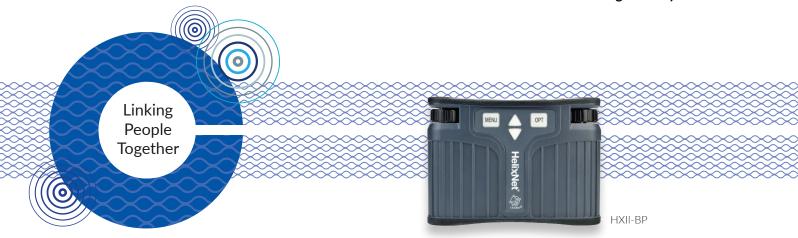
HXII-BP Beltpack

Digital Partyline Solutions



Key Features and Benefits

Beltpack

- Easy to use front panel with OLED displays
- (2) Keysets freely assignable to system channels
- Stacked keys allow unique combination of channels
- Independent Program Audio level control
- USB Call Signal Flasher
- Binaural controls on HXII-BP-X5

Connectivity

- Powerline connection via XLR cables
- Ethernet Network port with PoE

Mechanical

- Multiple mounting options
- Rugged, light-weight poly-carbonate enclosure
- IP-53

The HelixNet System

- Networked Intercom System
- · Flexible cabling.
- 12 partyline channels.
 Expandable to 24 channels via optional license
- Program Audio distribution with independent level

Effortless Management

- Easy to use CCM browser configuration tool using optional HLI-ET2
- Fast front panel control and configuration
- Plug-and-go installation with hardwire auto-discovery
- Central upgrades automatically managed from main station

HelixNet is a fully networked partyline intercom, supporting up to 24 channels and independent program audio over XLR, LAN and WAN.

Description

HelixNet's HXII-BP beltpack is a 2-channel intercom user station supported by the HMS-4X main station.

The beltpack provides two keysets assignable to any intercom channel and allows multiple channels to be uniquely stacked onto a keyset. The beltpack is provisioned with a headset connection, independent Program Audio level control and a micro-USB Flasher connection to a third-party USB light.

HXII-BP-X5 allows connection to dual ear 5-pin headsets for split-ear binaural operation, allowing the user to pan the keysets channels between left and right ears.

Local and Central Management Options

HXII-BP can be added to a HelixNet system without central configuration or interruption. Front panel allows tactile device configuration and channel assignment.

Roles can be created and applied to one or multiple HXII-BP remotely or locally. Roles can be edited locally or centrally managed from the Core Configuration Manager (CCM).

Connectivity and Power Options

HXII-BP connects to HMS-4X main station over XLR Powerline or network to HMS-4X with HLI-ET2 Ethernet module. Power is supplied to the HXII-BP over the XLR Powerline or PoE when connected over Ethernet.



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Technical Specifications Channels

Two intercom channels Program Audio

Connectors

XLR Powerline: 3-pin XLR-F LAN/PoE: RJ45 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

Route to 4-wire output at 0dBu out: **Mic Gain:** 60dB (Dynamic), 45dB (Electret) **Frequency Response:** 300Hz – 10 kHz ± **Distortion:** <0.2% THD @ 1kHz

Noise: <-55dBu (Dynamic), <-65dBu (Electret)

Headphone Amplifier

Load Impedance: $>32\Omega$

Output Level: +12dBu before clipping

Sidetone: -12dBu (selectable)

Route from a 4-wire input at 0dBu in:

Max Gain: 0dB

Frequency Response: 40Hz - 10kHz ±3dB

Distortion: <0.2% THD @ 1kHz

Noise: -65dBu

Headphone Limiter: OdBu (selectable)

Power

DC Voltage Range: 30-60 volts **Powerline:** Powered from Powerline = 1 endpoints (10 max)

IEEE 802.3af-2003 - Class 1 PSE: 4.0 W DC max @ Power Source PD: 3.84 W DC max @ Powered Device

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)

Network Specifications Network Protocols

Ethernet IPv4 – Unicast Audio and Control mDNS – Multicast Device Discovery Layer 3 routable with mDNS function

limitations

WavPack - Audio Codec

Network Ports

Unicast:

Port 80 TCP – System Management Port 6001 TCP – System Management Port 6001 UDP - Audio Streams

Multicast:

Port 5353 UDP – mDNS, Names, Discovery, Linking Optional for device names and linking

Network Parameters

Endpoint resource use: 1 (-X4 variant)

Endpoint resource use: 2 (-X5 for binaural)

Bandwidth: 300 (max) kbps from each active

audio input to HMS

1200 (max) kbps from HMS to each endpoint

QoS tags:

DSCP=46, High Priority / Expedited Forwarding (EF)

Link-Local Default IP address range: 169.254.0.0/16

System reserved IP range: 10.0.0.0/8 for endpoints

Recommended Ethernet Switches

Managed Ethernet Switch – Layer 3 100/1000 Base-T ports for endpoints 1000 Base IP Trunks between switches

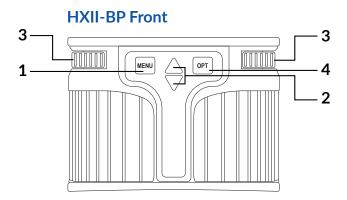
QoS configuration:

Energy Efficient Ethernet bypass option IGMP Snooping bypass option

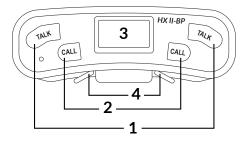


HXII-BP Beltpack

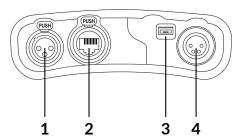
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HXII-BP Top



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 Powerline 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

www.clearcom.com