



Crystal-clear, seat-shaking cinema sound is here with our new DCA Series Digital Cinema Amplifiers. Seven 21-pound (9.5 kg), two-rack-space models offer power points from 200 to 1700 watts per channel. With QSC's exclusive PowerWave™ switching technology you'll hear ultra-powerful bass and superior highs in every action scene. In addition to their superior performance we've packed these amps with useful features designed specifically for the cinema market.

**The Power Behind the Pictures.**

**POWERWAVE™** With **PowerWave™ technology**, DCA amplifiers take your soundtracks to a whole new level. Not only does it give your music bigger bass and cleaner highs, PowerWave also cuts wasted heat and boosts reliability. PowerWave is a switching power supply that provides ample current to the audio power circuitry by charging the supply rails 230,000 times a second through an ultra-low impedance circuit. So unlike high-powered amps with conventional supplies, the audio signal is never starved prematurely, but remains crisp and clean.

DCA Series amps also boast a set of useful features such as individually selectable clip limiters and subsonic filters; and stereo, parallel, and bridged mono operation. The amps feature XLR, 1/4" TRS (2 channel only), and detachable terminal block input-connectors, and outputs are both Neutrik Speakon™ (2 channel only) and safety-shrouded barrier strips.

Seven models make it easy to get the exact performance you need. For instance, the DCA 1222 is ideal for surround applications featuring extra-low impedance capability to drive 1.6 ohms per channel. The DCA 3422 with 1250 watts per channel at 4 ohms is ideal for powering subwoofer systems.

• **3 year warranty plus optional 3 year extended service contract!**

Model	Watts per channel		
	8Ω	4Ω	2Ω
DCA 1222	215	375	600
1622	350	600	800
2422	475	825	1200
3022	625	1050	1500
3422	800	1250	1700
4-Channel 1644	250	400	nr
1824	160	250	450

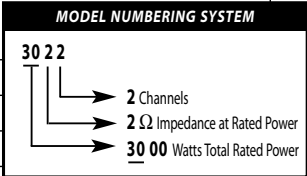
**DCA Features**

- Active Inrush Limiting—won't blow circuit breakers at turn-on (a QSC cinema exclusive!)
- Both speaker and monitor panel outputs (a QSC cinema exclusive!)
- Exclusive PowerWave™ power supply for great bass (a QSC cinema exclusive!)
- A hum-free noise floor and ultra low distortion
- Optional crossover modules for bi-amp, tri-amp and subwoofer applications
- Only 3.5 inches high, even the most powerful systems can be built with only one rack
- DataPort interface for DCM—Digital Cinema Monitor (a QSC cinema exclusive!)
- Patented Output Averaging™ short circuit protection
- 14" deep—works with standard depth racks for lower cost and less floor space
- Only 21 lbs for easier racking and shipping—no need to remove amps from pre-wired systems before shipping
- Gain control security cover protects amp from misadjustment
- Variable-speed fan cooling and back-to-front air flow
- Neutrik Speakon™ (2 channel only) and safety-shrouded barrier strip output connectors
- LED indicators for metering, status, and operating mode (a QSC cinema exclusive!)



