



CDi SERIES

CDi Series



The CDi Series of Crown® amplifiers are professional tools designed and built for installed sound applications. The series includes four models which are identical except for output power: CDi 1000, CDi 2000, CDi 4000 and CDi 6000. All are rugged and lightweight, and offer unmatched value in their class.

CDi-Series amplifiers feature an intuitive front-panel LCD screen to guide installers through their configurations. CDi amplifiers also offer onboard DSP for loudspeaker signal processing. Other features include a switch-mode universal power supply, useful function indicators, proportional-speed fan-assisted cooling, removable Phoenix-style inputs, barrier strip outputs for low-Z or 70V/100V/140V loads, short-circuit protection and more.

Your investment in a CDi-Series amplifier is backed by Crown's Three-Year, No-Fault, Fully Transferable Warranty.

For more details about the Crown CDi Series, contact the Crown Technical Support Group at 800-342-6939 or 574-294-8200. Also, visit the Crown Audio website at www.crownaudio.com.

Features

- Accurate, uncolored sound with very low distortion for the best in music and voice reproduction
- Extremely versatile; rated for 2, 4, 8 ohm loads and 70V/100V and 140V outputs
- Advanced protection circuitry guards against: shorted outputs, open circuits, DC, mismatched loads, general overheating, high-frequency overloads and internal faults
- Intuitive front-panel LCD screen for quick, easy configuration
- Switch-mode universal power supply
- Onboard digital signal processing includes crossovers, EQ filters, delay, and output limiting
- All products fill 2U rack spaces and weigh under 19 pounds
- Barrier strip outputs for low-Z or 70V/100V/140V loads, removable Phoenix-style inputs
- Three-Year, No-Fault, Fully Transferable Warranty completely protects your investment and guarantees its specifications

Specifications

Output Power: See power charts below.

Voltage Gain at 1kHz:

- CDi 1000: 30.5 dB
- CDi 2000: 32.9 dB
- CDi 4000: 34.2 dB
- CDi 6000: 37.1 dB

Frequency Response: +0/-1 dB from 20 Hz to 20 kHz at 1 watt into 4 ohms.

Load Impedance: Safe with all types of loads. Rated for 2 to 8 ohms in Stereo mode, 4 to 16 ohms in Bridge-Mono mode. CDi 1000 A1 (100V version) is rated for 4 to 8 ohms in Stereo mode, 8 to 16 ohms in Bridge-Mono mode.

Sensitivity:

- At 8 ohm rated output:
- CDi 1000: 1.4V
- CDi 2000: 1.4V
- CDi 4000: 1.4V
- CDi 6000: 1.4V

- At 4 ohm rated output:
- CDi 1000: 1.3V
- CDi 2000: 1.2V
- CDi 4000: 1.3V
- CDi 6000: 1.3V

- At 2 ohm rated output:
- CDi 1000: 1.1V
- CDi 2000: 1.0V
- CDi 4000: 1.0V
- CDi 6000: 1.1V

Signal to Noise Ratio (below rated 8-ohm power at 1 kHz): CDi 1K, 2K, 4K: 100 dB (A weighted). CDi 6K: 103 dB (A weighted).

Damping Factor: Better than 500 from 20 Hz to 400 Hz.

Crosstalk: > 70 dB below rated power, 20 Hz to 1 kHz, A-weighted.

Input Stage: Input is electronically balanced and employs precision 1% resistors.

Input Impedance (nominal): 20 k ohms, balanced; 10 k ohms, unbalanced.

AC Line Voltage and Frequency Configurations Available: 100V, 120V, 220-240V, 50/60 Hz.

AC Line Current (120VAC amplifier playing 1/8 power pink noise into 4 ohms per ch):
 CDi 1000: 6.8A, CDi 2000: 8.3A, CDi 4000: 10.5A; at idle draws no more than 38 watts.
 CDi 6000: 15.3A; at idle draws no more than 180 watts.

CDi 1000

	1 kHz Power
2 ohm Dual (per channel)	700W*
4 ohm Dual (per channel)	500W
8 ohm Dual (per channel)	275W
4 ohm Bridge-Mono	1,400W*
70V Dual (per channel)	500W
100V** Dual (per channel)	500W
140V Bridge-Mono	1,000W

**100Vp

With 0.5% THD.
*With 1% THD.

CDi 4000

	1 kHz Power
2 ohm Dual (per channel)	1,600W*
4 ohm Dual (per channel)	1,200W
8 ohm Dual (per channel)	650W
4 ohm Bridge-Mono	3,200W*
70V Dual (per channel)	1,000W
100V** Dual (per channel)	1,000W
140V Bridge-Mono	2,000W

**100Vp

With 0.5% THD.
*With 1% THD.

CDi 2000

	1 kHz Power
2 ohm Dual (per channel)	1,000W*
4 ohm Dual (per channel)	800W
8 ohm Dual (per channel)	475W
4 ohm Bridge-Mono	2,000W*
70V Dual (per channel)	800W
100V** Dual (per channel)	800W
140V Bridge-Mono	1,600W

**100Vp

With 0.5% THD.
*With 1% THD.

