# **HB-702-704 Wall-Mount Remote Intercom Stations**

**Analog Partyline Systems** 



# **Key Features and Benefits**

- Selectable two- or four-channel, full-duplex communication
- Microprocessor controlled logic and switching
- Momentary/latching talk switch with LED
- Visual call signaling with bright LED indicator
- Headset connector with volume control and sidetone adjust
- Use with optional TW or 4-wire circuit boards
- · Easy installation and connection

# Clear-Com Encore® is a 2-wire analog partyline system with intuitive plug-and-play design and superior "Clear-Com Sound."

# Description

The HB-702 is a two-channel-selectable, full-duplex headset station, able to be mounted into a wall or other surface. The HB-704 is identical, but can access four channels of intercom. These headset stations are ideal for installation zin theatrical, performance, broadcast, and industrial facilities - wherever a multi-channel, full-duplex headset communications panel is desired.

Both units mount in a standard U.S. two-gang outlet box. The stations cover excellent speech intelligibility even in high noise environments. Microprocessor-controlled logic plus a set of internal and external controls allow the features of these stations to be tailored to the needs of the user. Electronic switching for the talk button, blue-color LED (on) or amber-color (o), permits momentary or latching operation. A Remote Mic Kill (RMK) signal on the intercom line will turn o the talk function if it is accidentally left on. A red-color LED tracks the incoming call signal, so it can be used for visual cueing.

An associated call button allows the user to place a call signal on the selected intercom line. The standard 4-pin XLR headset jack accommodates Clear-Com and compatible dynamic headsets. A sidetone level control adjusts the amount of the user's voice heard in the headset. An automatic limiter circuit adjusts and limits the microphone output to the intercom line. A two-position switch on the HB-702, and a four-position switch on the HB-704, allow the user to select from the attached intercom channels. Connections to the intercom lines are made via a screw-terminal block, using standard two-wire shielded mic cable.

Either of the stations may be used with the optional TW (two channels on a single mic cable) daughter board. With the TW board, the stations become plug-in compatible with a Clear-Com TW system. The HB-702 may be used with the optional 4-wire board, which creates separate send and receive circuits so that the station may be attached to ber-optic lines or other audio routing systems with 4-wire connections. The HB-702 and HB-704 are housed in a durable package with a steel front panel.



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# **Technical Specifications**

dBu is an absolute measurement. 0dBu is referenced to 0.775 volts RMS  $\,$ 

#### **Headset Microphone Input**

Input Type : Dynamic Input Impedance: >= 1K

Mic Limiter Threshold: -2dBu ± 3dB Mic Limiter Range: >= 15dB

### **Program Line Input**

Input Impedance: >= 5K

### **Headset Output**

Load Impedance: >= 8
Output Impedance: <= 25

Output Limiter Threshold: +5dBu ± 3dB Maximum Output Level before Distortion:

>= 17dBu

#### **Partyline Output**

Off Noise: < -74dBu Output Impedance: >10K

### Partyline Input

Crosstalk: < -60dB

Max level before Clipping: >= 12dBu

#### **Frequency Response**

Headset Mic - Partyline: 300 - 15kHz ± 3dB Partyline - Headset Out: 300 - 15kHz ± 3dB

#### **Max Distortion**

Headset Mic - Partyline: <= 0.5% Partyline - Headset Out: <= 0.2%

#### Noise

Headset Mic - Partyline: < -70dBu

#### May Gain

Headset Mic - Partyline: 41dB ± 2dB Partyline - Headset Out: >= 34dB

#### Power

Input Voltage Range: 20-30V DC Input Current (Idle): <= 50mA Input Current (Max): <=100mA

#### **Internal Adjustments and Connections**

Intercom Line

(HB-702/HB-704): Seven terminal connector Option Switches: Two DIP switches
Option Board Jumper: Two sets of options

jumpers

# **Front Panel Connectors**

Headset: (1) XLR-4M

#### **Front Panel Controls & Indicators**

(1) Sidetone control

(1) Talk button

(1) Call button

(1) Channel select switch

(1) Volume control

#### **Environmental**

32° - 122°F (0 - 50°C)

#### **Dimensions**

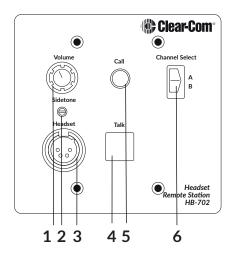
4.625 x 4.5 x 1.75in (WxHxD)

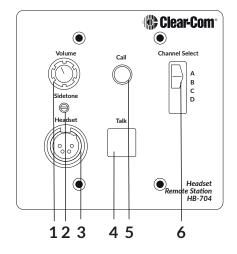
(117 x 114 x 44mm)

## Weight

0.46lbs (0.21kg)

# **Line Drawings**





# Legend

# **HB-702**

- 1. Volume control
- 2. Sidetone control
- 3. Headset connector
- 4. Talk button and light
- 5. Call button and light
- 6. Channel switch

# HB-704

- 1. Volume control
- 2. Sidetone control
- 3. Headset connector
- 4. Talk button and light
- 5. Call button and light6. Channel switch

# **Order Code**

HB-702

HB-704



