

CPi2000

CINEMA PROCESSOR



HIGHLIGHTS

Built-in Crossover

Converts up to 7.1 channel audio to passive, bi-amp or tri-amp

Supports TMS Communication

Convenient for remote control and saves system operation cost

JBL Cinema Speaker Presets

Reduces tuning time

Specifically-designed GUI Software

Makes operation intuitive and simple

Large LCD Display

System status at one glance

USB Connector

For preset file import and export

DESCRIPTIONS

CPi2000 is a professional-grade processor developed by JBL to provide audio enhancement and volume control for cinemas. It features DSP processing, room EQ tuning, volume control and system fault detection and can be configured through a tailor-designed GUI software.

CPi2000 offers four input options – Analog Input, Digital Input, Non-Sync Input and mono Mic Input. The Analog Input and Digital Input accept audio signal from any cinema server. Non-Sync Input receives line level stereo signal from a CD or DVD player for background music playback. Mic Input normally connects to a RTA microphone for room tuning.

CPi2000 installs ten (10) HD-15 Analog Output connectors for passive, bi-amp or tri-amp connection and a 25-pin Analog Output connector for connection with a third-party audio system. Its Redundant Output (work together with Analog Input) connector will bypass the CPi2000 system and directly output audio signals while power failure occurs.

The large LCD display on the front panel is easy for technicians to run a quick check of system status. To make global output volume control easy and quick, the volume knob is designed front accessible. Thanks to the specially-designed GUI software, setting up cinema audio system now becomes less demanding.

CPi2000 provides a 1/3 octave GEQ for room tuning via the GUI software and is built-in with a list of variable crossover presets to accept a wide range of cinema speakers.

Designed to use with CROWN cinema amplifiers and JBL cinema speakers, CPi2000 is able to detect faults of amplifiers or speakers and send the fault information to a TMS or a 3rd party control system via its RJ45 connector.



GUI software

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FRONT PANEL CONTROLS



- **LCD Display:** The display is 320x160 pixels. When the unit is powered on, the home screen shows the hall name, IP address and the global output volume.
- **Menu Button:** By pressing the button, the LCD display will navigate to the menu section. Using the Volume/Edit Encoder, the following parameters can be checked or edited: INPUT LEVEL, OUTPUT LEVEL, IP ADDRESS, 5.1/7.1 INPUT, FAULT DETECTION, USB IMPORT/EXPORT, etc.
- **Analog Input Button:** Press the button to choose signal from the Analog Input Connector.
- **Mic Input Button:** Press the button to choose signal from the Mic Input Connector.
- **Digital Input Button:** Press the button to choose signal from the Digital Input Connector.
- **Music (Non-Sync) Input Button:** Press the button to choose signal from the Music (Non-Sync) Input.
- **Power Button:** Press the button to switch on or off the unit.
- **Mute Button:** Press the button to mute or unmute the global output.
- **Volume/Edit Encoder:** Supports long-press, short-press and rotating actions and can be used to unlock front panel controls, set the global output volume, and navigate through menu screens or edit parameters.

