

DCA

2-channel

DIGITAL CINEMA PRODUCTS

Crystal-clear, seat-shaking cinema sound is here with our new DCA Series Digital Cinema Amplifiers. Five 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 and every input/output connector you'll ever need.

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, and detachable terminal block input-connectors, and outputs are both Neutrik Speakon™ and safety-shrouded barrier strips.

Five 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 |
| 1222 | 215 | 375 | 600 |
| 1622 | 350 | 600 | 800 |
| 2422 | 475 | 825 | 1200 |
| 3022 | 625 | 1050 | 1500 |
| 3422 | 800 | 1250 | 1700 |

1 kHz, 1% THD

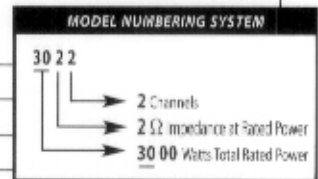
DCA Features

- 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™ and safety-shrouded barrier strip output connectors
- LED indicators for metering, status, and operating mode (a QSC cinema exclusive!)

QSC
AUDIO

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| DCA SPECIFICATIONS | DCA 1222 | DCA 1622 | DCA 2422 | DCA 3022 | DCA 3422 |
|--|---|---|-----------------|-----------------|-----------------|
| Stereo Mode (both channels driven) | | Continuous Average Output Power Per Channel | | | |
| 8 ohms 20 Hz-20 kHz 0.03% THD | 200W | 300W | 425W | 550W | 700W |
| 8 ohms 1 kHz 1% THD | 215W | 350W | 475W | 625W | 800W |
| 4 ohms 20 Hz-20 kHz 0.05% THD | 325W | 500W | 700W | 900W | 1100W |
| 4 ohms 1 kHz 1% THD | 375W | 600W | 825W | 1050W | 1250W |
| 2 ohms 1 kHz 1% THD | 600W | 800W | 1200W | 1500W | 1700W |
| Bridge Mono Mode | | Continuous Average Output Power | | | |
| 16 ohms 20 Hz-20 kHz 0.1% THD | 400W | 600W | 850W | 1100W | 1400W |
| 8 ohms 20 Hz-20 kHz 0.1% THD | 700W | 1100W | 1500W | 2000W | 2200W |
| 4 ohms 1 kHz 1% THD | 1200W | 1600W | 2400W | 3000W | 3400W |
| Signal to Noise (20 Hz-20 kHz) | < -106 dB | < -107 dB | < -108 dB | < -107 dB | < -107 dB |
| Input Sensitivity @ 8 ohms | 1.0 Vrms | 1.2 Vrms | 1.5 Vrms | 1.7 Vrms | 1.9 Vrms |
| Input Sensitivity @ 4 ohms | 0.9 Vrms | 1.1 Vrms | 1.3 Vrms | 1.5 Vrms | 1.7 Vrms |
| Output Circuitry | AB | AB | 2-Step Class H | 2-Step Class H | 2-Step Class H |
| Power Requirements (1/8 power pink noise @ 4Ω) | 6 A* | 10 A* | 8 A* | 12 A* | 12 A* |
| Distortion (SMPTE-IM) | Less than 0.01% | Less than 0.01% | Less than 0.02% | Less than 0.02% | Less than 0.02% |
| <i>All models</i> | | <i>All models</i> | | | |
| Distortion (typical) 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 | | | | |
| Frequency Response | 20 Hz-20 kHz, ± 0.2 dB / 8 Hz-50 kHz, +0, -3 dB | | | | |
| Damping Factor (1 kHz and below) | Greater than 500 | | | | |
| Input Impedance | 10 KΩ unbalanced, 20 KΩ balanced | | | | |
| Input Clipping | 10 Vrms (+22 dBu) | | | | |
| Cooling | Variable-speed fan, rear-to-front air flow | | | | |
| Connectors (each channel) | Input: 1/4" TRS, 3-pin XLR and 3-pin detachable terminal blocks (1 each per channel) Output: Neutrik Speakon™ and safety-shrouded barrier strip, including monitor output | | | | |
| Controls | 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 | | | | |
| Indicators | 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) | | | | |
| Amplifier Protection | Full short circuit, open circuit, thermal, ultrasonic, and RF protection. Stable into reactive or mismatched loads | | | | |
| Load Protection | On/off muting, DC-fault power supply shutdown | | | | |
| Dimensions | 19" (48.3 cm) rack mounting, 3.5" (8.9 cm) tall (2 rack spaces), 14" (35.6 cm) deep (from front mounting rails) | | | | |
| Voltage Gain | 40x (32 dB) | | | | |
| Weight | 21 lb (9.5 kg) net | | | | |
| Optional Accessories | 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

