CXM2000 Cinema Monitor and Crossover

Movies have become integrated into our lives in many ways. The movie theater has become the center of our social community and our memories. They have been transformed from a single screen to a multi-screen complex. Maintaining the smooth operation of all the systems has become demanding. Every movie theater needs to provide the audience with a seamless experience on each visit to create loyal customers. Crown now introduces CXM2000, a device used to ensure that every customer leaves the theater with a smile (or a tear if it is a French movie).

Crown® CXM2000 is a Cinema Monitor and Crossover System. With the CXM2000, audiences can enjoy wonderful sound from JBL cinema speakers. It also allows for either processor input signal or amplifier output signal monitoring, which immediately indicates when a signal path has a problem. All necessary controls for daily operation of the CXM2000 are easily accessible on the front panel. This device will significantly improve the speaker audio performance and offer peace of mind in the operation of a theater system.

Features

- Built-in speaker monitors the processor input and amplifiers output signals[1].

- Onboard JBL cinema speaker parameters include crossover, EQ filters, delay, and more to enhance speaker's performance.

- Fault detection indicates faults on the front panel and sends alarm signals to Theater Management System (TMS)[2].

- Total solution designed to work with JBL passive and bi-amplified cinema speakers in systems using Crown DSi and XLC amplifiers.

- Lit buttons offer easy operation in dark rooms.

- HD-25 connectors and HD-15 connectors for quick and hassle-free connectivity.

- Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications.

Front Panel Controls and Indicators

Internal Speaker: Plays back the audio, triggered by the activated Channel Button.

CP (Cinema Processor) Button: Switches the monitor signals from processor or amplifier.
- Dim green: monitor the audio output from amplifier.
- Bright green: monitor the audio input from cinema processor.

7.1 Button: Switches according to the audio source format.
- Dim green: for 5.1 channel format of audio source in 7.1 channel installation system.
- Bright green: for 7.1 channel format of audio source in 7.1 channel installation system.
- No light: for 5.1 or 7.1 channel format of audio source in 5.1 channel installation system.
- 5.1 channel installation system includes left, right, center, left surround and right surround channel speakers, and low frequency effect channel.
- 7.1 channel installation system includes left, right, center, left surround, right surround, back surround left and back surround right channel speakers, and low frequency effect channel.

Volume Indicators: Indicates current volume level. The higher numbers of indicator light up represent the higher volume level of the built-in monitor speaker.

Volume Control Knob: Adjusts the monitor volume of CXM2000 internal speaker.

Channel Buttons: Select to monitor each available channel of the installation system.
- L: Left Channel
- R: Right Channel
- C: Center Channel
- Ls: Left Surround Channel
- Rs: Right Surround Channel
- Bsl: Back Surround Left Channel
- Bsr: Back Surround Right Channel
- SW1/SW2: Low Frequency Effect Channel

- Dim green: the channel is available for monitoring.
- Bright green: the channel is being monitored through the internal speaker of the CXM2000.
- Solid red: the channel has fault.
- Solid orange: the channel has fault and is being monitored.
- No light: the channel is not connected into the installation system.

Power Switch
On/Off switch applies AC power to the CXM2000.

