station
- > 4 WH200 All-in-One Wireless Headsets
- > 8 BAT41 Rechargeable Batteries (4 Spare Batteries Included)
- > AC40A Battery Charger

*\*Any combination of 15 COMMUNICATORS® or wireless speaker stations can be used to make up your system.*

## System Highlights

**Up to 15 COMMUNICATOR®s** can be assigned to each base station, four of which can be used in hands-free, full duplex mode.

**Digital Frequency-Hopping Spread Spectrum (FHSS)** with encryption secures communication to prevent eavesdropping.

**2.4 GHz license-free operation** is approved for worldwide use; no need to coordinate frequency operation with other wireless systems.

**Triple diversity — space, time and frequency diversity** provide redundant communication that offers the most dependable system available.

**Remotely “unlatch” COMMUNICATOR transmitters** to help you stop a COMMUNICATOR that has been unintentionally left transmitting — from the convenience of your base station. This is very helpful if a remote user removes his COMMUNICATOR and forgets to turn it off.



DX100/DX100C  
Digital Wireless Intercom System

PORTABLE DIGITAL COMMUNICATION ON THE GO

DX 100 100

WS200 WIRELESS  
SPEAKER STATION



A portable, flexible solution for situations where your production crew cannot wear a headset and for times when a temporary or remote location is used. Features include call signaling, built-in microphone, high speaker intelligibility, headset jack, mic gain, sidetone adjustments and an external speaker connector. Operates on AC power, 12 VDC or "AA" batteries.

(For more information see pg. 14)

### Base Station Highlights

**Flexible, battery-powered operation** lets you power your base four different ways:

- > Six 1.5V "AA" batteries
- > Optional rechargeable BAT850 battery
- > 12 VDC automotive adapter
- > 100-240 VAC power adapter (provided)

**Spectrum Friendly™ technology** allows users to select the 2.4 GHz operating frequency range – low band, high band or full band – in order to avoid frequency conflicts.

**Power outage backup feature** enables uninterrupted communication in the event of power loss.





WH200 All-in-One  
Wireless Headset



BP200 Beltpac

## COMMUNICATOR® Highlights

**Three COMMUNICATOR models** let you mix and match the WH200 All-in-One Wireless Headset, the BP200 Beltpac with plug-in headset and the WS200 Wireless Speaker Station.

**Internal antennas** are housed inside the COMMUNICATORS for extra durability.

**Rechargeable lithium-ion batteries** provide up to 20 hours of belt pac or all-in-one wireless headset operation with each charge. Batteries charge in less than three hours in the DX100's four-port battery charger.

**Voice prompts** inform users of status changes through the headset, such as "change battery" or "out of range."

**Super-compact design** makes the BP200 Beltpac the industry's lightest. It is ergonomically designed with sealed controls for easy, reliable operation.

**Electronic mic gain and sidetone** adjustments allow for easy, tool-free settings. Sidetone adjustment is not required on the WH200.

**Selectable momentary or latching button mode** allows better management of system resources.



# DX121 Digital Wireless Intercom System

POWERFUL YET SIMPLE

DX121 121

## System Highlights

**Headset connectivity** can be directly interfaced to most hardwired intercom headset jacks for instant wireless communication.

**Four-wire connectivity** interfaces to four-wire/matrix intercoms and radio-based communication systems. Assignable relay closure provides advanced functionality.

**Built-in battery charger** One-port battery charger charges a remote belt pac or all-in-one headset battery in under three hours.

**Spectrum Friendly™ technology** allows users to select the 2.4 GHz operating frequency range – low band, high band or full band – in order to avoid frequency conflicts.

**Digital Frequency-Hopping, Spread Spectrum (FHSS)** encryption technology ensures confidential communication. Approved for worldwide use.

**Power backup** allows a fully charged battery in the charger port to act as backup power source for up to 30 minutes.

**Assignable relay closure** provides advanced functionality when used with matrix intercoms or radio based communication systems.



## Highly Versatile System

*The DX121 can be plugged directly into the headset jack of any number of popular intercom stations or four-wire devices, such as digital matrix intercoms.*





WH200 All-in-One  
Wireless Headset



BP200 Beltpac

## COMMUNICATOR® Highlights

**Three COMMUNICATOR models** let you mix and match the WH200 All-in-One Wireless Headset, the BP200 Beltpac with headset and the WS200 Wireless Speaker Station.

**Rechargeable lithium-ion batteries** provide up to 20 hours of beltpac or all-in-one wireless headset operation with each charge. Batteries charge in less than three hours in the DX121 battery charger port.

