UNIVERSAL BELTPACKS
SMART FEATURES EASY OPERATION

MEET THE FLEXIBLE FAMILY: BP-4000, BP-5000, BP-6000

RTS

CONNECTING BP-4000 / BP-5000 / BP-6000

There are multiple ways of using BP-4000 / BP-5000 / BP-6000, as shown in the scheme below.

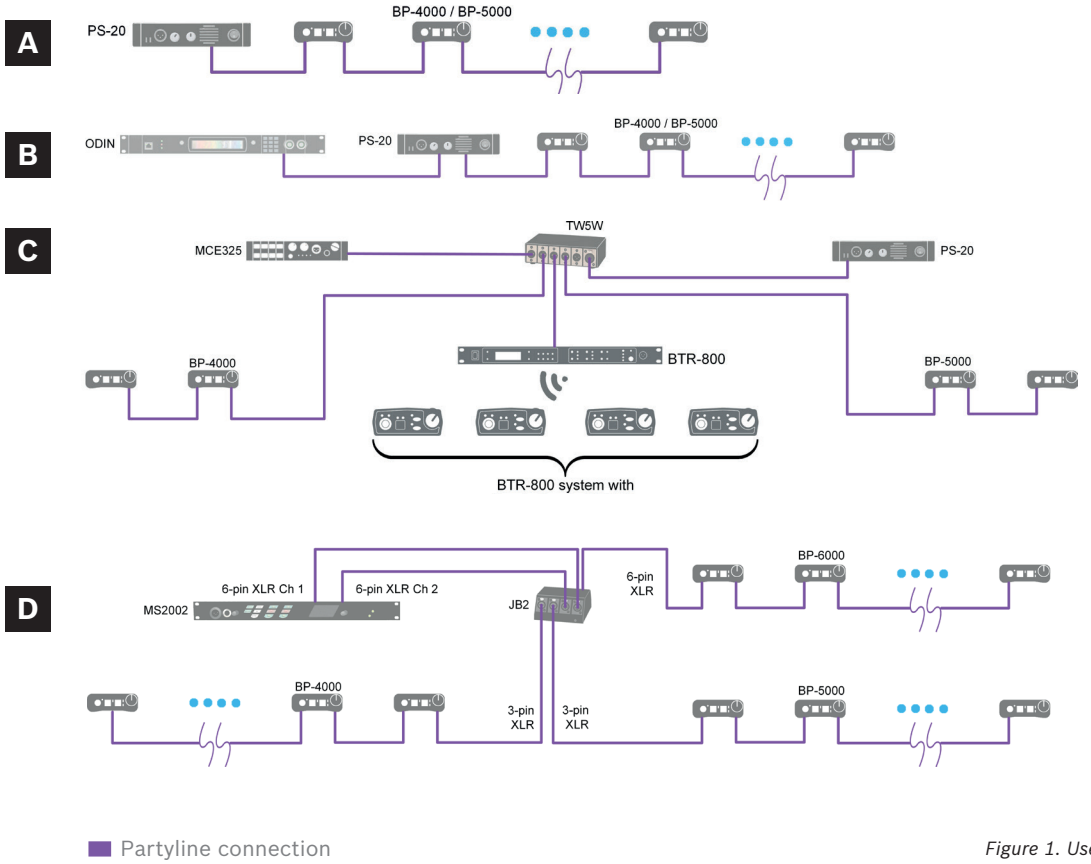

Figure 1. Use cases for Universal Beltpacks

Stand-alone Partyline system

A There is only one PS-20 needed to supply the beltpacks with power. A stand-alone partyline system is the simplest and most cost-effective way of interconnecting multiple users, where one or two channels are sufficient.

ODIN Matrix Integration

B Only one PS-20 is connected to a ODIN matrix as power supply for the beltpacks. Users connected to the matrix are now able to communicate with the partyline users vs partyline connections.