Rear Panel
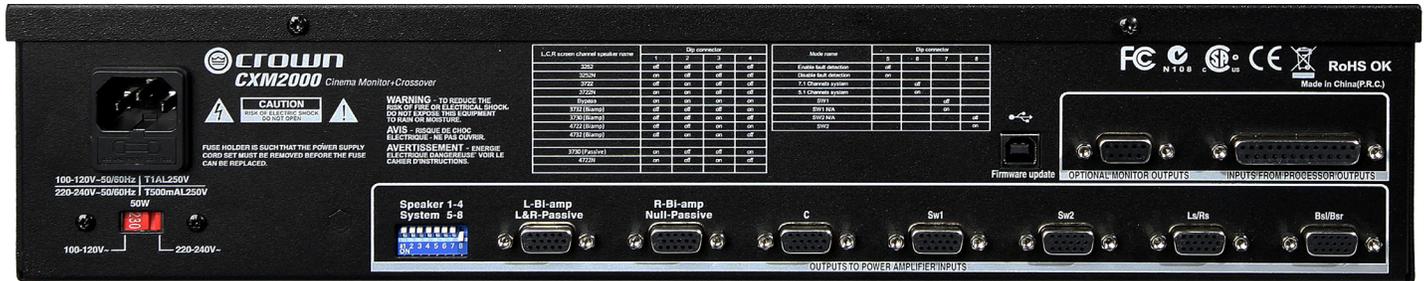
Rear Panel Connectors

AC Power Inlet: Connects to 100V~120V or 220V~240V, 50Hz/60Hz AC power supply.

Power Voltage Switch: Select the power supply voltage to be 100V~120V or 220V~240V.

USB Connector: Connects for firmware update only.

8-way DIP Switches: Switches 1~4 are for JBL cinema speaker selection. Switch 5 is for fault detection. Switch 6 is for 5.1 or 7.1 channel installation system selection. Switches 7 and 8 are for monitor and fault detection functions of subwoofer 1 and 2.

Output Connectors: Connects the HD-15 connectors to the Crown DSi series or XLC series amplifiers through VGA cables. This allows the CXM2000 to send and receive signals from the amplifiers for fault detection and monitor function.

L-Bi-amp: Connects to the amplifier of left channel (bi-amp speaker) or left and right channels (passive speaker).

R-Bi-amp: Connects to the amplifier of right channel (bi-amp speaker).

C: Connects to the amplifier of center channel.

SW1: Connects to the amplifier of low frequency effect channel (subwoofer 1).

SW2: Connects to the amplifier of low frequency effect channel (subwoofer 2).

Ls/Rs: Connects to the amplifier of left surround & right surround channels.

Bsl/Bsr: Connects to the amplifier of back surround left & back surround right channels.

Input Connector: Connects the HD-25 connector to the main outputs of the cinema processor.

RS232 Connectors: Connects the RS232 connector to the Theater Management System (TMS) for sending fault detection results.

Power Consumption	100V ~120V / 220V ~ 240V, 50Hz / 60 Hz, 50W
Processor Input Channels:	8 inputs (Left, Center, Right, Surround Left, Surround Right, Back Surround Left, Back Surround Right, Subwoofer).
Input Impedance (Processor Inputs)	>10k Ω
Input Impedance (Power Amplifier Inputs)	>10k Ω
Signal to Noise Ratio	104 dB (A weighted)
Crosstalk	> 80 dB (A weighted)
Internal Monitor Speaker Power	8W
DSP Section	DSP only for Left, Right and Center channel speakers
Input EQ	High and low shelving filters
Output EQ	8 parametric filters per channel
Delay	Up to 10 msec total delay per channel
Presets	11 presets. One is " bypass". Ten are factory-set for JBL cinema systems.
Operating Temperature	32°F to 104°F (0°C to 40 °C) 95% relative humidity (non-condensing)
Dimension (L x D x H)	18.97" X 8.26" X 3.46" (482 mm X 210 mm X 88 mm)
Net Weight	10.47 lbs (4.75 Kg)
Net Shipping Weight	13.34 lbs (6.05 Kg)

Crown's Three-Year, No-Fault, Fully Transferable Warranty

Crown offers a Three-Year, No-Fault, Fully Transferable Warranty for every new Crown amplifier—an unsurpassed industry standard. With this unprecedented No-Fault protection, your new Crown amplifier is warranted to meet or exceed original specifications for the first three years of ownership. During this time, if your amplifier fails, or does not perform to original specifications, it will be repaired or replaced at our expense. About the only things not covered by this warranty are those losses normally covered by insurance and those caused by intentional abuse. And the coverage is transferable, should you sell your amplifier. See your authorized Crown dealer for full warranty disclosure and details.

For customers outside of the USA, please contact your authorized Crown distributor for warranty information or call 574-294-8200.