**Voice prompts** inform users of status changes through

the headset, such as “change battery” or “out of range.”

**Super-compact design** makes the BP200 Beltpac the industry’s lightest. It is ergonomically designed with sealed controls for easy, reliable operation.

**Electronic mic gain and sidetone** adjustments allow for easy, tool-free settings. Sidetone adjustment is not required on the WH200.



# DX200/DX200C Digital Wireless Intercom System

THE MOST ADVANCED SYSTEM FOR THE MOST DEMAND

## DX 200

### DX200 SYSTEM



#### TYPICAL CONFIGURATION\*

- > BS200 Base Station
- > 4 BP200 Beltpacs
- > 4 BP200 Beltpac Pouches
- > 5 HS15 Headsets
- > 8 BAT41 Rechargeable Batteries  
(4 Spare Batteries Included)
- > AC40A Battery Charger

### DX200C SYSTEM



#### TYPICAL CONFIGURATION\*

- > BS200 Base Station
- > 1 HS15 Headset
- > 4 WH200 All-in-One  
Wireless Headsets
- > 8 BAT41 Rechargeable Batteries  
(4 Spare Batteries Included)
- > AC40A Battery Charger

\*Any combination of 15 COMMUNICATORs or wireless speaker stations can be used to make up your system.

## System Highlights

**Big venues are a big job, and this advanced, license-free system is up to the task.** Enjoy crystal-clear, interference-free communication for up to 15 mobile users. Up to 20 hours of continuous use on a rechargeable battery. Includes interface for two- and four-wire intercom systems.

### Digital 2.4 GHz Spectrum

**Friendly™ license-free operation** in the industrial, scientific and medical frequency band gives you exceptionally clear sound without licensing costs. You won't have to contend with intermodulation squelch issues commonly associated with systems operating in the crowded VHF and UHF bands.

**Up to 15 COMMUNICATOR®s** can be assigned to each base station, any four of which can be used in hands-free, full duplex mode, and a fifth when the base station headset is used.

### Digital encryption and

**FHSS technology** prevent unauthorized personnel from hearing or interrupting your communication.

### Triple diversity — space, time and frequency diversity

provide redundant communication that offers the most dependable system available. The strongest signal is selected from two dif-



## Clear, Digital Communication

*With the DX200 Digital Wireless System, you'll get exceptional sound clarity and secure, interference-free communication.*

ferent antennas, transmitted and received at two different times, on two different frequencies.

**The vertical and horizontal diversity** antenna system is specially designed to prevent dropouts and provide the strongest audio signal possible.

**Expandable system** enables up to four base stations to be used together for a total of 60 COMMUNICATORS with up to 16 in hands-free, full-duplex mode.

**Remotely “unlatch” COMMUNICATORS from transmitting** at the base to stop a rogue

COMMUNICATOR that’s been left transmitting without having to locate the beltpac.

**Wireless ISO** allows all mobile users on the same base station to converse with each other isolated from the two- or four-wire intercom channel which can be restricted to specific users.

**User-friendly light indicators** and simple controls make the COMMUNICATOR perfect for fast, convenient communication.

**Monitor speaker output** is capable of driving one watt (typical) into eight ohms.





# DX200/DX200C Digital Wireless Intercom System

THE MOST ADVANCED SYSTEM FOR THE MOST DEMANDING

# DX 200



## CL200 CALL LIGHT ACTUATOR



Now enjoy "call signaling" on any DX200 system using the CL200 in two ways: initiated from your two-wire intercom system or directly from the CL200's "CALL" button. After plugging directly into the two-wire connector of any BS200 Base Station, you can activate the high intensity "CALL" light on the WS200 Wireless Speaker Station.

## Base Station Highlights

**Wired intercom interface** supports one hardwired intercom channel using two-wire, four-wire, or both simultaneously. The base is compatible with RTS and Clear-Com/Production Intercom two-wire intercom systems. ISO+ mode gives you an additional four-wire intercom interface by using the AUX IN and AUX OUT connections.

**Two power source options** give you more flexibility in powering the base. Choose between the supplied AC adapter or an external DC source such as a vehicle electrical system for rack mounting in an ENG van.

**Headset connector** allows the stationary base station operator direct access to the IC channel, AUX IN/OUT, as well as Communicator®s. An optional six-foot extension cable provides added mobility.





