

RM-704 Four-Channel Remote Station

Analog Partyline Solutions

Linking
People
Together



RM-704

Key Features

- Four-channel remote station
- Dual-action electronic momentary/latching Talk buttons
- Individual listen volume controls
- Balanced audio input with program interrupt (IFB)
- Call signal buttons for each channel
- Microphone limiting
- Volume controls for each channel
- Visual and audible Tone Alert signaling
- Hot mic and line-level outputs
- Built-in speaker
- External switchable line termination on each channel

Clear-Com Encore® is a 2-wire analog partyline system with intuitive plug-and-play design and superior “Clear-Com Sound” audio quality.

Description

The RM-704 is a 2RU four-channel remote station with programmable front panel buttons and individual channel volume control. The RM-704 is powered directly from the intercom line and requires no external AC power. Unlike the MS-704, the RM-704 has no power supply, circuit breaker or linking function.

Monitoring System

The RM-704 can monitor intercom activity on one or all channels with individual volume level controls. Monitoring intercom activity is possible through a headset or the internal high sensitivity loudspeaker.

Talk Selection

The RM-704 has mic pre-amps with limiters. An individual electronic momentary/latching Talk button is available for each channel. Illuminated dual-action Talk buttons light an LED dimly when latched: blue-color while in standby, amber-color when latched. The latching feature can be disabled. The channels can be accessed separately or simultaneously without tying them together. A selector switch toggles between the headset or microphone. The Talk buttons can also be controlled with a footswitch.

Announce Output

For paging, the RM-704 provides a balanced, line-level output signal to a ¼-inch TRS connector on the rear panel. The front panel Announce button activates the output and the Announce relay. The relay circuit, on a separate ¼-inch TRS connector, is typically used to mute monitors.

Call Signaling

The RM-704 has individual Call buttons with visual call signaling for each channel on the partyline. The visual signal will flash brightly and will emit an audible signal if the remote station operator holds the Call button for more than 2 seconds. The call signaling feature can be programmed to the Talk buttons.

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Program Interrupt (IFB)

The RM-704 accepts either a balanced or unbalanced line-level audio input through the DB-15 connector on the rear panel. The program can be monitored at the station or fed into another channel where it can also be set up for IFB/Program Interrupt from this or any other station.

Configuration Panel

The RM-704 has a removable front panel for easy access to the station's configuration switches and trim pots. Clearly labeled and easy to adjust, these controls allow the RM-704 to be configured quickly. When configuration is complete, the front panel can be reattached so it shows only the needed controls.

Technical Specifications

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

Panel Microphone Input

Input Type: Electret

Input Impedance: $\geq 2K$

Mic Limiter Threshold: 0dBu ± 3 dB

Mic Limiter Range: ≥ 17 dB

Program Line Input

Maximum Level before Clipping: ≥ 20 dBu

Input Impedance: $\geq 5K$

Headset Output

Load Impedance: ≥ 8 Output

Impedance: ≤ 25

Output Limiter Threshold: +5dBu ± 3 dB

Maximum Output Level Before Distortion: ≥ 17 dBu

Speaker Output

Load Impedance: ≥ 4

Max Output Level Before 1% Distortion: 20dBu ± 2 dBu

Party Line Output

Output Noise: < -74 dBu

Output Impedance: $> 10K$

Partyline Input

Crosstalk: < -60 dB

Max level Before Clipping: ≥ 12 dBu

Sidetone Null Capability: > 25 dB

Stage Announce/Balanced Line Out

Type: Balanced

Output Impedance: ≥ 200

Load Impedance: ≥ 600

IFB/Hot Mic

Type: Unbalanced

Output Impedance: 150

Impedance: ≥ 600

Frequency Response

Panel Mic - Partyline: 600 - 10kHz ± 3 dB

Headset Mic - Partyline: 200 - 12kHz ± 3 dB

Headset Mic - Line Out: 200 - 12kHz ± 3 dB

Program Input - Partyline: 100 - 17kHz ± 3 dB

Program Input - Headset Out:

200 - 10kHz ± 3 dB

Program Input - Speaker Out:

