Clear-Com Encore ™

CS-702 Two-Channel Main Station

CS-702 Front Panel

Monitoring System

The station can monitor intercom activity on one or both channels with individual Listen Level controls. Monitoring intercom activity is possible through a headset, or external earphone or speaker.

Talk Selection

The station contains a mic preamp with limiter and proprietary speech-shaping circuits for enhanced intelligibility. An individual electronic momentary/latching talk button is provided for each channel. These buttons light dimly when latched.

Signalling

The station provides individual Call buttons for each channel to signal all stations on the channel(s). When a remote station operator sends a Call signal, the CS-702's associated Talk button lights brightly, attracting the attention of an operator who have removed their headsets or turned off their speakers.

Remote Mic Kill (RMK)

Pressing the RMK button will turn off the microphone talk circuits of all Clear-Com beltpacks eliminating annoying noise from the open headset microphones.

Sidetone

Sidetone control allows the operator to vary the level of his or her own voice as heard in the headset. The CS-702 provides individual sidetone adjustment for each channel.

Program Input

The station accepts a balanced, mic- or line-level program signal for monitoring in the headset and/or mixing the intercom audio on either or both channels. The front panel provides a local Program Monitor volume control and individual Program Send level controls. It also provides a Program Send on/off/interrupt switch for each channel. When interrupt is selected, program is interrupted when the Talk button is pressed.

Power Supply and Supply System Protection

The CS-702 provides visual indication of power supply conditions. In the event of a DC short circuit or current overload, the station's electronic overload protection circuit will shut down the DC output to avoid damage. As soon as the fault condition is removed, the auto-reset circuitry will automatically restore system power – even under full load conditions. There is no need to disconnect stations to allow the power supply to reset.

Features:

- Supports up to 40 beltpacks or 7speaker stations on 2 channels
- Automatic short-circuit protection andreset with LED indicators
- Dual-action electronic momentary/ latching "Talk" buttons
- Mic- or line-level program with selectable "Program Interrupt"
- "Remote Mic Kill"
- Stage announce with relay
- Individual volume controls for each channel
- Front-panel headphone connector
- Channel A & B "Link" switch to operate as a one-channel system
- Front-panel speaker output
- UL approved
- LED buttons for talk, call, announce, link, all talk, or mic on.

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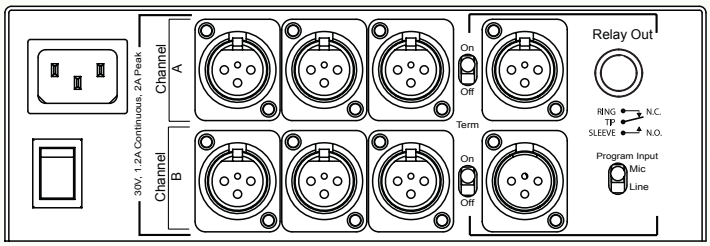

CS-702 Back Panel

Technical Specifications:

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

Headset Microphone Input

Input Type:	Dynamic
Input Impedance:	>= 1KΩ
Mic Limiter Threshold:	0dBu ± 3dB
Mic Limiter Range:	>= 15dB

Program Line Input

Maximum Level before Clipping:	>= 20dBu
Input Impedance:	>= 5KΩ

Program Mic Input

Maximum Level before Clipping :	>= -35dB
Input Impedance:	>= 1KΩ

Headset Output

Load Impedance:	>= 8Ω
Output Impedance:	<= 25Ω
Output Limiter Threshold:	+5dBu ± 3dB
Maximum Output Level before Distortion:	>= 17dBu

Party Line Output

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

Party Line Input

Crosstalk:	<-60dB
Max level before Clipping:	>= 12dBu
Sidetone Null Capability:	> 25dB

Stage Announce/Balanced Line Out

Type:	Balanced
Output Impedance:	>= 200Ω
Load Impedance:	>= 600Ω

Frequency Response

Headset Mic - Party Line :	200 - 18KHz ± 3dB
Headset Mic - Line Out:	200 - 18KHz ± 3dB
Program Input - Party Line:	200 - 20KHz ± 3dB
Program Input - Headset Out :	200 - 18KHz ± 3dB
Party Line - Headset Out :	200 - 18KHz ± 3dB

Max Distortion

Headset Mic - Party Line:	<= 0.5%
Headset Mic - Line Out:	<= 0.5%
Program Input - Party Line:	<= 0.2%
Program Input - Headset Out:	<= 0.2%
Party Line - Headset Out:	<= 0.2%

Noise

Headset Mic - Party Line:	< -70dBu
Program Input - Party Line:	< -85dBu
Program Mic - Party Line:	< -70dBu
Program Input - Headset Out:	< -60dBu
Program Mic - Headset Out:	< -40dBu
Party Line - Headset Out:	< -50dBu

Max Gain

Headset Mic - Party Line:	41dB ± 2dB
Headset Mic - Announce Out:	55dB ± 3dB
Program Input - Party Line:	>= -16dB
Program Mic - Party Line:	41dB ± 2dB
Program Input - Headset Out:	>= 18dB
Program Mic - Headset Out:	>= 70dB
Party Line - Headset Out:	>= 34dB

Mains Power

Input Voltage Range:	100 - 240 VAC
Input Frequency Range:	50 - 60 Hz
Input Power:	<= 60 VAC
Output Voltage:	30 VDC ± 0.5V
Output Current per Channel (Continuous):	1.2 A

Output Current per Channel

(Peak):	2 A (Do not exceed the 1.2A rating for more than 2 seconds per 1 minute period)
Short Circuit Recovery Time (1st short):	<= 0.5 sec
Short Circuit Recovery Time >= 20 shorts in 20sec):	<= 20 sec

Rear Panel Connectors

Intercom:	(6) XLR-3M (3 per channel)
Announce Out:	(1) XLR-3M (audio)
Announce Relay:	(1) 1/4 in. (0.64 cm) phone jack (relay)
Program:	(1) XLR-3F
AC Power:	IEC 320 connector

Rear Panel Controls

(2) Termination On-Off switches
(1) Power switch
(1) Program input Mic/Line switch

Front Panel Connectors

Panel Mic: (1) 3.5mm earphone jack
Headset: (1) XLR-4M

Front Panel Controls & Indicators

(1) Announce button
(1) Party line link button
(2) Program ON-OFF-INTERRUPT switches
(2) Program level controls
(2) Sidetone controls
(2) Talk buttons
(2) Call buttons
(1) RMK button
(1) Program volume control
(2) Listen controls
(2) Short LEDs

Environmental

32 - 122˚F (0 - 50˚C)

Dimensions

8.5 in. W x 3.0 in. H x 10.0in. D
(216 mm x 76 mm x 254 mm)

Weight

5.02 lbs. (2.28kg)

Notice About Specifications

While Clear-Com makes every attempt to maintain the accuracy of the information contained in its product manuals, that information is subject to change without notice. Performance specifications included in this manual are design-center specifications and are included for customer guidance and to facilitate system installation. Actual operating performance may vary.

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