



INSTALLED SOUND

CTs 2-Channel Series

CTs Multi-Channel Series

CTs Multi-Channel with CobraNet™

CDi Series

DSi Series

AMPLIFIERS ▶ INSTALLED SOUND

CTs Series: The New Standard

CTs 600, CTs 1200, CTs 2000, CTs 3000



Foundation

▶ FEATURES

- High power density. All two channel models in a 2U chassis.
- New Crown Switching Power Supply for lighter weight.
- Selectable "Constant-Voltage" or low-impedance operation per channel.
- 100V direct outputs on CTs 2000, CTs 3000.
- Fully PIP2-compatible.

POWER OUTPUT*

Models	2-ohm Dual (per channel)	4-ohm Dual (per channel)	8-ohm Dual (per channel)	16-ohm Dual (per channel)	70V Dual (per channel)	100V Dual (per channel)	4-ohm Bridge	8-ohm Bridge	16-ohm Bridge	140V Bridge	200V Bridge
CTs 600	150W**	300W	300W	300W	300W	—	300W**	600W	600W	—	—
CTs 1200	250W**	600W	600W	300W	600W	—	500W**	1,200W	1,200W	—	—
CTs 2000	1,000W	1,000W	1,000W	625W	1,000W	1,000W	2,000W	2,000W	2,000W	2,000W	2,000W
CTs 3000	1,500W	1,500W	1,250W	625W	1,500W	1,500W	3,000W	3,000W	2,500W	3,000W	3,000W

*Maximum average power in watts at rated THD, 20 Hz - 20 kHz.
** At 1 kHz.

▶ SPECIFICATIONS

Performance

Frequency Response (at 1 watt) 20 Hz to 20 kHz: ±0.25 dB.

Signal-to-Noise Ratio, A-weighted, below rated power (20 Hz to 20 kHz): 105 dB.

Total Harmonic Distortion (THD) at full rated power, from 20 Hz to 20 kHz
CTs 600 & CTs 1200: < 0.1%.
CTs 2000 & CTs 3000: < 0.35%.

Intermodulation Distortion (IMD) 60 Hz and 7 kHz at 4:1, from -40 dB to full power: < 0.1% for CTs 600/1200 and < 0.35% for CTs 2000/3000.

Damping Factor, 10 Hz to 100 Hz: > 3000.

Crosstalk (below rated power, 20 Hz to 1 kHz): > 80 dB.

Voltage Gain (at maximum level setting) 8/4-ohm operation, 1.4V sensitivity
CTs 600: 35:1 (31 dB).
CTs 1200: 50:1 (34 dB).
CTs 2000: 63.9:1 (36 dB).
CTs 3000: 71.4:1 (37 dB).

26 dB: 20:1 (26 dB).
70V operation, 1.4V sensitivity or 100V operation, 2.0V sensitivity: 50:1 (34 dB).

Common Mode Rejection (CMR) (20 Hz to 1 kHz, typical): 50 dB.

Maximum Input Level: +20 dBu before input compression, +32 dBu absolute maximum.

Load Impedance (safe with all types of loads):
CTs 600 & CTs 1200: Stereo, 2 to 16 ohms and 70V; Mono, 4 to 16 ohms and 140V.

CTs 2000 & CTs 3000: Stereo, 2 to 16 ohms, 70V and 100V; Mono, 4 to 16 ohms, 140V and 200V.

Input Impedance (nominal): 10 kilohms balanced, 5 kilohms unbalanced.

AC Line Voltage and Frequency Configurations Available (±10%): 120VAC, 60 Hz and 230VAC, 50 Hz.

Power Draw at Idle (120VAC mains):
CTs 600 & CTs 1200: 24W (standby mode).
CTs 2000 & CTs 3000: 35W (standby mode).

DC Output Offset (shorted input): < ±2 millivolts.

Front Panel Controls and Indicators

Power Switch: Push-on / push-off switch.

Indicators: Bridge Mode, Ready, Signal, Clip, Thermal, Fault, Data, Power.

Back Panel Controls and Connectors

Power Cord Connector: Standard 15 amp IEC inlet. Voltage is indicated above IEC inlet.

Reset Switch: Resets the circuit breaker that protects the power supply.

Speaker Connectors: One four-pole touch-proof terminal strip. Accepts up to 10 AWG terminal forks.

Input Connectors: Balanced 3-pin terminal block connectors, one per channel, on the standard PIP2-BBY module.