ADAM-M Matrix Integration via OMNEO

C The TW5W is used to split the partyline into five branches. Two of the branches have BP-4000 and BP-5000 and one has a BTR-800 wireless system. An MCE325 user station is also connected to the system.

D This example uses the MS2002 dual-channel user/main station with integrated power supply. Channel 1 and 2 come out on 6-pin XLRs, both of which are connected to the JB2 junction box. The junction box performs two types of conversion. First, it places Channel 1 and 2 on a single 6-pin XLR, for the BP-6000 two-channel beltpack. Second, it allows the BP-4000 and BP-5000 to be connected using 3-pin XLRs. Note the BP-5000 gets both channels.

SYSTEM CONFIGURATION

The BP-4000 and BP-5000 are capable of operating in three different modes:

- **RTS mode** – unbalanced signal, shared power and audio
- **Audiocom mode** – balanced signal, shared power and audio
- **Clear-Com mode** – unbalanced signal, separate power and audio

The BP-6000 is capable of operating in Audiocom and Clear-Com modes only.

Balanced and unbalanced refer to the type of audio signal being used for the beltpack:

- **Unbalanced audio** - ground-referenced signalling
- **Balanced audio** - differential signalling

The universal beltpacks support the following modes:

Mode	BP-4000	BP-5000	BP-6000
RTS Single-channel	✔	✔	×
RTS Dual-channel	×	✔	×
Audiocom single-channel	✔	✔	×
Audiocom dual-channel	×	×	✔
Clear-Com single channel	✔	✔	×
Clear-Com dual channel	×	×	✔

MENU SYSTEM

The universal beltpacks have multiple programming options and feature voice guidance for easy navigation. Voice prompts are spoken in English, all different menu functions explained:

- **Mode** – allows the user to select the system configuration
- **Talk Mode** – customizes the function of the talk button
- **Mic Gain** – adjusts the microphone amplifier setting
- **Sidetone Adjust** – adjusts how loud my voice is being heard in my headset
- **Incoming Call Beep** – enables or disables the call beep function
- **Channel Lock** – prevents users from listening to the wrong channel
- **Power** – to balance power draw in systems with many beltpacks
- **Send Mic Kill** – mutes all microphones on the line to prevent unwanted background noise (not available in Clear-Com mode)
- **Mic Kill** – option to ignore a Mic Kill signal from another user (not available in Clear-Com mode)
- **LEDs** – option to dim the LEDs for all applications where light may be undesirable
- **Factory Reset** – restores all settings to their factory defaults

HEADSET OPTIONS

The BP-4000 single channel beltpack is available in three headset options: 4-pin female, 5-pin female, and 4-pin male.
The BP-5000 dual channel beltpack is available in two: 4-pin female and 5-pin female.
The BP-6000 has 4-pin male headset connector only.

BP-4000 A4F

BP-4000 A4M

BP-4000 A5F

BP-5000 A4F

BP-5000 A5F

BP-6000 A4M

UNIVERSAL BELTPACKS FOR PARTY-LINE INTERCOM DEPLOYMENTS

The new partyline beltpacks are designed for professional use and the specific needs of larger broadcast productions with fixed user positions. The Universal Beltpacks allow users to cover large distances, making the partyline solution from RTS a cost-effective alternative. These devices feature a rugged, IP-53 rated housing, protecting them from dust or light rain. Both beltpacks are available for the most commonly used headset connectors. Both dynamic and electret headset microphones are supported.

RTS wired partyline technology uses smart power management. A current pump in the power supply constantly monitors the load to ensure the beltpacks receive the voltage they need.

Once plugged in, the mode-sensing feature recognizes the wiring scheme, to configure the units for either the single or dual channel RTS mode or the single channel Clear-Com or Audiocom modes. Short voice prompts help the user navigate through the menu options, eliminating the need to configure internal jumpers or switches. The devices can easily be reset to factory defaults – a handy and practical feature especially for rental houses. Enhanced talk button control now offers the choice between “always on”, “always off”, or “switching” modes.

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