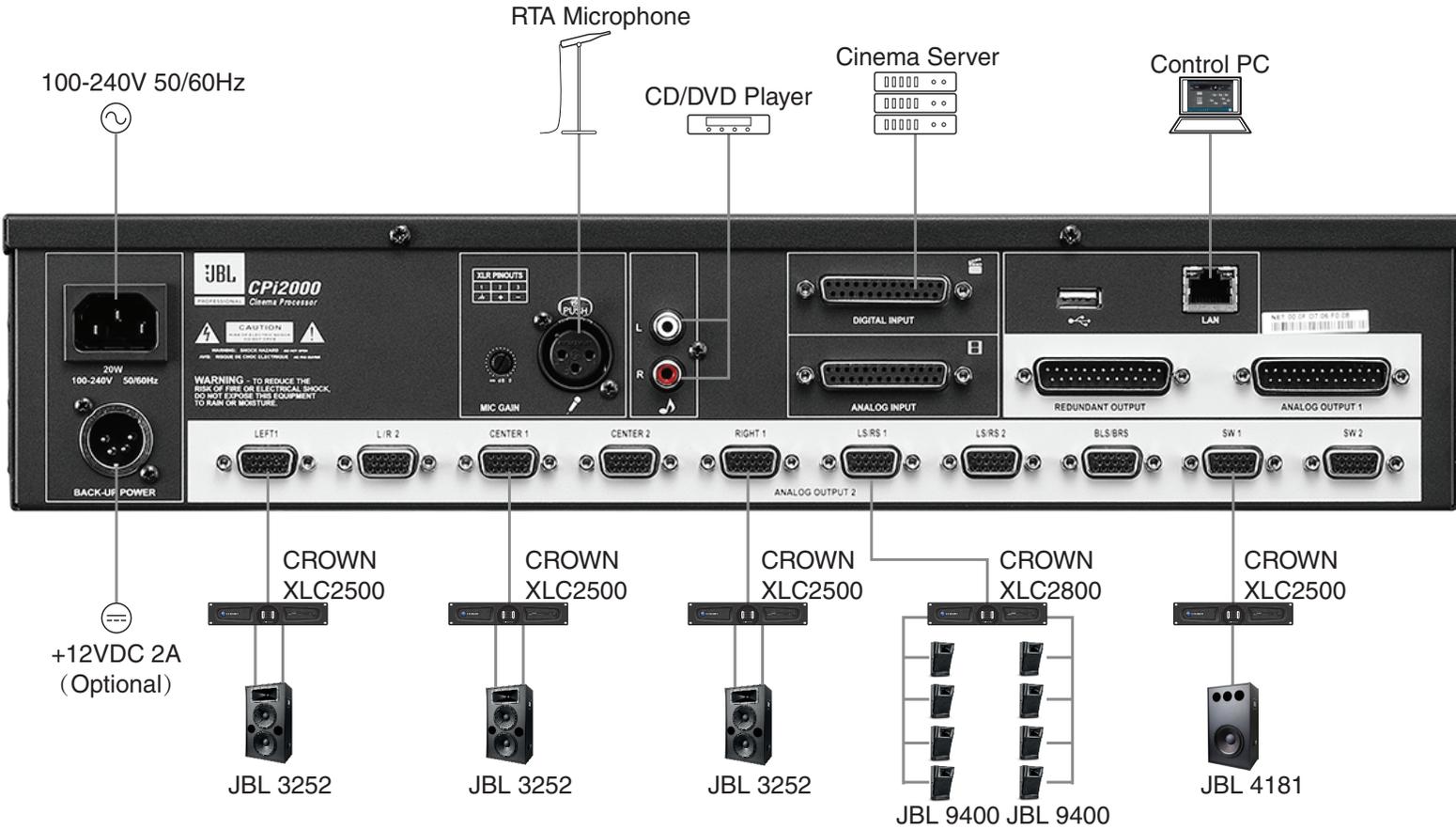
REAR PANEL CONTROLS



- **AC Power Input:** Accepts mains power of 100-240 VAC, 50-60Hz, 20W.
- **Mic Input:** Uses a XLR connector to accept balanced or unbalanced signal with adjustable gain of $-\infty$ dB - 40 dB. +12V phantom power is available. It normally connects to a RTA microphone for room tuning.
- **Music (Non-Sync) Input:** Uses RCA L-R connectors to accept stereo signal from a CD or DVD player.
- **Digital Input:** Uses a female HD-25 connector to connect a cinema server. This input supports up to 7.1-channel audio input and accommodates PCM audio at 96, 48, 44.1 kHz and 32 kHz (16, 20 and 24 bits) and Dolby Digital at all data rates and sample rates.
- **Analog Input:** Uses a female HD-25 connector to accept 8 channels of signals and is designed to receive 300mVRMS (ref) inputs from external sources.
- **USB Connector:** Type-A USB connector and can be used for preset saving or loading.
- **Redundant Output:** Installs a male HD-25 connector which will bypass the CPi2000 system and directly output audio signals when power failure occurs. It must work together with Analog Input.
- **LAN Port:** Uses a RJ45 connector with activity LEDs. Can be used for TMS (heatre Management System) communication, GUI software operation and firmware upgrade.
- **Analog Output 1:** The 8-channel output uses a male HD-25 connector and is compatible with third party audio systems.
- **Backup DC Power Input:** Uses a 4-pin female XLR connector to connect a +12V 2A DC power adapter (sold separately).
- **Analog Output 2:** Includes ten male HD-15 connectors (Left 1, L/R 2, Center 1, Center 2, Right 1, LS/RS 1, LR/RS 2, BLS/BRS, SW 1, SW 2) and connects to CROWN cinema amplifiers for analog audio output and fault detection signal input.

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APPLICATION EXAMPLE ■



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SPECIFICATIONS ■

INPUT		
Digital Input	Connector	Female HD-25 Balanced
	Impedance	110 Ohms
	Input level	0.5 - 10 Vpp
Analog Input	Connector	Female HD-25 Balanced or Unbalanced
	Impedance	50K Ohms (Balanced) or 25K Ohms (Unbalanced)
	Max. input level	+14.2 dBu
Mic Input	Connector	Female XLR Balanced or Unbalanced
	Impedance	660 Ohms (Balanced) or 330 Ohms (Unbalanced)
	Total gain	40 dB
	E.I.N.	>113dB, 20K Hz Bandwidth
Music (Non-Sync) Input	Connector	RCA
	Impedance	25K Ohms
	Max. input level	+14.2 dBu
OUTPUT		
Analog Output 1 & Redundant Output	Connector	Male HD-25 Balanced or Unbalanced
	Impedance	30 Ohms (Balanced) or 15 Ohms (Unbalanced)
	Max. level	+14.2 dBu
	Frequency response	20 Hz - 20K Hz, Ref 1K Hz +/-1dB
	THD + N	<0.01%, 20 Hz - 20K Hz
	Dynamic range	>102 dB
Analog Output 2	Connector	10 x Female HD-15 Balanced or Unbalanced
	Impedance	30 Ohms (Balanced) or 15 Ohms (Unbalanced)
	Max. level	+14.2 dBu
	Frequency response	20 Hz - 20K Hz, Ref 1K Hz +/-1dB
	THD + N	<0.01%, 20 Hz - 20K Hz
	Dynamic range	>102 dB
POWER		
AC Power Input	100-240VAC, 50-60Hz	
DC Power Input	+12VDC, 2A	
GENERAL		
Rack space	2U	
Dimensions (W x H x D)	482 x 88 x 231 mm	
Net Weight	4.0 kg	
Shipping Weight	5.6 kg	



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Webchat



Website

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