Channel Level Control: One 21-position detented rotary attenuator per channel, ranging from minus infinity (-70 dB) to 0 dB gain.

Mode Switch: Two-position switch is used to select the amplifier's mode of operation: Dual or Bridge-Mono.

Highpass Filter: One 3-position switch per channel selects between OFF, 35Hz and 70Hz 3rd-order filters.

"Y" Input Switch: When set to ON, this switch parallels the input signals of the two channels, for use when the input signal is mono. Also can be used to daisy-chain the signal to another amplifier.

Ventilation Grille: Front-to-rear forced airflow.

Protection

CTs Series amplifiers provide extensive protection and diagnostic capabilities, including Thermal Level Control (TLC), fault, low-pass filters, high-pass filters, AC under/over voltage protection, DC output servo, circuit breaker, inrush limiting, and Junction Temperature Simulation (JTS) in CTs 600/1200.

Construction

Ventilation: Front-to-rear forced airflow. Two continuously variable speed fans direct the airflow through the amplifier for cooling.

Dimensions: EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 3.5-inch (8.9-cm) height and 14.25-inch (36.2-cm) depth behind the mounting surface.

Weight

Net Weight:

CTs 600: 22.8 lbs. (10.3 kg).
CTs 1200: 23.4 lbs. (10.6 kg).
CTs 2000: 27.0 lbs. (12.2 kg).
CTs 3000: 27.7 lbs. (12.6 kg).

Shipping Weight:

CTs 600: 27.7 lbs. (12.6 kg).
CTs 1200: 28.3 lbs. (12.8 kg).
CTs 2000: 32.0 lbs. (14.5 kg).
CTs 3000: 32.7 lbs. (14.8 kg).

System Solutions

IQ® PIP™ LITE, IQ-PIP USP3, IQ-PIP USP3/CN, PIP-3632, PIP-4622, PIP-4632 and PIP-USL.

Regulatory Certifications



Other Applications



Note: Specifications apply to units in Dual mode with 8-ohm loads and rated input sensitivity unless otherwise specified.

INSTALLED SOUND

Crown's CTs Series amplifiers provide exceptional performance, flexibility and value for installed sound applications. CTs Series amplifiers feature independent selection of high and low impedance operation for a specific channel, plus power levels and features that were carefully chosen to match the requirements of fixed install design. Easy integration with HiQnet™ and CobraNet™ allows CTs amplifiers to deliver a comprehensive lineup of monitoring and control features along with digital audio transport for an award-winning digital audio solution.

AMPLIFIERS ▶ INSTALLED SOUND

CTs Multi-Channel Series: The New Standard
CTs 4200, CTs 8200



Flexibility

▶ **FEATURES**

- High power density: Four-channel model in a 2U chassis, eight-channel model in a 3U chassis.
- New Crown Switching Power Supply for lighter weight.
- Selectable “Constant-Voltage” or low-impedance (4/8 ohm) operation per channel-pair.
- 100V direct outputs.
- New “FIT” (Fault Isolation Topology) circuitry isolates fault conditions without affecting neighboring channels.
- Accept new MC accessory modules.

POWER OUTPUT*

Models	All channels driven			1 channel driven			All channel pairs driven			1 channel pair driven		
	4-ohm Dual	8-ohm Dual	70V Dual	4-ohm Dual	8-ohm Dual	70V Dual	8-ohm Bridge	16-ohm Bridge	100V Bridge	8-ohm Bridge	16-ohm Bridge	100V Bridge
CTs 4200	260W	200W	220W[†]	270W	220W	250W[†]	520W	400W	220W[†]	560W	440W	250W[†]
CTs 8200	200W	160W	200W[†]	270W	220W	250W[†]	400W	320W	200W[†]	540W	440W	250W[†]

*Maximum average power in watts at 1kHz at 0.1% THD.
[†]Constant Voltage full-bandwidth power ratings support 100 Hz to 20 kHz due to automatic high-pass filters.

▶ **SPECIFICATIONS**

Performance

Frequency Response (at 1 watt, 20 Hz - 20 kHz): ±0.5 dB.

Phase Response (at 1 watt, 10 Hz - 20 kHz): ±35°.

Signal to Noise Ratio (below rated power, 20 Hz to 20 kHz): 100 dB unweighted.

Total Harmonic Distortion (THD) at 1 watt, from 20 Hz to 20 kHz: < 0.05%.

