Clear Com CC-CS702

Clear Com CS-702 2-Channel Portable Headset Main Station User Manual

MODEL: CC-CS702

1. Introduction

The Clear Com CS-702 is a 2-channel portable headset main station designed for professional intercom systems. It serves as a central unit for communication, providing clear and reliable audio in various environments. This manual provides instructions for the proper setup, operation, and maintenance of your CS-702 unit.

The Clear-Com system is a closed-circuit intercom designed for high-clarity communication. A basic system comprises a power supply or main station, such as the CS-702, connected to various remote stations like beltpacks and loudspeaker stations. Clear-Com units are compatible with each other and can interface with other communication systems.

2. Key Features

- Supports up to 40 belt packs or 7 speaker stations on 2 channels.
- Automatic short-circuit protection and reset with LED indicators.
- Dual-action electronic momentary/latching "Talk" buttons.
- Channel A & B "Link" switch to operate as a one-channel system.
- Mic- or line-level program with selectable "Program Interrupt".

3. Front Panel Controls

Figure 1: Front Panel of the Clear Com CS-702 Main Station

The image above displays the front panel of the Clear Com CS-702, highlighting its various controls and connectors. These include the headset connector, channel volume controls, talk and call buttons for each channel, program input controls, and status indicators.

- **Headset Connector:** 4-pin XLR connector for connecting a headset.
- **Announce Button:** Activates the announce function (if configured in the system).
- **Channel A / Channel B Volume:** Rotary knobs to adjust the listen level for each channel.
- **Talk Buttons (A & B):** Electronic momentary/latching buttons to activate the microphone for communication on Channel A or B. Press briefly for momentary talk, press and hold for approximately one second to latch.
- **Call Buttons (A & B):** Buttons to send a call signal to all stations on Channel A or B.
- **Pgm (Program) Switch:** A three-position switch (Off, Intrpt) to control program audio.
- **Pgm Feed Level:** A small rotary control to adjust the level of the program audio feed.
- **Party Line Link:** Button to link Channel A and Channel B, allowing them to operate as a single channel.
- **Sidetone A / Sidetone B:** Small rotary controls to adjust the sidetone level for each channel, allowing the operator to hear their own voice in the headset.
- **Remote Mic Kill:** Button to remotely disable microphones on connected stations (if supported).
- **Program Volume:** Rotary knob to adjust the overall volume of the program audio.
- **Ch. A / Ch. B Indicators:** LEDs that illuminate to indicate activity or call signals on Channel A or B.
- **D.C. Short Indicator:** LED that illuminates to indicate a direct current short circuit on the intercom line.
- **Earphone Jack:** 3.5mm jack for connecting an external earphone or speaker for monitoring.

4. Setup

1. **Power Connection:** Connect the CS-702 to a suitable power source using the provided power cable.
2. **Intercom Line Connection:** Connect the CS-702 to your Clear-Com intercom system using standard intercom cabling. Ensure proper polarity and secure connections.
3. **Remote Station Connection:** Connect beltpacks, speaker stations, or other remote units to the CS-702's intercom lines. The CS-702 supports up to 40 beltpacks or 7 speaker stations across its two channels.
4. **Headset Connection:** Plug your headset into the 4-pin XLR Headset connector on the front panel.
5. **Program Input (Optional):** If using program audio, connect your audio source to the program input on the rear panel (refer to the full product diagram for exact location).

5. Operating Instructions

5.1. Monitoring Intercom Activity

Adjust the **Channel A Volume** and **Channel B Volume** knobs to set the desired listening level for each channel through your headset or external earphone. The station can monitor activity on one or both channels simultaneously.

5.2. Talking on Channels

To speak on a channel, press the corresponding **Talk** button (Channel A or Channel B). The CS-702 features a microphone preamplifier with a limiter and speech-shaping circuits for clear audio transmission.

- **Momentary Talk:** Press and release the Talk button quickly to speak momentarily.
- **Latching Talk:** Press and hold the Talk button for approximately one second until it latches. The button will illuminate dimly to indicate it is latched. Press again to unlatch.

5.3. Signaling Other Stations

To send a call signal to all stations on a specific channel, press the corresponding **Call** button (Channel A or Channel B). When a remote station sends a call signal, the CS-702's associated Talk button will illuminate brightly, attracting the operator's attention.

5.4. Program Audio Integration

If program audio is connected, use the **Program Volume** knob to adjust its overall level. The **Pgm** switch allows you to control how program audio interacts with intercom communication:

- **Off:** Program audio is disabled.
- **Intrpt (Interrupt):** Program audio is present but will be attenuated or muted when an operator speaks on the intercom.

