

WIRELESS INTERCOM SYSTEM WB-200 Series

WBS-200 WIRELESS BASE STATION

- DIGITAL, ENCRYPTED COMMUNICATIONS.
- LICENSE FREE FREQUENCY OPERATION.
- DIVERSITY ANTENNA SYSTEM FOR MINIMUM DROPOUTS.
- BASE STATION CAN DRIVE UP TO 20 WIRED BELTPACKS.
- LIGHTWEIGHT BELTPACKS WITH DUAL, INTERNAL ANTENNAS.
- 10 HOURS BATTERY LIFE IN FULL DUPLEX.

WBP-200 WIRELESS BELTPACK

Altair introduces the new Digital Wireless Intercom system to complete the well known E-200 intercom series, incorporating compatible functions as Call and mic facilities.

The system comprises a powered base station WBS-200 and battery powered belt packs WBP-200.

Base station is designed to operate in stand alone "Master" mode enabling full duplex clear and secure communication with up to four belt packs and the base operator in simultaneous party line mode. For large system operation, the unit can be used in "Slave" mode by wiring units across the coverage area, so expanding the number of wireless users in a cellular arrangement.

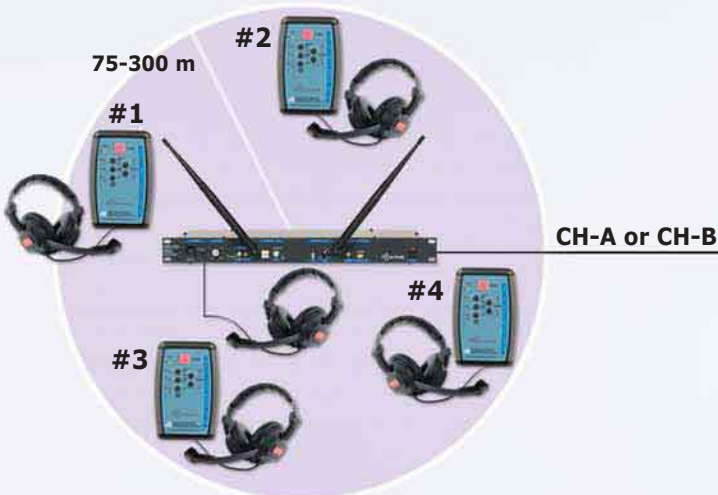
Depending of the installation, base stations can also be powered remotely from a wired EF-200 base station. The base incorporates party line outputs to drive standard EM-201 wired belt packs.

The wired connection is compatible with Espiral™, Clear-Com™ and similar compatible 2 and 4 wire systems.

WB-200 Series APPLICATION EXAMPLE

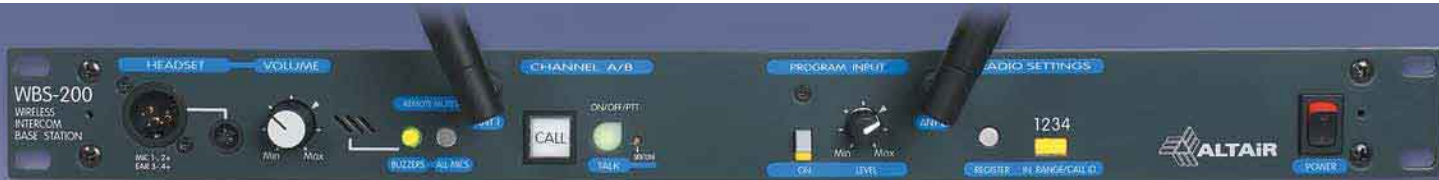
Basic Set-up. Wireless belt packs must be around the coverage area of the WBS-200.

System can be expanded with a wired intercom system, ie, EM-201 belt packs.



OPTIONAL: wired party line





WBS-200 Rear panel

TECHNICAL SPECIFICATIONS

WBS-200 WIRELESS BASE STATION

- Dual pre-amble diversity antenna system, detects and selects the higher radio signal ensuring better coverage and minimum drop-outs.
- Digital encryption process allows high security conversations.
- The base unit can be powered externally from another intercom base station or from a 12 volts battery.
- Two detachable omni antennas are provided with the unit. External high gain directive antennas can be mounted when desired to increase the coverage area.

RADIO

Frequency:

1.9 Ghz band.

Modulation:

GFSK/TDMA.

Transmit Power:

22 dBm typically.

Receive Sensitivity:

-92 dBm typically.

Number of beltpacks per base:

1 to 4 units maximum in party line full duplex conversation.

AUDIO

Party line Channels:

2 lines: A and B selectable.

Program Input:

Line or Mic level selection.

Audio Out:

Party line or Mic only selectable.

Headset type:

Selectable, dynamic or electret.

Headset connectors:

4 pin XLR male & 4 pin mini XLR.

GENERAL

Power requirements:

90 to 250 VAC / 50-60 Hz/ 10 Watt.

Dimensions/weight:

482X150 mm, 1U HE / 3 Kg.



WBP-200 WIRELESS BELTPACK

- Beltpack uses internal antennas for a more comfortable belt fitting.
- As a battery dependant device, special care has been taken as battery status indication with led bargraph, low consumption "call receive" mode and general low power circuitry.
- Out of range indication, helps the user to understand radio coverage and anticipate to possible communication failures.

Range:

Typical 50 to 350 m around base.

Battery life, estimated:

10 hours in full Duplex mode.
50 hours in Call receive mode.

Battery type:

Ni-MH. 3,6 volts pack.

Charging time:

2-3 hours. Fast charging mode.

Charger:

External case/wall mounting charger allowing 4 beltpack charging.

Headset connector:

4 pin mini XLR.

Headset type:

Selectable, dynamic or electret.

Controls:

Call.
Volume level.
Mic On/Off/PTT.
Buzz On/Off.
Vibrator On/Off.

Indicators:

Call.
Battery status, Low Batt.
Mic On/Off.
Buzz On/Off.
In Range led.

Call System:

Light, Vibration and Buzzer.



Weight:
175 gr.

Dimensions: 120x80x25 mm



WAM-100

**WAM-100 (double muff)
WAM-100/2 (single muff)**

- Closed design, unbreakable plastic.
- Noise canceling dynamic microphone.
- High acoustic isolation.
- Mini XLR 4 pin connector.

WBPC-200 WIRELESS BELTPACK CHARGER

- Worldwide voltage operation beltpack charger. One to four beltpacks can be charged simultaneously.
- Optional WBFC-200 brief case including the charger and space for 4 beltpacks for easy charging and protection.

Charging time:

2-3 hours. Fast charging mode.

Indicators:

Charging / Trickle.
Open/Short circuit warnings.

Mains Voltage/Power:

115/230 VAC / 10 VA.

Dimensions/weight:

84x55x155 mm / 650 gr.



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Specifications subject to change without previous notice.



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