Intermodulation Distortion (IMD) 60 Hz and 7 kHz at 4:1, from 163 milliwatts to full bandwidth power: < 0.05% (typical).

Damping Factor: 10 Hz to 400 Hz: >180.

Crosstalk (below rated power, 20 Hz to 1 kHz): > 80 dB.

Common Mode Rejection (CMR) (20 Hz to 1 kHz): > 50 dB.

DC Output Offset (shorted input): < ±5 mV.

Input Impedance (nominal): 20 kilohms balanced, 10 kilohms unbalanced.

Maximum Input Level (before input compression): +20 dBu.

Load Impedance: (Note: Safe with all types of loads)

Stereo: 4/8 and 25 ohms (70V).

Bridge Mono: 8/16 and 50 ohms (100V).

Voltage Gain (at maximum level setting), 1.4V sensitivity,

4/8 Ohm Operation: 20:1 (26 dB).

70V Operation: 50:1 (34 dB).

100V Operation: 71.4:1 (37 dB).

AC Line Voltage and Frequency Configurations Available (±10%): 120V/60 Hz, 220/230/240V/50 Hz.

Power Draw at Idle (120VAC mains, all channels in 4/8 ohm mode): 58W.

Power Draw at Idle (120VAC mains, all channels in 70V mode): 77W.

Front Panel Controls and Indicators

Indicators: Bridge, Ready, Signal, Clip, Thermal, Fault, Data, Power.

Power Switch: Amplifier is on when the switch is in the IN position.

Back Panel Controls and Connectors

AC Power Cord Connector: IEC inlet, type 320; 100/120VAC units: 15A.

220/230/240VAC units: 10A.

Voltage is indicated above IEC inlet.

Output Connectors: One four-pole terminal strip for every two channels with touch-proof cover. Accepts up to 10 AWG terminal forks.

Accessory Panel: CTs 4200 accepts an optional VCA-MC4A module. CTs 8200 accepts an optional VCA-MC8 module.

Channel Level Controls: One 21-position detented rotary potentiometer per channel, ranging from infinity (-70 dB) to 0 dB attenuation.

Input Connectors: Removable Phoenix-style barrier connectors for balanced input.

Mode Switch: Used on each consecutive pair of channels, this four-position switch is used to select the amplifier's mode of operation: Dual 8/4 ohms, Dual 70V, Bridge-Mono 16/8 ohms, and Bridge-Mono 100V.

Protection

CTs Multi-channel Series amplifiers provide extensive protection and diagnostic capabilities, including Thermal Level Control (TLC), fault, FIT protected circuitry, AC under/over voltage protection, power fuse, and inrush limiting

Construction

Ventilation: Front-to-rear forced airflow. Continuously variable speed fans (four in the CTs 8200, one in the CTs 4200) direct the airflow through the amplifier for cooling.

Dimensions

CTs 4200: EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 3.5-inch (8.9-cm) height and 16.25-inch (41.3-cm) depth behind the mounting surface.

CTs 8200: EIA Standard 19-inch (48.3-cm) rack mount width (EIA RS-310-B), 5.25-inch (13.3-cm) height and 16.25-inch (41.3-cm) depth behind the mounting surface.

Weight

Net Weight:

CTs 4200: 27 lb 8 oz (12.5 kg);

CTs 8200: 36 lb 6 oz (16.5 kg).

Shipping Weight:

CTs 4200: 32 lb (14.5 kg).

CTs 8200: 47 lb (21.3 kg).

System Solutions

VCA-MC4A: VCA module for CTs 4200A.

VCA-MC8: VCA module for CTs 8200.

VCA modules allow remote volume control.

Accessories

Wall-mount level control panels for use with VCA module:

1-VCAP: 1-gang panel with 1 VCA channel volume control.

4-VCAP: 2-gang panel with 4 VCA channel volume controls.

Regulatory Certifications



Other Applications



INSTALLED SOUND

Crown's CTs Multi-channel Series offers wide flexibility for a wide range of installed sound applications. CTs Multi-channel Series amplifiers offer independent selection of high- and low-impedance operation for each channel pair, making these amps ideal for multi-zone installations.

