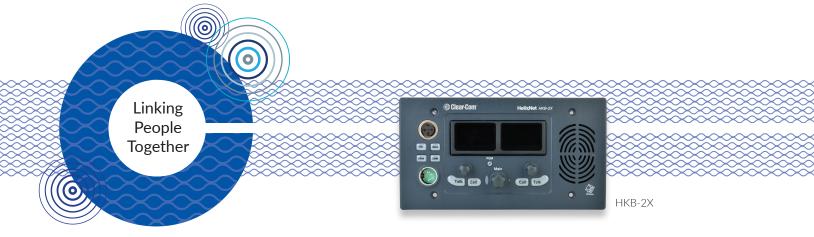
# **HKB-2X Speaker Station**

**Digital Partyline Solutions** 



### **Key Features and Benefits**

#### **Speaker Station**

- Easy to use front panel with OLED displays
- Headset or hands-free support with speaker and mic
- (2) Keysets freely assignable to system channels
- Shift page for 4-channel
- Program Audio level control
- Display swivels allows optimal viewing angles

#### Connectivity

- (1) Powerline connection via XLR cables
- (1) Ethernet Network port with PoE

#### Mechanical

- 4-gang for flush mounting
- Optional S-MOUNT for desktop use

### 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 or WAN.

## Description

HelixNet's HKB-2X remote station is a 4-gang flush-mountable user station with four channels over 2 shift pages supported by the HMS-4X main station.

## **User Station**

Innovative front panel user station provides two keysets assignable to any intercom channel to two pages the user can toggle between. The station's displays can be swiveled for optimal viewing angle. The user station is provisioned with a headset connection, gooseneck mic connector, loudspeaker and Program Audio level controls. HKB-2X can be mounted in a standard 4-gang electrical enclosure or the optional S-MOUNT multipurpose enclosure for portable and desktop applications.

## **Local and Central Management Options**

HKB-2X can be added to a HelixNet system without central configuration or interruption. Front panel keysets include unique waterfall menu allowing tactile device configuration and channel assignments. Roles can be created and applied to one or multiple HKB-2X remotely or locally. Roles can be edited locally or centrally managed from the Core Configuration Manager (CCM).

### **Connectivity and Power Options**

HKB-2X connects to HMS-4X main station over XLR Powerline or network to HMS-4X with HLI-ET2 Ethernet module. Power can be supplied to the HRM-4X over the XLR Powerline, locally with a supplied power supply with either connectivity method or Power-over-Ethernet (PoE) when connected over Ethernet.



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## **Technical Specifications**

#### **Channels**

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

#### Connectors

XLR Powerline: (2) Powerline, each with 3 pin XLR-M/F

DC and Networked Audio:

Pin 1: Ground

Pin 2: +30V DC and Audio Pin 3: -30V DC and Audio

Headset: 4-pin XLR-M

#### Microphone Pre-amplifier

Headset Mic Impedance: 200Ω (Dynamic)

Headset Mic Voltage: 1.7V (Electret selectable) Limiter: +23dB

Route to 4-wire output at OdBu out: **Mic Gain:** 60dB (Dynamic), 45dB (Electret)

Frequency Response: 300Hz - 10 kHz ± 3dB, contoured for intelligibility

#### **Headphone Amplifier**

Load Impedance:  $>32\Omega$ 

Output Level: +12dBu before clipping

Sidetone: Configurable

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

Max Gain: 0dB

Frequency Response: 40Hz - 10kHz ±3dB

 $\textbf{Distortion:} < 0.1\% \ \text{THD} \ @ \ 1 \text{kHz}$ 

Noise: -65dBu

Headphone Limiter: Configurable

### Power

#### Powerline:

Equivalent to 3 beltpacks without local DC power Equivalent to 1 beltpacks with local DC power

IEEE 802.3af-2003 - Class 0

PSE: 15.4 W DC max @ Power Source Requirement PD: 12.95 W DC max @ Powered Device Draw Powered from Powerline = 3 endpoints (10 max)

Powered from AC = 1 endpoints (10 max)

Local DC Power: 15W 48V DC

### **Environmental**

32° - +113°F (0 - +45°C) 90% relative humidity

#### Dimensions

4.5 x 8.2 x 2.4 in (HxWxD) (114 x 209 x 61 mm)

## Weight

18.8 oz (0.53 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

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:

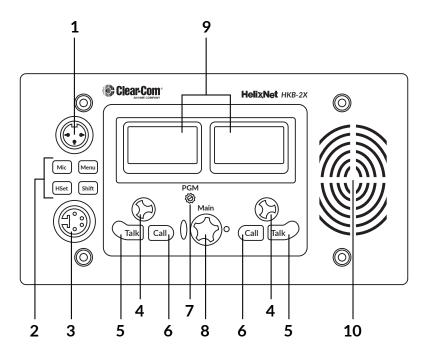
Energy Efficient Ethernet bypass option IGMP Snooping bypass option



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## **HKB-2X Front**



## Legend

#### **Front**

- 1. Gooseneck microphone connector
- 2. Configuration keys
- 3. 4-pin XLR-M headset connector
- 4. Rotary volume controls
- 5. Talk keys
- 6. Call keys
- 7. Program audio level control
- 8. Speaker/Headphone rotary control and Speaker Mute
- 9. Tilt-adjustable display screens
- 10. Loudspeaker

## **Order Code**

**HKB-2X (includes):** (4) 6-32 x 1/2" mounting screws (280038Z)

Optional Accessories (sold separately): S-MOUNT Enclosure (S-MOUNT) Wall adapter PSU 15W 48V DC (453G025) Inline PSU 15W 48V DC (453G026)



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