WH200 All-in-One  
Wireless Headset



BP200 Beltpac

## COMMUNICATOR® Highlights

**Three COMMUNICATOR models** let you mix and match the WH200 All-in-One Wireless Headset, the BP200 Beltpac with plug-in headset and the WS200 Wireless Speaker Station.

**Internal antennas** are housed inside the COMMUNICATORS for extra durability.

**Rechargeable lithium-ion batteries** provide up to 20 hours of belt pac or all-in-one wireless headset operation with each charge. Batteries charge in less than three hours in the DX100's four-port battery charger.

**Voice prompts** inform users of status changes through the headset, such as "change battery" or "out of range."

**Super-compact design** makes the BP200 Beltpac the industry's lightest. It is ergonomically designed with sealed controls for easy, reliable operation.

**Electronic mic gain and sidetone** adjustments allow for easy, tool-free settings. Sidetone adjustment is not required on the WH200.

**Selectable momentary or latching button mode** allows better management of system resources.



# DX200 Digital Wireless Intercom System

## CL200/WS200 APPLICATION

DX 200  
200

### CL200/WS200 APPLICATION DIAGRAM



**Using the CL200 Call Light Actuator,** detect a "CALL" signal from any standard two-wire intercom to a DX200 wireless system. All wireless system COMMUNICATOR<sup>®</sup>s will be sent an audible signal that also triggers the "CALL" light on the WS200 Wireless Speaker Station. The CL200 can also be used to initiate a "CALL" signal to any connected standard two-wire intercom system.

- > Detect a "CALL" signal from a two-wire intercom
- > Send a "CALL" signal to a two-wire intercom
- > Actuates an audible "CALL" signal to all wireless COMMUNICATORs
- > Triggers the "CALL" light on the WS200 Wireless Speaker Station
- > Provides local "CALL" light confirmation at the DX200 Base Station

## DX300

# Digital Wireless Intercom System

PORTABLE MULTI-CHANNEL MOBILE COMMUNICATION

# DX 300

### DX300 SYSTEM



#### TYPICAL CONFIGURATION\*

- > MB300 Base Station
- > 3 BP300 Belt packs
- > 3 BP300 Beltpac Pouches
- > 5 HS15 Headsets
- > 4 BAT41 Rechargeable Batteries  
(1 Spare Battery Included)
- > AC40A Battery Charger
- > Travel Case

### DX300C SYSTEM



#### TYPICAL CONFIGURATION\*

- > MB300 Base Station
- > 2 HS15 Headsets
- > 3 WH300 All-in-One  
Wireless Headsets
- > 4 BAT41 Rechargeable Batteries  
(1 Spare Battery Included)
- > AC40A Battery Charger
- > Travel Case

\*Any combination of 15  
COMMUNICATORS can be  
used to make up your system.

## System Highlights

**An economical, expandable two-channel solution for sports, live events and broadcasting.**

License-free. Sets up in minutes and supports up to 15 wireless crew members at once, with up to three communicating in hands-free, full-duplex mode.

**Spectrum Friendly™ technology** allows users to select the 2.4 GHz operating frequency range – low band, high band or full band – in order to avoid frequency conflicts.

**The portable DX300** offers a flexible two-channel wireless intercom system that provides a secure battery operated system.

**Fast and simple to set up,** the DX300 travels easily from location to location. No license required.

*17 users can communicate  
on one MB300 Base Station, 15  
on wireless COMMUNICATOR®s.*







## DX300

# Digital Wireless Intercom System

PORTABLE MULTI-CHANNEL MOBILE COMMUNICATION

### **Secure, 64-bit encryption**

and digital Frequency-Hopping Spread Spectrum (FHSS) prevent interruption from other systems.

**Mix and match** traditional headsets and belt-pacs with wireless all-in-one COMMUNICATOR®s. Both units are very lightweight and comfortable to wear.

**Expandable, hands-free operation supports five production crew members in two-way conversation** — two connected to the MB300 base station and three using wireless COMMUNICATORs. The system easily expands to 20 users by adding up to three additional MB300 base stations. Multi-channel capability permits production crew members to talk

together on one channel or to split up on two separate channels.

### **COMMUNICATORs can be used even while their lithium-ion batteries are charging.**

When the low battery message is heard, simply replacing the battery in the COMMUNICATOR with a fully charged battery keeps you up-and-running for up to 20 more hours. Batteries charge in less than three hours in the DX300's four-port battery charger.

**Triple diversity — space, time and frequency diversity** provide redundant communication that offers the most dependable system available.



