

HBP-2X Beltpack

Digital Partyline Solutions

Linking
People
Together



HBP-2X

Key Features and Benefits

- 2-channel full-duplex digital partyline beltpack
- Power and audio over a single cable
- Access to any 2 of up to 12 available channels on each beltpack
- Program audio with separate program level control
- Stacked key addresses multiple channels (Software v3.0 only)
- USB flasher mode (Software v3.0 only)
- Recessed level rotary knob controls
- Pushbutton menu access
- 10-character yellow OLED label display
- USB Micro-AB port
- XLR-4M and 2.5mm TRS headset hacks
- Rugged, cast aluminum alloy casing

HelixNet is a digital partyline system with up to 24 channels of full-duplex audio and program audio over any shielded twisted-pair cable.

Description

The HBP-2X is a full-duplex 2-channel digital partyline beltpack that can carry power and audio over a single cable. Each beltpack has the ability to select up to two of any of the available channels and program feeds on the system.

Operation

The HBP-2X's menu screen allows users to independently select among and change channel assignments as necessary, from any position on the intercom line. The beltpacks can be set up in a daisy-chain or star configuration without the need for active splitter boxes. The brightness level of the OLED screen, Talk and Call buttons can be controlled from the beltpack. The OLED screen can show the level adjustment and then will revert back to the standard 2-channel screen.

Stacked Key

Multiple channels can be assigned to a key, allowing one key to address many channels with a single push. Software v3.0 is required.

Efficient Design

Made from lightweight cast aluminum alloy, the HBP-2X is built to withstand rugged environments. Three mounting options are available for the HBP-2X: sturdy beltclip, rubber feet for tabletop surface placement and an integrated strap guide for various mounting options.

USB Flasher

When a USB light is connected to the beltpack using a micro USB adapter, the beltpack can be configured to make the USB light blink or be steady on calls to assigned channels. These features are configurable either from the beltpack menus or the Core Configuration Manager (CCM). Software v3.0 and HLI-ET2 or HLI-FBS are required.

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Technical Specifications

Channels

Two intercom channels (Selectable)
Program Audio (Assignable from Main Station)

Connectors

Intercom Line: (2) 3-pin XLR-M-F
Headset: 4-pin XLR-M & 2.5mm TRS jack
USB: Micro AB

Microphone Pre-Amplifier

Headset Mic
Impedance: 200Ω (Dynamic)
Headset Mic Voltage
1.7V (Electret selectable)
Limiter: +23dB
The following specified for a route to four-wire output at 0dB out
Mic Gain: 60dB (Dynamic), 45dB (Electret)
Frequency Response: 300Hz - 10 kHz ±3dB Contoured for Intelligibility
Distortion: <0.2% THD @ 1kHz
Noise: <-55dBu (Dynamic) <-65dBu (Electret)

Headphone Amplifier

Load Impedance: >32Ω
Output Level: +12dBu before clipping
Sidetone: -12dBu (selectable)
The following specified for a route from a four-wire input at 0dBu in
Max Gain: 0dB
Frequency Response: 40Hz - 10kHz ±3dB
Distortion: <0.1% THD @ 1kHz
Noise: -65dBu
Headphone Limiter: 0dBu (selectable)

Power Requirements

4W DC Voltage Range: 30-60 volts

Environmental

Max temperature is 45°C (113°F)
0 - 90% relative humidity

Dimensions

6" H x 4" W x 1" D (152 mm x 102 mm x 25 mm)

Weight

16 oz (.454 kg)

HBP-2X Top



HBP-2X Bottom



Belpack Top Legend

1. Menu Access Key
2. Talk Key
3. Channel Call
4. Split Screen OLED Display
5. Level Controls
6. USB Micro AB Connector

Belpack Bottom Legend

1. 3-pin XLR Intercom Line In
2. 3-pin XLR Pass-through
3. Program Level Control
4. 2.5mm TRS Headset Jack
5. 4-pin XLR Headset Jack
6. XLR Lock Release

Order Code

HBP-2X

Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.



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