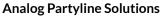
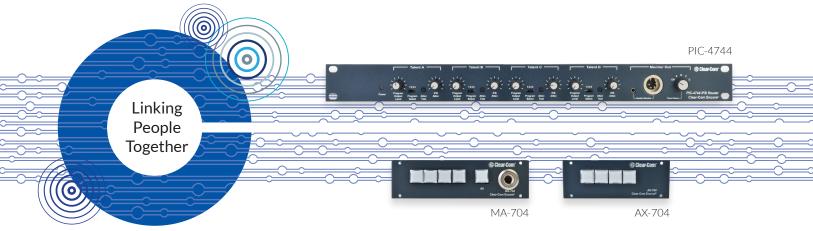
Program Interrupt and IFB System





Key Features and Benefits

- Wet/Dry switch to access 3rd party wireless IFB, console input, recording devices, etc.
- 4 separate program inputs and individual program level controls XLR cables
- Program attenuation individually adjustable for each talent output
- Compatible with all Encore main and remote stations
- Works as a standalone system or integrated with Clear-Com intercom station
- Expansion of up to 96 IFB channels between connected systems
- Modular access stations expandable in group of 4
- Up to 12 talent access buttons in 1RU
- "Tally" lights indicate IFB channels in use
- "ALL IFB" button simultaneously accesses all IFB channels

Clear-Com Encore[®] is an intuitive, robust, plug-and-play partyline intercom system with high-quality "Clear-Com Sound".

PIC-4744 IFB Router

The PIC-4744 provides four XLR3M analog partyline level audio outputs (IFB channels) and four XLR3F analog line level audio inputs (Program channels). Each IFB channel can select and place one of the four program sources to the output. A front panel variable trim pot is supplied for adjusting the source level to the output. Connections to control stations, typically used for a director to cue talent, are provided for interrupting the source input to the audio output. The PIC-4744 can interrupt the program source with variable attenuation. Each IFB channel carries a composite of three signals: the program audio, the cue audio and the dip or mute control. Multiple PIC-4744 panels can be used together if more than four audio outputs are needed.

Talent Access Stations

Each talent access station contains four momentary pushbuttons, each of which is associated with a separate talent output from a PIC-4744 Controller. All pushbuttons contain "tally" lamps to indicate IFB channels in use. An optional rack mount kit holds up to three access stations, providing control of 12 IFB channels in one rack space.

The MA-704 Master Control and Talent Access Station provides individual access to the four IFB channels. The ALL button simultaneously accesses all Talent positions of the MA-704 and each AX-704 expansion station. It contains the audio line-driver circuits for cue audio. One MS-704 is required at each talent access control location.

The AX-704 Expansion Station connects to an MA-704, expanding the IFB channel selection capabilities by four additional channels per AX-704. Multiple AX-704's may be linked together to control a maximum of 96 IFB channels.



Program Interrupt and IFB System

Analog Partyline Solutions

Technical Specifications

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

PIC-4744

Program Line Input

Maximum Level Before Clipping: >= 20dBu Input Impedance: <10kΩ

Audio

Output Level for Talent: Clear-Com Partyline Level (approx. -10dBu) PGM Source Adjustable Range: +20dBu Attenuation Adjustable Range: 50dBu

Frequency Response Panel Input – Talent: 200 – 18kHz +3dB

Max Distortion Program Input - Talent: <= 0.1%

Noise Program Input - Talent: < -85dBu

Power Input Voltage Range: 20-30V DC Input Current: <= 90mA

Rear Panel Connectors

IFB Input: (2) XLR6F-Switchcraft pin layout* Power Loop Through: (1) XLR3M, (1) XLR3F Talent Out: (4) XLR3M Program In: (4) XLR3F Wet/Dry Switch: (4)

Front Panel Controls & Indicators

Power indicator LED
Program Output level controls
Program Select input switches
Attenuation (Atten) test buttons
Attenuation (Atten) level controls
Headset Monitor ports (3.5mm and XLR)
Monitor select switch

Environmental

32° - +122°F (0° - +50°C)

Dimensions

19 x 1.75 x 7.5in (WxHxD) (483 x 44 x 190mm)

Weight 5.76lbs (2.6kg)