AMPLIFIERS ▶ INSTALLED SOUND

CTs Multi-Channel Series: With CobraNet
CTs 4200USP/CN, CTs 8200USP/CN



CobraNet™ Capable

▶ **FEATURES (input module)**

- 100 Mbps Ethernet single-plug solution for CobraNet audio, and HiQnet™ control and monitoring.
- Analog audio inputs allow CobraNet network audio input, CobraNet audio backup, or a hardwire emergency override of CobraNet audio.
- 24 bit digital to analog conversion with 32 bit, floating point DSP processing.
- Firmware upgrades via the network.
- 10 user selectable presets.
- Reliable FLASH memory backup of all parameters.

POWER OUTPUT*

Models	All channels driven			1 channel driven			All channel pairs driven			1 channel pair driven		
	4-ohm Dual	8-ohm Dual	70V Dual	4-ohm Dual	8-ohm Dual	70V Dual	8-ohm Bridge	16-ohm Bridge	100V Bridge	8-ohm Bridge	16-ohm Bridge	100V Bridge
CTs 4200USP/CN	260W	200W	220W†	270W	220W	250W†	520W	400W	220W†	560W	440W	250W†
CTs 8200USP/CN	200W	160W	200W†	270W	220W	250W†	400W	320W	200W†	540W	440W	250W†

*Maximum average power in watts at 1kHz at 0.1% THD.
 †Constant Voltage full-bandwidth power ratings support 100 Hz to 20 kHz due to automatic high-pass filters.

▶ **SPECIFICATIONS**

USP/CN CobraNet Module Specifications

(for amplifier specifications, see the CTs Multi-Channel Series pages)

Connectors:

AUX Connector: Configurable for AUX input, AUX output and Listen Bus. Listen Bus is also supported through CobraNet.

Network Connector: The dual RJ45 CobraNet connectors allow a Primary & Secondary connection to the 100Mb Ethernet network. Should the Primary connection lose link activity with the network, the input module will automatically switch to the Secondary connection to ensure uninterrupted audio and control. The indicators on the RJ45 connectors display network information concerning the Ethernet and CobraNet connections.

Indicators:

Preset Indicator: Signals the number of the current preset, if active, by flashing a series of flashes equal to the current preset number.

IQ Data Indicator: Flashes when the module receives a valid command that is addressed to the CTs 4200 USP/CN and CTs 8200USP/CN.

Switches:

Reset/Preset Switch: Used to change presets, restore settings to factory default or restore all the presets to the factory defaults. During operation of the switch, the Data indicator flashes as an aid to the user. Accessible with a straightened paper clip through the rear panel, the switch selects the next user preset if pressed for less than 2 seconds, and resets the module to preset "0" if pressed for more than 2 seconds.

General:

Memory Backup: Non-volatile FLASH memory for backup of run-time parameters, presets, and program storage.

Communications: 100Mb Fast Ethernet conforming to IEEE 802.3.

Overall Audio Performance:

DSP Processing: Two processors, 32 bit, Floating Point, 724 µs latency.

D/A and A/D Conversion: 24 bit.

Latency:

DSP processing: 1 ms or 1000 µs.
 D/A Conversion: 250 µs.
 A/D Conversion: 250 µs.
 Amplifier: 100 µs.
 Total: 1.6 ms or 1600 µs.

Dynamic Range: 103 dB typical (A-weighted, 20Hz–20kHz, audio sourced from muted CobraNet channel).

Distortion: < 0.1% THD+N, 20Hz–20kHz.

Frequency Response: ± 0.5 dB, 20Hz–20kHz.

Input/Output Monitor Accuracy: Typically ±1dB.

Maximum Input Level: + 20 dBu.

Regulatory Certifications



Other Applications



CTs 8200USP/CN Back Panel (note USP/CN CobraNet module at top left)

INSTALLED SOUND

The Crown® CTs 4200USP/CN and CTs 8200USP/CN power amplifiers have an integrated 3rd generation, DSP-based input module. It connects the amplifier to a 100 Mbps Ethernet network allowing it to be remotely controlled and monitored via System Architect™ software. In addition, the input module allows the transport of real-time digital audio via CobraNet™ over the same Ethernet network. The amplifiers connect to a HiQnet™ audio control/monitor network using standard 100 Mbps Ethernet hardware (switches, Network Interface Cards, and cables). CobraNet™ audio is available over the same 100 Mbps Ethernet network, providing a simple-to-install, single-plug solution for audio distribution, control, and monitoring.

