

Wireless Intercom System WB-200 Series



WBS-202 DUAL CHANNEL BASE STATION



WBP-202 DUAL CHANNEL MANAGER BELTPACK

KEY FEATURES

- DIGITAL, ENCRYPTED COMMUNICATIONS
- LICENSE FREE FREQUENCY OPERATION
- DIVERSITY ANTENNA SYSTEM FOR MINIMUM DROPOUTS
- ALL IN ONE WIRELESS AND WIRED DUAL CHANNEL BASE STATION
- UP TO 8 WIRELESS BELTPACKS PLUS 20 WIRED BELTPACKS
- OPERATES WITH SINGLE WBP-200 OR DUAL CHANNEL WBP-202 BELTPACKS

The new Altaire WBS-202 wireless base station doubles the capacity of the single channel WBS-200 maintaining full compatibility. The front panel design is inspired in the very known double channel EF-200 wired intercom base station.

The unit features a complete double channel radio link with a capacity of up to 4 wireless beltpacks per channel. By the use of a single switch button, channel B is engaged to channel A allowing a total capacity of up to 8 wireless beltpacks per base station, in single channel configuration.

The new system includes a new double channel, Manager beltpack WBP-202, with channel selection, listen balance adjustment of each channel and SA, stage announce function. All this features allows great versatility to the production Manager allowing full communications capability into two separate crews.

The system comprises a powered base station WBS-202, and battery powered beltpacks WBP-200 (single channel) and/or WBP-202 (dual channel). Base station is designed to operate in stand alone or "Master" mode enabling full duplex clear and secure communications. 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.

The base incorporates two separated A/B party line outputs to drive standard EM-201 wired beltpacks, ES-200 hands free desk station, etc. The wired connection is compatible with Espiral™, Clear-Com™ and compatible 2 and 4 wire systems.

SYSTEM SPECS

- DUAL CHANNEL BELTPACK
- BELTPACK DESIGN FOR MANAGER APPLICATION
- INDIVIDUAL A/B OR COMBINED A+B LISTEN
- TALK SELECTION TO A, B OR BOTH CHANNELS
- LIGHTWEIGHT DESIGN WITH DUAL, INTERNAL ANTENNAS
- 10 HOURS BATTERY LIFE IN FULL DUPLEX
- CHARGING BY STANDARD WBPC-200 WIRELESS CHARGER
- STAGE ANNOUNCE FUNCTION, ENABLING PA MESSAGES

APPLICATION EXAMPLE SCENARIOS



Up to 8 single channel beltpacks are in the same communication channel A. The base station links and power another intercom components in both channels.



Two groups of 4 single channel beltpacks working in separate communication channels A and B. The base station links and power another intercom components in both channels.

WBS-202/WBP-200/WBP-202



*4 x In the case of using only one Manager beltpack in the system

The new Manager Beltpacks (only one per channel) selects the desired channel to listen and talk enabling better management control of the two groups of 3 single channel beltpacks and wired intercoms.



WBS-202 Rear panel

TECHNICAL SPECIFICATIONS

WBS-202 DUAL CHANNEL 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.
- Beltpacks per base capability:**
8 x WBP-200 single channel or
6 x WBP-200&2x WBP-202
dual channel.

AUDIO

- Party line Channels:**
2 Channels: A and B selectable.
- Program Input:**
Selectable Mic/Line input level.
- Audio Out:**
Party line or Mic only selectable.
- Stage Announce Out:**
Allows PA announces from mic base and from Manager beltpacks.
- 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/ 40 Watt
12 to 30 VDC / 2Amp.
- Dimensions/weight:**
482X210 mm, 1U HE / 3 Kg.
- ACCESSORIES (not included):**
WAM-100 double muf headset, mini XLR 4 pin.
WAM-100/2 single muf headset, mini XLR 4 pin.



• WBP-200 SINGLE CHANNEL BELTPACK

• WBP-202 DUAL CHANNEL MANAGER BELTPACK

- The new Manager beltpack WBP-202 allows simultaneous communication with both Channels. Selectable A, B or A&B talk, Call and listen.
- 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.

WBP-200 / WBP-202

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:
Nmh. 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.

Call System:
Light, Vibration and Buzzer.

Dimensions/weight:
120x80x25 mm / 175 gr.

Accessories (not included)
WAM-100 double muf headset, mini XLR 4 pin.
WAM-100/2 single muf headset, mini XLR 4 pin.

WBP-200



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

Indicators:
Call.
Battery status.
Mic On/Off.
Buzz On/Off.
In Range led.

WBP-202



Controls:
Call.
Volume level.
Mic On/Off/PTT.
Buzz On/Off.
Vibrator On/Off.
Channel A/B sel.
Listen A/B balance.
SA Stage Announce.

Indicators:
Call.
Battery status.
Mic On/Off.
Buzz On/Off.
In Range led.
Channel A/B sel.

WBPC-200 WIRELESS BELTPACK CHARGER



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.

- 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.

Distributed by:

Specifications subject to change without previous notice.