CDi 6000

	1 kHz Power
2 ohm Dual (per channel)	3,000W*
4 ohm Dual (per channel)	2,100W
8 ohm Dual (per channel)	1,200W
4 ohm Bridge-Mono	6,000W*
70V Dual (per channel)	2,500W
100V** Dual (per channel)	2,500W
140V Bridge-Mono	5,000W

**100Vp

With 0.5% THD.
*With 1% THD.

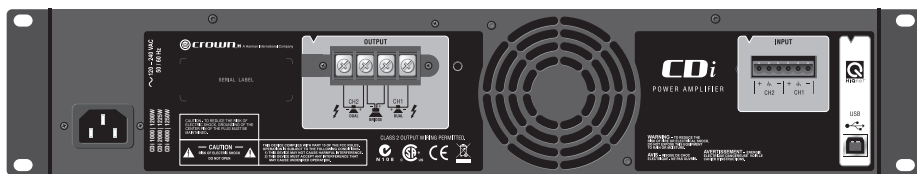


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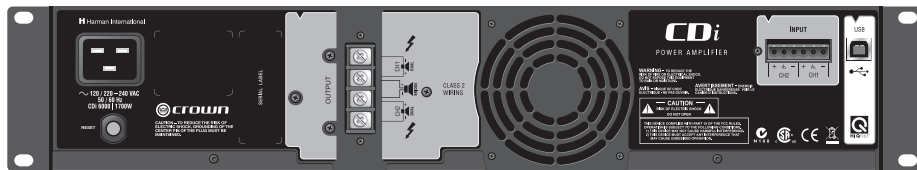


CINEMA

CDi Series



CDi 1000, 2000, 4000 back panel



CDi 6000 back panel

Maximum Input Signal: +22 dBu typical.

Operating Temperature: 0° C to 40° C at 95% relative humidity (non-condensing).

DSP Section

Input EQ: 6 parametric filters per channel with adjustable Q, ±15 dB boost/cut. Also adjustable high and low shelving filters. This 8-filter EQ section can be bypassed.

Crossover Filters: Highpass and lowpass per channel. Butterworth 6/12/18/24 dB per octave, Linkwitz-Riley 24/48 dB per octave. Also includes ±15 dB bandpass gain and polarity control.

Output EQ: 8 parametric filters per channel with adjustable Q, ±15 dB boost/cut. This 8-filter EQ section can NOT be bypassed. Filters are enabled individually.

Output Limiter: Prevents clipping and protects loudspeakers. Choice of -3, -6, or -12 dB threshold per channel.

Delay: Up to 50 msec total delay per channel.

Presets: 20 presets. One is "DSP OFF." Fifteen are factory-set for JBL Cinema systems. Four are user-definable.

Front Panel Controls and Indicators

Level: Detented rotary level control, one per channel.

Power Switch: On/off switch applies AC power to the amplifier.

Sel/Prev/Next Buttons: Three buttons near the LCD screen are used to access menu items and front panel lockout.

LCD Screen: Backlit liquid crystal display shows speaker presets and signal processing.

Signal Indicator: Green LED, one per channel, illuminates when a very low-level signal is present at input.

-10 Indicator: Green LED flashes when output signal exceeds -10 dB below clip.

-20 Indicator: Green LED flashes when output signal level exceeds -20 dB below clip.

Ready Indicator: Green LED, one per channel, illuminates when the amplifier is ready to produce audio.

Clip Indicator: Red LED, one per channel, turns on at the threshold of audible distortion.

Temp Indicator: Red LED, one per channel, illuminates under excessive temperature conditions.

Power Indicator: Blue LED illuminates when the amplifier has been turned on and has power.

Rear Panel Controls and Connectors

AC Line Connector:

CDi 1K, 2K, 4K: NEMA 5-15P (15A).

CDi 6000: NEMA 6-10P (20A)

IEC C20 (20A).

Input Connector: Two 3-pin removable Phoenix-type connectors each accept a balanced line-level input signal.

Output Connectors: 4-position barrier strip with connectors for dual loudspeakers or bridge-mono loudspeaker.

HiQnet USB Connector: Type B, connects to a HiQnet network.

HD-15 Connector: For cinema I/O compatibility with CDi-8M System Monitor. See Figure 1.

Protection

CDi-Series amplifiers are protected against shorted, open or mismatched loads; overloaded power supplies; excessive temperature; chain destruction phenomena; excessive output current, and input overload damage. They also protect loudspeakers from input/output DC, large or dangerous DC offsets and turn-on/turn-off transients

Construction

Chassis: Steel.

Cooling: Proportional speed fan with front-to-rear airflow.

Dimensions: EIA Standard 19-in. rack mount width (EIA RS-310-B), 3.5 in. (8.9 cm) high and 12.25 in. (31.11 cm) deep behind mounting surface. CDi 6000 is 16.2 in. (41.15 cm) deep.

Net Weight:

CDi 1K, 2K, 4K: 19 lb (8.6 kg).

CDi 6K: 24 lb (10.9 kg).

Shipping Weight:

CDi 1K, 2K, 4K: 22 lb (10.0 kg).

CDi 6K: 30 lb (13.6 kg).



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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.