

Convention Center Applications

- *4-input microphone or line automatic mixer*
- *Designed to mount remotely in Exhibit Hall, Ballroom, or Meeting rooms*
- *Mounts to standard IED wall box, or can be attached to custom wall plate or available as rack mount*
- *Design eliminates costly home-run wiring of microphone and line inputs back to system headend or local node*
- *Phantom powered and controlled by Cresnet™ data and power network*
- *Accompanying 1000RC remote controller for:*
 - *Music selection*
 - *Music/Speech Volume*
 - *Mic/line input setup*
- *Mixer and touchscreen volume controller use same data and power network*
- *Easy to install*
- *Removable Phoenix™ connectors for each audio input and network connection*
- *Dual long line output drivers*



4000RCM Remote Controlled Mixer
Wall Mount Version, Rear View showing connectors

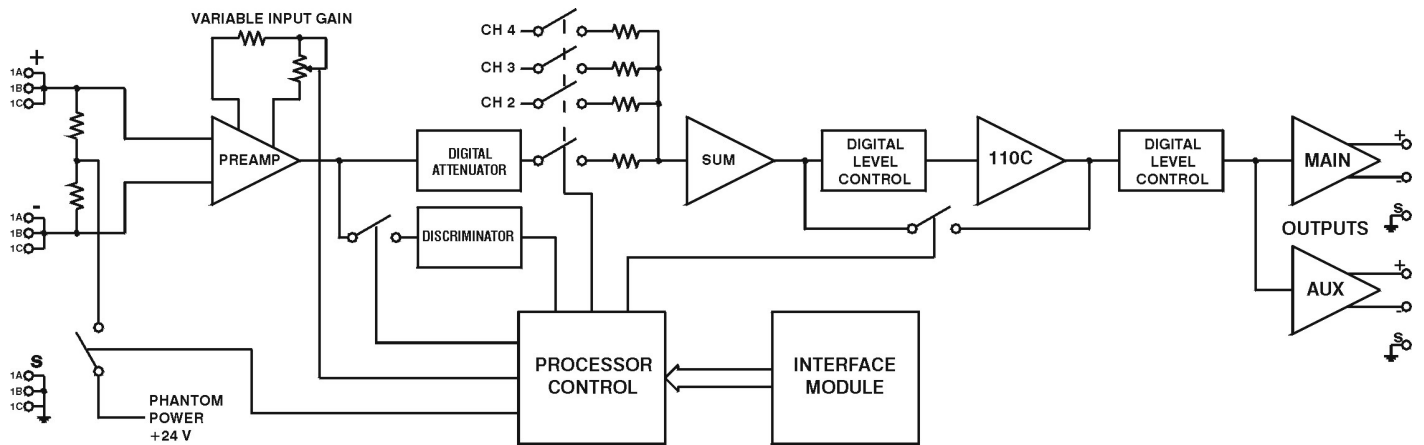
The 4000RCM Remote Controlled Mixer is a 4-input mixer specifically designed for the Hotel, Convention Center and Conference Center markets. The 4000RCM is designed to be wall mounted in Exhibit Halls, Ballrooms, Meeting Rooms or other meeting spaces. By mounting the mixer in the room, the overall cable requirements may be significantly reduced, thereby eliminating a large portion of the cable costs as well as the audio interference problems and signal degradation that are sometimes associated with long runs of low level microphone signals.

The 4000RCM is easy to install and can be mounted to the mating 4000BB Backbox, or attached to a contractor-fabricated wall plate. It may also be rack mounted using the 4012M Mainframe. The mixer provides two discrete outputs using IED's standard low impedance line drivers for interfacing back to a head end 3200 Series Digital Signal Processing System.

The 4000RCM is another IED product using the Cresnet™ data/power network. This network will power both the 4000RCM and the accompanying IED 1000RC Touchscreen Remote Controllers. The touchscreen controllers which are available in either black and white or color, provide the end-user interface for music/speech volume and selection, and provide the technical interface to the mixer for typical input microphone and line level settings. Using the network, additional control features can be added to the system, including Crestron's e-control™ ethernet control system.

The 4000RCM is a versatile tool to handle your Hotel and Convention Center audio needs. Welcome to the new era in audio communications, from the industry leaders at IED!

Created, Developed, and Supported by IED



4000RCM Conceptual Block Diagram
for one typical channel

ELECTRICAL SPECIFICATIONS

Number of inputs	4
All inputs are gated and balanced	
Number of Outputs	2
All outputs are balanced	
Input Impedance, Z_{IN}	<10 k Ω
Output Impedance, Z_{OUT}	<1 Ω
Main and Aux	
Maximum Output Level	+24 dBu
Main and Aux	
Frequency Response	+0, -0.1 dB
20 Hz - 20 kHz	
Total Harmonic Distortion, THD	<0.01 %
20 Hz - 20 kHz	
Noise Referred to the Input, NRI	<-129 dB
22 Hz - 22 kHz filters, 50 Ω source	
Signal to Noise Ratio, S/N	>101 dB
Below full output, $Z_S = 50 \Omega$, 20 Hz - 20 kHz	
Feedback Prevention	3 dB
Main Output	
Gated Input Attack Time	25 μ Sec - 25 mSec
$\frac{1}{2}$ wave, 20 Hz - 20 kHz, after signal exceeds threshold	
Gated Input Release Time	0.5 - 8 Sec
Pot adjustable, factory set at 2.5 Sec	

COMMUNICATIONS, CONNECTIONS, AND INDICATORS

Cresnet™ Communicators	10 Watts Power Factor
24 VDC/RS485	
Connections for each of 4 audio inputs and Cresnet™ Communications	3 removable Phoenix™ mini connectors
Connections for each of 2 audio outputs	3 removable Phoenix™ mini connectors
Front Panel Indicators	
Power On	Green
Data	Red

MECHANICAL

4000BB	10" W x 12" H x 4" D
Mating Backbox	

Preliminary specifications are subject to change

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