MA-704

Panel Microphone Input Input Type: Electret Input Impedance: >=2kΩ Mic Limiter Threshold: 0dB ± 3dB Mic Limiter Range: >= 15dB

Frequency Response

Panel Mic - Talent: 200 - 18kHz ± 3dB Extension Line - Talent: 200 - 18kHz ± 3dB

Max Distortion Panel Mic - Talent: <= 0.5% Extension Line - Talent: <= 0.1%

Noise

Panel Mic - Talent: < -65dBu Extension Line - Talent: < -85dBu

Max Gain

Panel Mic - Talent: <= 40dB Program Input - Talent: <= -45dB

Power

Input Voltage Range: 20-30V DC Input Current (Idle): <= 140mA Input Current (Max): <= 180mA

Rear Panel Connectors

IFB Input: (1) XLR6F-Switchcraft pin layout* IFB Ext.: (1) XLR6M-Switchcraft pin layout* Extension Bus Out: (1) 1/4 TRS jack External Line In: (1) 1/4 TRS jack Mic Gain: (1) Gain adjust

Requires a cable with 4 shielded pairs.

Front Panel Controls & Indicators

(5) Talk buttons (1) 1/4 Threaded TRS Microphone Socket

Environmental 32° - +122°F (0° - +50°C)

Dimensions

6.3 x 1.75 x 5.5in (WxHxD) (160 x 44 x 140mm)

Weight

1.71lbs (0.78kg)

AX-704

Frequency Response Extension Line - Talent: 200 - 18kHz ± 3dB Max Distortion Extension Line - Talent: <= 0.1%

Noise

Extension Line - Talent: < -85dBu

Power

Input Voltage Range: 20-30V DC Input Current (Idle) : <= 120mA Input Current (Max): <= 150mA

Rear Panel Connectors

IFB Input: (1) XLR6F-Switchcraft pin layout* IFB Ext.: (1) XLR6M-Switchcraft pin layout* Extension Bus Out: (1) 1/4 TRS jack socket External Line In: (1) 1/4 TRS jack socket

Requires a cable with 4 shielded pairs.

Front Panel Controls & Indicators (4) Talk buttons

Environmental

32° - +122°F (0° - +50°C)

Dimensions

4.9 x 1.75 x 5.5in (WxHxD) (125 x 44 x 140mm)

Weight 1.35lbs (0.61kg)

*IMPORTANT: XLR Connector Compatibility

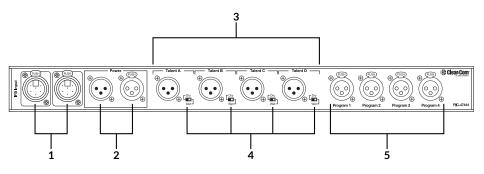
Clear-Com products featuring 6-pin XLR connectors utilize the Switchcraft XLR pin layout. Compatible connectors are available from manufacturers, such as Switchcraft and Neautrik, yet compatibility must be verified. Neutrik 6-pin XLR connectors must include "S" in the part number to ensure compatibility.



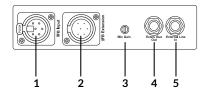
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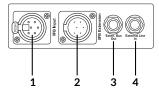
PIC-4744 Back Panel



MA-704 Back Panel



AX-704 Back Panel



Legend

PIC-4744 Back

- 1. IFB Talent Access Station output
- 2. Power
- 3. Output to Talent receiver (A D)
- 4. Wet/Dry switch
- 5. Program input (1 4)

MA-704 Back

- 1. IFB Access Station input
- 2. IFB Talent Access Station extension output
- 3. Mic Gain adjust
- 4. Hot Mic Extension output
- 5. Hot Mic input

AX-704 Back

- 1. IFB Access Station input
- 2. IFB Talent Access Station extension output
- 3. Hot Mic extension output
- 4. Hot Mic input

Order Codes

PIC-4744: IFB Router

MA-704: Master Control and Talent Access Station

AX-704: Talent Access Expansion Station

CEP-RK: Optional rackmount kit for the MA-704 and AX-704

IC-25-6: IFB Control Cable - 25ft/7,5m

IC-50-6: IFB Control Cable - 50ft/15m

IC-100-6: IFB Control Cable - 100ft/30m

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