AMPLIFIERS ▶ INSTALLED SOUND

CDi Series: 2/4/8 Ohm, 70V per channel

CDi 1000, CDi 2000



Versatility

▶ FEATURES

- Onboard digital signal processing includes crossovers, EQ filters, delay, and output limiting.
- Computer connectivity via USB allows fast setup and configuration with HiQnet™.
- Barrier strip outputs, removable Phoenix-style input.
- Extremely versatile, handling a wide range of speaker impedances and outputs.
- Switch-mode universal power supply.
- Speaker presets for crossover frequencies, EQ, limiting, compression, delay, and subharmonic synthesis.

POWER OUTPUT*

Models	2-ohm Dual (per channel)	4-ohm Dual (per channel)	8-ohm Dual (per channel)	70V Dual (per channel)	4-ohm Bridge	8-ohm Bridge
CDi 1000	700W**	500W	275W	500W	1,400W**	1,000W
CDi 2000	1,000W**	800W	475W	800W	2,000W**	1,600W

*Maximum average power in watts at 1 kHz at 0.5% THD. **With 1% THD.

▶ SPECIFICATIONS

Performance

Output Power: See power charts on previous page.

Voltage Gain at 1kHz, 8 ohm rated output:

CDi 1000: 30.5 dB.

CDi 2000: 32.9 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.

Sensitivity: 1.4V.

Signal to Noise Ratio (below rated 8-ohm power at 1 kHz): 100 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.

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

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

Maximum Input Signal: +22 dBu typical.

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

AC Line Current:

CDi 1000: 6.5A.

CDi 2000: 6.9A.

At Idle: Draws no more than 90 watts.

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 and 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.

Delay: Up to 50 msec total delay per channel.

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

Presets: 20 presets. 19 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: NEMA 5-15P (15A).

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. Dual connectors work with 2-8 ohm or 70V loads. Bridge-mono connectors work with 4-8 ohm or 140V loads.

HiQnet USB Connector: Type B, connects to a USB port on a PC.

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. (48.3-cm) 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.

Net Weight:

19 lb (8.6 kg).

Shipping Weight:

22 lb (10.0 kg).

Regulatory Certifications



Note: All measurements apply to all models of CDi Series amplifiers in stereo mode with 8-ohm loads and an input sensitivity of 26 dB gain, 1 kHz at rated power unless otherwise specified. Specifications for units supplied outside the U.S.A. may vary slightly at different AC voltages and frequencies.



INSTALLED SOUND

The CDi Series of Crown® amplifiers are designed for installed sound applications. The series includes two models which are identical except for output power: CDi 1000 and CDi 2000. Both are rugged and lightweight, and offer unmatched value in their class. CDi-Series amplifiers feature an LCD screen with DSP speaker presets. 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/140V loads, short-circuit protection and more.



AMPLIFIERS ▶ INSTALLED SOUND

DSi Series: 2, 4, 8 ohm

DSi 1000, DSi 2000, DSi 4000



One-touch Performance

▶ FEATURES

- Intuitive front-panel LCD screen, automatic presets for popular JBL speaker systems for quick, easy configuration.
- Onboard digital signal processing includes crossovers, EQ filters, delay, and output limiting.
- Computer connectivity via USB allows fast setup and configuration with HiQnet™.
- Barrier strip outputs, removable Phoenix-style input.

POWER OUTPUT

Models	2-ohm Dual (per channel)	4-ohm Dual (per channel)	8-ohm Dual (per channel)	4-ohm Bridge	8-ohm Bridge
DSi 1000	700W**	500W*	275W*	1,400W**	1,000W*
DSi 2000	1,000W**	800W*	475W*	2,000W**	1,600W*
DSi 4000	1,600W**	1,200W*	650W*	3,200W**	2,400W*

*Maximum average power in watts at 1 kHz at 0.5% THD. **With 1% THD.

▶ SPECIFICATIONS

Performance

Voltage Gain at 1kHz, 8 ohm rated output:

- DSi 1000: 26 dB.
- DSi 2000: 26 dB.
- DSi 4000: 26 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.

Sensitivity:

- At 8 ohm rated output:
 - DSi 1000: 2.35V.
 - DSi 2000: 3.09V.
 - DSi 4000: 3.61V.
- At 4 ohm rated output:
 - DSi 1000: 2.24V.
 - DSi 2000: 2.84V.
 - DSi 4000: 3.47V.
- At 2 ohm rated output:
 - DSi 1000: 1.88V.
 - DSi 2000: 2.24V.
 - DSi 4000: 2.84V.

