Linking People Together

HXII-BP

HelixNet is a digital partyline system with up to 24 channels of full-duplex audio and program audio over any PoE or single XLR cable.

Key Features and Benefits

- 2-channel full-duplex digital partyline beltpack
- Binaural listening on HXII-BP-X5 beltpacks
- Power and audio over a PoE or single XLR cable
- Access to any 2 of up to 24 available channels on each beltpack
- Stacked key addresses multiple channels
- USB flasher mode
- Program audio with separate program level control
- Recessed level rotary knob controls
- Pushbutton menu access
- 10-character yellow OLED label display
- USB Micro-AB port
- XLR-4M or XLR-5F headset jack
- Rugged, light-weight poly-carbonate casing
- IP-53 rated for dust and water ingress

Description

The HXII-BP is a full-duplex 2-channel digital partyline beltpack that can carry power and audio over a Power-over-Ethernet (PoE) or single XLR cable. Each beltpack has the ability to select up to 2 of any 24 available channels and program feed on the system with the ability to talk and/or listen on the selected channel. The user can listen via a headset and can talk via a headset mic.

Operation

The HXII-BP'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 with optional Y cable 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.

Roles

Every HelixNet device may be assigned a role, which is a pre-defined configuration of that particular device. The number of roles is virtually unlimited, so a role could be used by many devices to assure they are all configured identically, or a unique rols could be assigned to an individual for their complete ability to customize their own settings.

Multiple Channel Operation

Multiple channels can be assigned to a key, allowing one key to address many channels with a single push of a button. When using software v4.0 or higher, the HXII-BP-X5 beltpack can be configured for binaural listening. A single tap on the OPT key allows L/R ear balance adjustment.

Efficient Design

Made from light-weight poly-carbonate, the HXII-BP is built to withstand rugged environments. The sturdy beltclips on the back of the HXII-BP can be used to be worn on a belt or they can be used as feet for desktop use. The HXII-BP is IP-53 rated for dust and water ingress protection.

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). 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: 3-pin XLR–F
LAN/PoE: RJ-45 etherCON
Headset: 4-pin XLR–or 5-pin XLR-F
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 0dBu 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: <0.2% THD @ 1kHz
Noise: -65dBu
Headphone Limiter: 0dBu (selectable)

Power Requirements
4W DC Voltage Range: 30-60 volts
4W Power-over-Ethernet (PoE)

Environmental
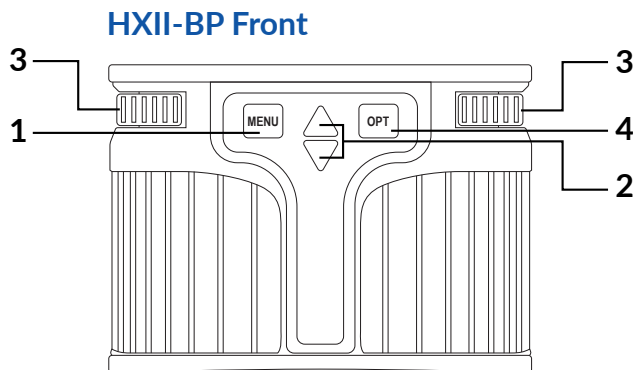32°F to +104°F (0°C to +40°C)
0 - 90% relative humidity
IP-53 rated
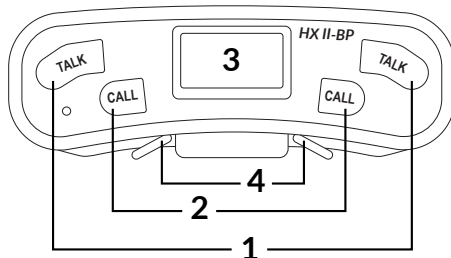
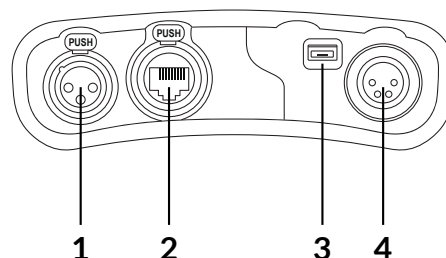### Dimensions
5.3 x 3.9 x 1.7 in (HxWxD)
(135 x 99 x 43 mm)

Weight
12.2 oz (0.35 kg)

HXII-BP Front

HXII-BP Top

HXII-BP Bottom

Legend

Beltpack Front
1. Menu Access
2. Program Level
3. Volume Level
4. Option button for Binaural Balance Adjustment (X5 only)

Beltpack Top
1. Talk Key
2. Channel Call
3. OLED Display Screen
4. Desktop Feet/Belt Clips

Beltpack Bottom
1. 3-pin XLR Intercom Line In
2. Power-over-Ethernet (PoE) Line In
3. USB Micro AB Connector
4. XLR Headset Jack
    4-pin M (X4 only)
    5-pin F (X5 only)

Order Code

HXII-BP-X4
HXII-BP-X5

For DPL daisy-chaining, the following must be ordered:
SP-2

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