## DX300

# Digital Wireless Intercom System

PORTABLE MULTI-CHANNEL MOBILE COMMUNICATION

DX 300 300

### Base Station Highlights

**Triple diversity design** transmits the audio signal twice, at different times and frequencies, and selects the strongest signal from two different antennas for uninterrupted communication.

**Flexible power options** enable the MB300 Base Station to operate on 100-240 VAC, 12-14 VDC, 1.5V "AA" batteries or an optional rechargeable BAT850 battery.

**Simple system expansion** with a standard data cable enables connection of multiple MB300 Base Stations to accommodate expanding production crew requirements.

**Portable size and weight** — Designed to travel where needed, the MB300 Base Station weighs less than three lbs with battery, and measures only 8" x 8" x 3.5".

**Auxiliary Input and Output** ten-pin terminal strip connector for easy connection to four-wire intercom systems. External interface required to connect into two-wire systems.



MB300 Base Station

DX300

## Digital Wireless Intercom System

PORTABLE MULTI-CHANNEL MOBILE COMMUNICATION



*WH300 All-in-One  
Wireless Headset*



*BP300 Beltpac*

### COMMUNICATOR® Highlights

**Two COMMUNICATOR models** let you mix and match the WH300 All-in-One Wireless Headset and the BP300 Beltpac with plug-in headset.

**Internal antennas** are housed inside the COMMUNICATORs for extra durability.

**Rechargeable lithium-ion batteries** provide up to 20 hours of COMMUNICATOR operation with each charge. Batteries charge in less than three hours in the DX300's four-port battery charger.

**Voice prompts** inform users of status changes through the headset, such as "change battery" or "out of range."

**Super-compact design** makes the BP300 Beltpac the industry's lightest. They are ergonomically designed with sealed controls for easy, reliable operation.

**Electronic mic gain and sidetone** adjustments allow for easy, tool-free settings. Sidetone adjustment is not required on the WH300.

**Selectable momentary or latching button mode** allows better management of system resources.

# DX300ES Digital Wireless Intercom System

DX300 SYSTEM WITH EXTERNAL RADIO CAPABILITIES

## System Highlights

### **Dedicated channel relays —**

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

### **Fast, easy set-up for strategic relocation —**

Highly portable and very quick to set up and operate.

### **Compatible configuration —**

Easily configured to operate with almost any base radio or four-wire intercom. Available with any combination of COMMUNICATOR®s: BP300 Beltpac or the WH300 All-in-One Wireless Headset.

### **Spectrum Friendly™ —**

Frequency range can be selected for low, high or full band only, to avoid frequency conflicts.



MB300ES Base Station



# WIRELESS INTERCOM SYSTEMS



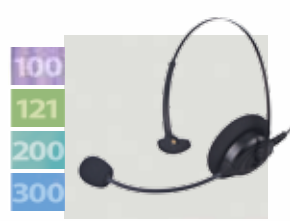
### HS15 Headset

Ultra comfortable, single-muff, over-the-ear, lightweight headset. Electret noise-canceling microphone mounted on a flexible boom which rotates for left or right side use.



### HS15D Headset

Ultra comfortable, dual-muff, over-the-ear, lightweight headset. Electret noise-canceling microphone mounted on a flexible boom which rotates for left or right side use.



### HS16 Headset

Super lightweight, single-muff headset with noise-canceling electret microphone is worn on either ear. Flexible microphone boom ensures optimal sound clarity. Adjustable stainless steel headband provides stable, comfortable fit while ensuring secure positioning of microphone boom.



### HS4-3 Earpiece & Lapel Mic

This earpiece and multi-directional electret lapel microphone combo is perfect for more discreet applications where clear, reliable communication is critical, but needs to be less conspicuous.



### MD-XLR Headset Adapter

These adapters enable headsets with dynamic mics and XLR connectors to interface with all the DX Series headset jacks. An active built-in circuit provides impedance matching and DC isolation. XLR adapters interface with 4P male, 4P female or 5P male headset connectors.



### Headset Interface Adapter

The HSI6000 allows a standard 2.5mm cell phone headset to be connected to the DX Series belt pacs.



### Headset Extension Cable

6-foot headset extension cable for all mini-DIN DX Series headset connectors.



### SP10 Base Station Monitor Speaker

Compact 8 ohm speaker that is easily connected to a BS200 Base Station or WS200 Wireless Speaker Station.



### Antenna Extension Cables

These 6-foot or 30-foot cables enhance the RF signal of DX bases installed in demanding applications. The 6-foot and 30-foot cable is ideal when antennas must be mounted remotely from the equipment rack.