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DCA SPECIFICATIONS	DCA 1222	DCA 1622	DCA 2422	DCA 3022	DCA 3422	DCA 1644	DCA 1824
<b>Stereo Mode</b>		<b>Continuous Average Output Power Per Channel</b>					
8 ohms FTC 20 Hz-20 kHz 0.03% THD	200W	300W	425W	550W	700W	250W	160W
8 ohms EIA 1 kHz 1% THD	215W	350W	475W	625W	800W	—	—
4 ohms FTC 20 Hz-20 kHz 0.05% THD	325W	500W	700W	900W	1100W	400W	250W
4 ohms EIA 1 kHz 1% THD	375W	600W	825W	1050W	1250W	—	—
2 ohms EIA 1 kHz 1% THD	600W	800W	1200W	1500W	1700W	NR	450W
<b>Bridge Mono Mode</b>		<b>Continuous Average Output Power</b>					
16 ohms FTC 20 Hz-20 kHz 0.1% THD	400W	600W	850W	1100W	1400W	500W	320W
8 ohms FTC 20 Hz-20 kHz 0.1% THD	700W	1100W	1500W	2000W	2200W	800W	500W
4 ohms EIA 1 kHz 1% THD	1200W	1600W	2400W	3000W	3400W	NR	900W
<b>Signal to Noise (20 Hz-20 kHz)</b>	< -106 dB	< -107 dB	< -108 dB	< -107 dB	< -107 dB	< -105 dB	< -105 dB
<b>Input Sensitivity @ 8 ohms</b>	1.0 Vrms	1.2 Vrms	1.5 Vrms	1.7 Vrms	1.9 Vrms	1.12 Vrms	0.90 Vrms
<b>Input Sensitivity @ 4 ohms</b>	0.9 Vrms	1.1 Vrms	1.3 Vrms	1.5 Vrms	1.7 Vrms	1.00 Vrms	0.79 Vrms
<b>Output Circuitry</b>	AB	AB	2-Step Class H	2-Step Class H	2-Step Class H	AB+B	AB+B
<b>Power Requirements</b> (1/8 power pink noise @ 4Ω)	6 A*	10 A*	8 A*	12 A*	12 A*	12 A*	12 A*
<b>Distortion (SMPTE-IM)</b>	> than 0.01%	> than 0.01%	> than 0.02%	> than 0.02%	> than 0.02%	> than 0.01%	> than 0.01%
<b>All models</b>	<b>All models</b>						
<b>Distortion (typical)</b> 20 Hz-20 kHz: 10 dB below rated power 1.0 kHz and below: full rated power	Less than 0.01% THD, 4Ω & 8Ω Less than 0.01% THD, 4Ω & 8Ω						
<b>Frequency Response</b>	20 Hz-20 kHz, ± 0.2 dB / 8 Hz-50 kHz, +0, -3 dB						
<b>Damping Factor (1 kHz and below)</b>	greater than 500						
<b>Input Impedance</b>	10 KΩ unbalanced, 20 KΩ balanced						
<b>Input Clipping</b>	10 Vrms (+22 dBu)						
<b>Cooling</b>	Variable-speed fan, rear-to-front air flow						
<b>Connectors (each channel)</b>	Input: 1/4" TRS, 3-pin XLR (2 channel only) and 3-pin detachable terminal blocks (1 each per channel) Output: Neutrik Speakon™ (2 channel only) and safety-shrouded barrier strip, including monitor output						
<b>Controls</b>	Front: AC switch, Ch.1 and Ch.2 gain knobs Rear: DIP switch for Ch.1 and Ch.2: clip limiter on/off, LF filter on/off, LF filter freq select-30 or 50 Hz; inputs parallel or stereo; bridge mode						
<b>Indicators</b>	PARALLEL INPUTS: Yellow LED CLIP/PROT: Red LED (1 per channel) BRIDGED: Yellow LED LEVEL -10 dB: Green LED (1 per channel) PWR-ON: Green LED LEVEL -20 dB: Green LED (1 per channel) SIGNAL -35dB: Green LED (1 per channel)						
<b>Amplifier Protection</b>	Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads						
<b>Load Protection</b>	On/off muting, DC-fault power supply shutdown						
<b>Dimensions</b>	19" (48.3 cm) rack mounting, 3.5" (8.9 cm) tall (2 rack spaces), 14" (35.6 cm) deep (from front mounting rails)						
<b>Voltage Gain</b>	40x (32 dB)						
<b>Weight</b>	21 lb (9.5 kg) net						
<b>Optional Accessories</b>	The XC-3 CINEMA CROSSOVER is for bi-amp applications with all commonly used cinema speakers. The SF-3 SUBWOOFER FILTER is an adjustable highpass filter for subwoofers. The LF-3 LOW FREQUENCY FILTER is used with the XC-3 for tri-amp applications.						



\* @ 120 VAC, both channels driven; multiply current by 0.5 for 230V units FTC: all channels driven EIA: one channel driven