Signal to Noise Ratio (below rated 8-ohm power at 1 kHz): 100 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.

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

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

Maximum Input Signal: +22 dBu typical.

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

AC Line Current:

- DSi 1000: 6.5A.
- DSi 2000: 6.9A.
- DSi 4000: 8.0A.

At Idle: Draws no more than 90 watts.

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.

Back Panel Controls and Connectors

AC Line Connector: NEMA 5-15P (15A).

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 USB port on a PC.

HD-15 Connector: For cinema I/O compatibility with DSi-8M System Monitor.

Protection

DSi-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. (48.3-cm) 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.

Net Weight: 19 lb (8.6 kg).

Shipping Weight: 22 lb (10.0 kg).

Regulatory Certifications



Note: All measurements apply to all models of CDi Series amplifiers in stereo mode with 8-ohm loads and an input sensitivity of 26 dB gain, 1 kHz at rated power unless other otherwise specified. Specifications for units supplied outside the U.S.A. may vary slightly at different AC voltages and frequencies.

Other Applications

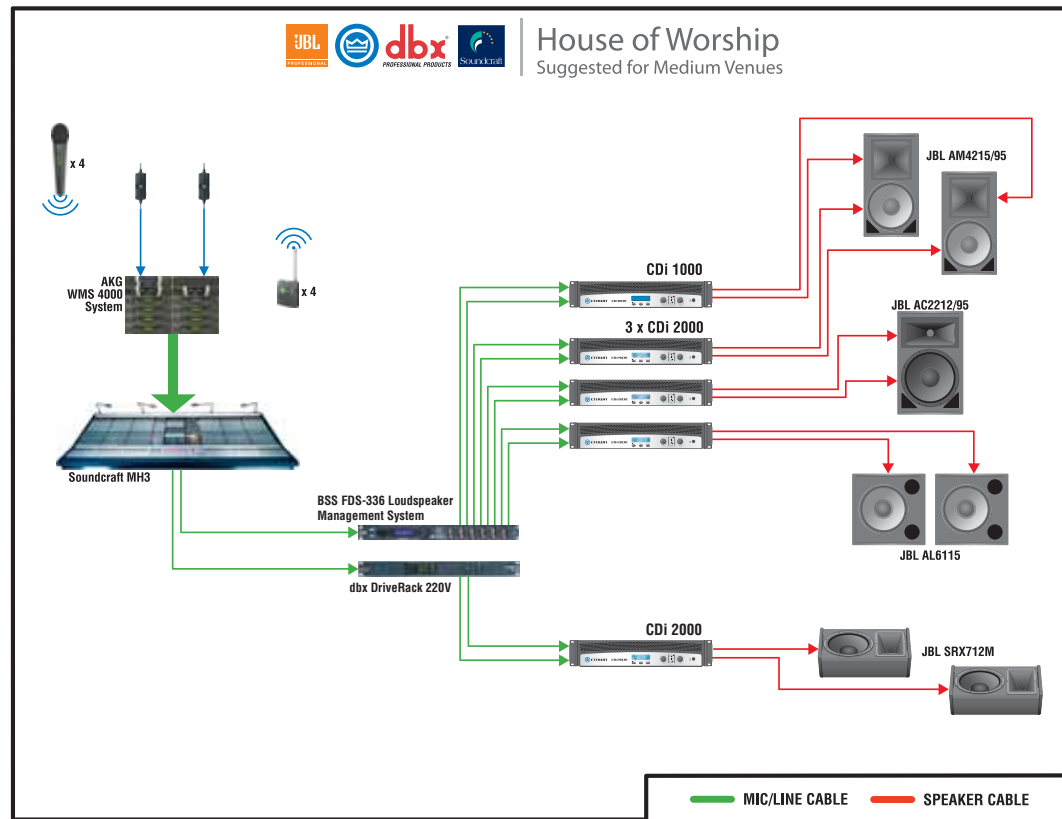


INSTALLED SOUND

The Crown® DSi Series of power amplifiers provides onboard digital signal processing including crossovers, EQ filters, delay and output limiting. The intuitive front panel LCD screen guides installers through a setup process—featuring presets for popular JBL speaker systems—to make configuration quick and easy. At the touch of a button, Crown's DSi amplifiers deliver perfectly matched performance with each award-winning JBL loudspeaker system, making this the ultimate installed-sound solution.



INSTALLED SOUND
Product Applications



INSTALLED SOUND
Product Applications