### Antenna Splitter

The 2-way antenna splitter/combiner allows flexible spot coverage.



### CL200 Call Light Actuator

Used with BS200 Base Station to trigger the call light of a WS200 Wireless Speaker Station.



### Foam Ear Pads

Used on the HS16 Headsets.



# ACCESSORIES



## Base Antenna

4.7" reverse TNC base station antenna. 50 ohm omnidirectional half-wave dipole.



## Rack Mount Kit 1-RU Panel

Permits the base station antennas to be mounted on the front of the rack panel instead of the back of the base station.



## AC40A Battery Charger

Up to four BAT41 Batteries for BP200/300 Beltpacs and WH200/300 All-in-One Wireless Headsets can be charged simultaneously in less than three hours. Charger comes with a 100/240 VAC power supply.



## BAT41 Rechargeable Battery

Lithium-ion battery provides 20 hours of push-to-talk operation when used with DX Series beltpacs or all-in-one headsets.



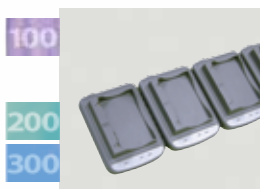
## 12VDC Power Supply

115/230 VAC universal power supply and cord for all DX Series Base Stations, AC40A Battery Charger and WS200 Wireless Speaker Station.



## Beltpac Pouch

Santoprene™ rubber protective pouch with internal clip for BP200 and BP300 Beltpacs.



## AC850 Battery Charger

This 4-port unit charges BAT850 NiMH Battery for MB Series Base Stations and WS200 Wireless Speaker Stations. Charger comes with a 100/240 VAC power supply.



## BAT850 Rechargeable Battery

A more cost-effective alternative than using six 1.5V "AA" batteries, the 7.2V 2300 mAh NiMH battery provides hours of reliable, uninterrupted operation for MB Series Base Stations and WS200 Wireless Speaker Stations.



## Travel Case

Travel case for DX300 Systems includes foam insert cutouts.



## MB300 Interconnect Cable

7-foot cable with RJ45 connectors for linking up to four MB300 Base Stations.

# WIRELESS INTERCOM SYSTEMS

System Specifications				
	DX100/DX100C	DX121/DX121C	DX200/DX200C	DX300/DX300ES
RF Frequency Range	All Band 2400-2483.5 MHz Low Band 2401.9-2439.9 MHz High Band 2443.4-2481.4 MHz	All Band 2400-2483.5 MHz Low Band 2401.9-2439.9 MHz High Band 2443.4-2481.4 MHz	All Band 2400-2483.5 MHz Low Band 2401.9-2439.9 MHz High Band 2443.4-2481.4 MHz	All Band 2400-2483.5 MHz Low Band 2401.9-2439.9 MHz High Band 2443.4-2481.4 MHz
Frequency Response	200 Hz-3.5 kHz	200 Hz-3.5 kHz	200 Hz-3.5 kHz	200 Hz-3.5 kHz
Distortion	<2%	<2%	<2%	<2%
RF Sensitivity	<-90dBm with 10 <sup>-3</sup> BER	<-90dBm with 10 <sup>-3</sup> BER	<-90dBm with 10 <sup>-3</sup> BER	<-90dBm with 10 <sup>-3</sup> BER
Temperature Range	-4 to 131°F (-20 to 55°C) Typ.	-4 to 131°F (-20 to 55°C) Typ.	-4 to 131°F (-20 to 55°C) Typ.	-4 to 131°F (-20 to 55°C) Typ.
Transmit/Receive Type	Frequency-Hopping Spread Spectrum (FHSS)	Frequency-Hopping Spread Spectrum (FHSS)	Frequency-Hopping Spread Spectrum (FHSS)	Frequency-Hopping Spread Spectrum (FHSS)
Modulation Type	Gaussian Filtered FSK, TDMA	Gaussian Filtered FSK, TDMA	Gaussian Filtered FSK, TDMA	Gaussian Filtered FSK, TDMA
Encryption	64-bit	64-bit	64-bit	64-bit