The **Pgm Feed Level** control adjusts the level of the program audio being fed into the intercom channels.

5.5. Party Line Linking

Press the **Party Line Link** button to combine Channel A and Channel B into a single operational channel. This allows all users on both channels to communicate as if they were on one unified channel.

5.6. Sidetone Adjustment

Adjust the **Sidetone A** and **Sidetone B** controls to set the level at which you hear your own voice in your headset when speaking on Channel A or B, respectively. This helps in natural conversation flow.

5.7. Remote Mic Kill

The **Remote Mic Kill** button, if supported by connected remote stations, can be used to remotely disable microphones on those stations. This is useful for managing audio in complex setups.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Avoid abrasive cleaners or solvents.
- **Storage:** Store the unit in a cool, dry place away from direct sunlight and extreme temperatures when not in use.
- **Cable Inspection:** Regularly inspect all cables for signs of wear or damage. Replace damaged cables immediately to ensure reliable operation and safety.

- **Environmental Conditions:** Operate the unit within specified temperature and humidity ranges to prevent damage.

7. Troubleshooting

- **No Audio:**

    - Check all cable connections (power, intercom lines, headset).
    - Ensure volume controls are turned up.
    - Verify the headset is functioning correctly.

- **Cannot Talk on a Channel:**

    - Ensure the Talk button is pressed or latched.
    - Check microphone connection and functionality.

- **D.C. Short Indicator On:**

    - This indicates a short circuit on the intercom line. Disconnect remote stations one by one to identify the faulty unit or cable. The CS-702 has automatic short-circuit protection and reset.

- **Call Signal Not Working:**

    - Ensure the Call button is pressed firmly.
    - Verify that remote stations are properly connected and configured to receive call signals.
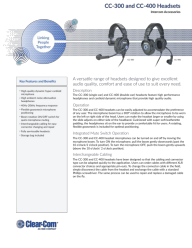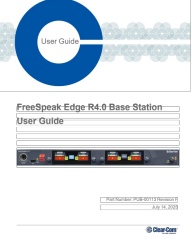
8. Specifications
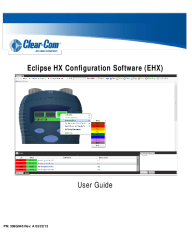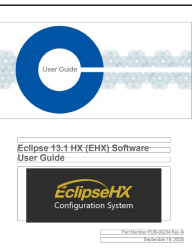
Product Dimensions	14 x 8 x 10 inches
Item Model Number	CC-CS702
Manufacturer	Clear Com
Date First Available	May 29, 2013

9. Warranty and Support

For information regarding warranty coverage, technical support, or service, please refer to the documentation provided with your purchase or visit the official Clear Com website. Contacting Clear Com directly will provide the most accurate and up-to-date support information.

Related Documents - CC-CS702

[Clear-Com CC-300 and CC-400 Intercom Headsets Datasheet](#)
Detailed information on Clear-Com's CC-300 (single-ear) and CC-400 (double-ear) intercom headsets, including key features, technical specifications, operation, and order codes for professional audio applications.

[Clear-Com FreeSpeak Edge R4.0 Base Station User Guide](#)
Comprehensive user guide for the Clear-Com FreeSpeak Edge R4.0 Base Station, detailing installation, configuration, operation, and specifications for professional intercom systems.

[FreeSpeak II 1.9 Beltpack with Bluetooth Quick Start Guide](#)
Quick start guide for Clear-Com FreeSpeak II 1.9 beltpacks, detailing Bluetooth headset pairing, enabling wireless modes, and sidetone configuration.

[Clear-Com Gen-IC Trial Quick Start Guide](#)
A concise guide to quickly register, log in, create an instance, and connect to the Clear-Com Gen-IC Cloud Intercom trial version. Learn to download and configure Station-IC and Agent-IC clients.

[Clear-Com EHX User Guide: Eclipse HX Configuration Software](#)
This user guide provides comprehensive instructions and details on configuring the Clear-Com Eclipse HX system using the EHX software. Learn about system setup, components, and advanced features for professional communication.

[Clear-Com Eclipse 13.1 HX (EHX) Software User Guide](#)
Comprehensive user guide for Clear-Com's Eclipse 13.1 HX (EHX) Configuration Software, detailing system setup, hardware configuration, panel programming, and advanced features for professional intercom systems.