

# WBS-202HD Dual Channel wireless Intercom Base Station

NEW



In order to improve the audio quality of its wireless intercom systems, ALTAIR introduces two new models of wireless intercom base stations: The WBS-200HD and the **WBS-202HD**.

These new wireless intercom base stations **replace their predecessors (WBS-200 & WBS-202), keeping the compatibility with them and with all ALTAIR wireless beltacks.**

**WBS-202HD** base station offers the same features and special functions that our clients love and that turned the *WB-200 Series* into a huge commercial success, while notably improving the audio quality in the intercom line.

Two omnidirectional antennas are located on the front panel, each of them dedicated to one RADIO link (Left antenna for **RADIO 1**, right antenna for **RADIO 2**). By connecting additional antennas the user can set up a *Diversity* system for each RADIO which will ensure the best possible coverage while minimizing dropouts.

When used along with any "HD" ALTAIR beltack, the **WBS-202HD** station will deliver a **100Hz-7Khz audio quality**.

This dual-channel base station can operate with a maximum of 8 ALTAIR wireless beltacks, in two different operation modes: **A/B** or **A+B**. At the same time, the unit allows the use of up to 20 wired beltacks (*EM-201*, *EM-202*, etc.), adding flexibility to the system.

When more beltacks are needed, the unit can be used in "slave" mode by wiring base stations across the working area, expanding the number of wireless users in a cellular arrangement.



Mixed wired & wireless solution with different wireless beltack models.  
Note that WBS-200HD & WBS-202HD stations are compatible with all ALTAIR wireless beltacks.

## A/B OPERATION MODE



Dual channel beltacks can communicate with both channels, independently or simultaneously

## A+B OPERATION MODE



## TECHNICAL SPECIFICATIONS:

- Dual pre-amble *Diversity* antennas system: detects and selects the higher radio signal to ensure the best possible coverage.
- Digital encryption process allows safe private communications.
- Base station can be powered externally from another intercom station or from a 12 Volts battery.
- Two detachable antennas are provided with the unit. If necessary, additional high gain antennas can be ordered to increase the range.

### Radio:

- **Frequency:** 1.9 GHz band
- **Modulation:** GFSK/TDMA
- **Transmit Power:** 22 dBm typically
- **Receive Sensitivity:** -92 dBm typically
- **Number of wireless beltacks per base:** 1 to 8 single channel beltacks, or 6 single channel beltacks + 2 dual channel beltacks. "A/B" or "A+B" operation modes.
- **HD AUDIO:** *High Definition Audio* (100Hz - 7KHz) when used along with any "HD" wireless beltack.
- **Range:** Typical 50 to 350 m around base station

### Audio:

- **Party line channels:** 2 lines, A and B selectable
- **Program Input:** Line or Mic level (selectable)
- **Audio Out:** Party line or MIC only
- **Headset type:** Selectable, dynamic or electret
- **Headset connector:** 4pin XLR "mini" and standard size XLR4

### General:

- **Power requirements:** 90 to 250 VAC / 50-60Hz / 10 Watt
- **Dimensions/weight:** 482x150mm, 1RU Height / 3Kg
- **Compatible** with all ALTAIR beltacks and headsets