300 - 10kHz ± 3 dB

Partyline - Headset Out: 200 - 10kHz ± 3 dB

Partyline - Speaker Out: 300 - 10kHz ± 3 dB

Max Distortion

Panel Mic - Partyline: $\leq 0.5\%$

Headset Mic - Partyline: $\leq 0.5\%$

Headset Mic - Line Out: $\leq 0.5\%$

Program Input - Partyline: $\leq 0.2\%$

Program Input - Headset Out: $\leq 0.2\%$

Program Input - Speaker Out: $\leq 0.5\%$

Partyline - Headset Out: $\leq 0.2\%$

Partyline - Speaker Out: $\leq 0.5\%$

Noise

Panel Mic - Partyline: < -65 dBu

Headset Mic - Partyline: < -70 dBu

Headset Mic - Line Out: < -55 dBu

Program Input - Partyline: < -85 dBu

Program Input - Headset Out: < -60 dBu

Program Input - Speaker Out: < -60 dBu

Partyline - Headset Out: < -50 dBu

Partyline - Speaker Out: < -50 dBu

Max Gain

Panel Mic - Partyline: ≥ 37 dB

Headset Mic - Partyline: 41dB ± 2 dB

Headset Mic - Hot Mic Out: 55dB ± 3 dB

Headset Mic - Announce Out: 55dB ± 3 dB

Program Input - Partyline: ≥ -16 dB

Program Input - Headset Out: ≥ 18 dB

Program Input - Speaker Out: ≥ 24 dB

Partyline - Headset Out: ≥ 34 dB

Partyline - Speaker Out: ≥ 40 dB

Min Gain

Panel Mic - Partyline: ≤ 25 dB

DC Power

Input Voltage Range: 20-30

VDC Input Current (Idle): ≤ 165 mA

Input Current (Max): ≤ 195 mA

Environmental

32° - 122°F (0 - 50°C)

Dimensions

19 x 3.5 x 10.5in (WxHxD)

(483 x 88 x 267mm)

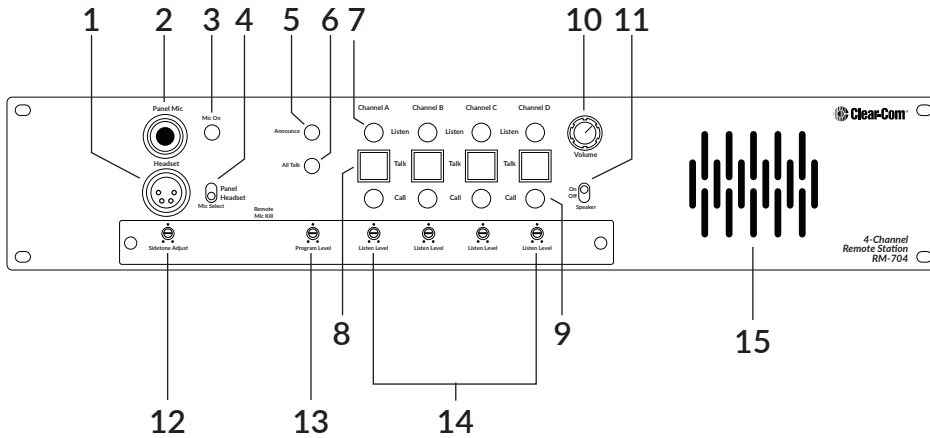
Weight

10.9lbs (4.9kg)

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RM-704 Front Panel

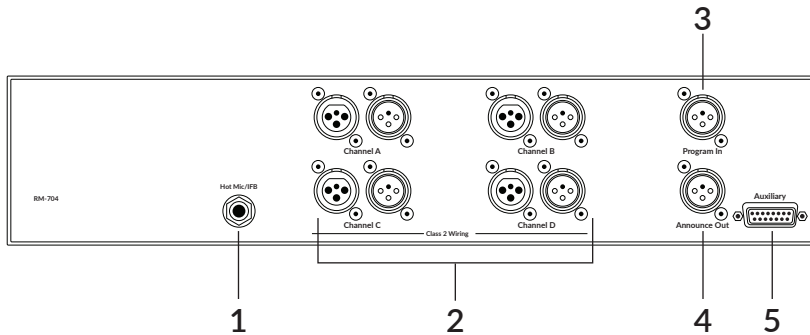


Legend

Front Panel

1. XLR-4M Headset connector
2. Mic connector
3. Mic On switch
4. Mic Select switch
5. Announce button
6. All Talk buttons
7. Listen buttons
8. Talk buttons
9. Call buttons
10. Volume control
11. Speaker On/Off switch
12. Side Tone Adjust
13. Program Level
14. Listen Level
15. Loudspeaker

RM-704 Rear Panel



Back Panel

1. Hot Mic/IFB Output
2. Channel Intercom connectors
3. Program In
4. Announce Out
5. AUX connector

Order Code

RM-704



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WARNING: Cancer and Reproductive Harm - www.P65Warnings.CA.Gov

Rev: Feb/2022