COMMUNICATOR® Specifications			
	BP200/BP300	WH200/WH300	WS200
Transmit Power	100 mW Burst	100 mW Burst	100 mW Burst
Antenna	Internal, Dual-Diversity	Internal	Internal, Dual-Diversity
Mic Input	Electret	N/A	Electret
Headset Connector	Mini-DIN	N/A	Mini-DIN
Headset Output	160 mW into 32Ω Capable of Driving 16 to 32Ω	160 mW into 32Ω	160 mW into 32Ω Capable of Driving 16 to 32Ω
Size	3.4" x 2.6" x 1.5" (8.64 cm x 6.60 cm x 3.81 cm)	N/A	10.2" x 6.45" x 3.33" (25.91 cm x 16.38 cm x 8.46 cm)
Weight	7.4 oz (0.21 kg) with Battery & Pouch	5.7 oz (0.16 kg) with Battery	2.56 lb (1.16 kg) with Battery
Power Requirements	One Lithium-Ion Rechargeable	One Lithium-Ion Rechargeable	100-240 VAC, 50-60 Hz, 12-14 VDC or Six "AA" Cells (NiMH Optional)
Battery Life	Hands-Free: Up to 14 Hrs PTT: Up to 20 Hrs	Hands-Free: Up to 14 Hrs PTT: Up to 20 Hrs	Headset Only: Up to 16 Hrs Internal Speaker Only: Up to 8 Hrs
FCC Acceptance	Part 15 (No License Required)	Part 15 (No License Required)	Part 15 (No License Required)

# SPECIFICATIONS

Base Station Specifications				
	MB100	BS121	BS200	MB300/MB300ES
Transmit Power	100 mW Burst	100 mW Burst	100 mW Burst	100 mW Burst
TX & RX Antenna Dipole	½-Wave, Dual-Diversity Dipole	½-Wave, Dual-Diversity Dipole	½-Wave, Dual-Diversity Dipole	½-Wave, Dual-Diversity Dipole
8-Wire I/O	N/A	N/A	N/A	RJ-45, 600Ω Balanced, Fixed Level
4-Wire I/O	N/A	Terminal Strip Connector, 600Ω Balanced, Level Adjustable	RJ-45, 600Ω Balanced, Level Adjustable, Simultaneous Operation with 2-Wire	N/A
2-Wire I/O	N/A	N/A	XLR-3F & 3M, Externally-Switchable RTS or ClearCom Mode, 200Ω, Null Adjustable	N/A
Headset I/O	N/A	200Ω Balanced, Level Adjustable	N/A	N/A
Relay I/O	N/A	5-Pin Terminal Strip Connector, NC, COM, NO, I.C.SEL, GND	N/A	8-Pin Terminal Strip Connector, NC, COM, NO, GND (x2) (ES only)
Auxiliary Input	N/A	N/A	XLR-3F/¼" Phone Combo Jack, 600Ω Balanced, Level Adjustable	Terminal Strip Connector, 24KΩ Balanced, Level Adjustable
Auxiliary Output	N/A	N/A	XLR-3M, 600Ω Balanced, Level Adjustable	Terminal Strip Connector, 600Ω Balanced, Level Adjustable
Mic Input	Electret	N/A	Electret	Electret (x2)
Headset Connector	N/A	N/A	Mini-DIN	Mini-DIN (x2)
Headset Output	N/A	N/A	250 mW into 32Ω	200 mW into 32Ω
Size	10.2" x 6.45" x 3.33" (25.91 cm x 16.38 cm x 8.46 cm)	1.62" x 5.50" x 7.88" (4.1 cm x 14 cm x 20 cm)	19" x 1.72" x 13.50" (1-RU) (48.26 cm x 4.37 cm x 34.29 cm)	8" x 8" x 3.5" (20.32 cm x 20.32 cm x 8.89 cm)
Weight	2.42 lb (1.1 kg) with Battery	1.2 lb (0.59 kg) with Battery	9.2 lb (4.17 kg)	2.8 lb. (1.3 kg) with Battery
Power Requirements	100-240 VAC, 50-60 Hz or 12-14 VDC or Six "AA" Cells (NiMH Optional)	100-240 VAC, 50-60 Hz or 12-14 VDC or one Lithium-Ion Rechargeable Battery	100-240 VAC, 50-60 Hz or 12-14 VDC	100-240 VAC, 50-60 Hz or 12-14 VDC or Six "AA" Cells (NiMH Optional)
Battery Life	Up to 10 Hrs	Up to 30 Min	N/A	Up to 6 Hrs (with Lithium "AA")
FCC Acceptance	Part 15 (No License Required)	Part 15 (No License Required)	Part 15 (No License Required)	Part 15 (No License Required)

## RoHS Compliance

Clear-Com fully supports the efforts of the European Union to control the use and disposal of hazardous materials and has implemented a comprehensive program which ensures all our products are compliant with the RoHS legislation.



# WIRELESS INTERCOM SYSTEMS

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