CDA3

Mainstream cinema | Immersive auditoriums | Post production | Premium large format

Exceptionally powerful and efficient Class D amplification for distortion-free signal reproduction

Class D | 3000W | 2CH

Key features:

- **Versatile and reliable** – Designed for long-term continuous operation for a range of applications
- **Easy to diagnose** – Active, signal present, DC protection, and thermal LED indicators
- **Multi-mode functionality** – parallel/bridge/stereo mode switch with high current switch mode power supply
- **Perfect match** – high current capablity and fast transient response makes it ideal for all loudspeakers
- **Powerfully efficient output** – high-power, low-heat, high stabliity even with low impedance loads

CLASS D AMPLIFICATION

Cinema's first highly efficient and reliable amplifier

Specifications		Christie CDA3
Rated power	bridge 4 ohms	• 3150W @ 1kHz 1% T.H.D.
	bridge 8 ohms	• 1770W @ 1kHz 1% T.H.D.
	2 x 2 ohms	• 1575W per channel @ 1 kHz 1% T.H.D. both channels driven
	2 x 4 ohms	• 870W per channel @ 1 kHz at <0.1% T.H.D. both channels driven
	2 x 8 ohms	• 450W per channel @ 1 kHz at <0.1% T.H.D. both channels driven
	1 x 2 ohms	• 1710W @ 1kHz at <0.1% T.H.D.
	1 x 4 ohms	• 950W @ 1kHz at <0.1% T.H.D.
	1 x 8 ohms	• 475W @ 1kHz at <0.1% T.H.D.
Minimum load impedance		• 2 ohms
Maximum RMS voltage swing		• 71V
Frequency response		• 20Hz-60kHz; -0.2dB, -3dB @ 1W
T.H.D.	2 x 2 ohms	• <0.1% @ 1400W per channel from 20Hz-4kHz, decreasing to 1200W @ 20kHz
	2 x 4 ohms	• <<0.1% @ 850W per channel from 20Hz-20kHz
	2 x 8 ohms	• <0.1% @ 435W per channel from 20Hz-20kHz
Input CMRR		• >-76dB @ 1kHz
Voltage gain		• x75 (+37dB)
Crossover		• 100Hz switchable 2nd order high pass and 3rd order low pass per channel
Crosstalk		• >-76dB @ 1kHz at 100W power @ 4 ohms
Hum and noise		• >-103dB, "A" weighted referenced to rated power @ 4 ohms
Slew rate		• >12V/µs
Damping factor (8 ohms)		• >255:1 @ 20Hz-1kHz @ 8 ohms
Phase response		• +20 to -70o from 20Hz-20kHz
Input sensitivity		• 0.785V ±3% for 1kHz 4 ohm rated power • 0.780V ±3% for 1kHz 2 ohm rated power
Input impedance		• 15k ohms balanced • 7.5k ohms unbalanced
Current draw	@ 1/8 power	• 960W@2ohms • 612W@4ohms • 396W@8ohms
	@ 1/3 power	• 2064W@2ohms • 1212W@4ohms • 739W@8ohms
Cooling		• Temperature dependent variable speed 80mm DC fan
Controls		• 2 front panel attenuators • Crossover select switch for H.P.F, Normal and L.P.F. • Input mode switch for Stereo, Bridge and Parallel
Indicator LEDs		• 2 DDT (ACL clip limiting) • 2 signal presence • 2 active status • 2 temp • 2 DC protect
Protection		• Thermal • DC • Subsonic • Incorrect loads • Under and over voltage
Connectors	inputs	• Neutrik Dual Combi 1/4" XLR
	outputs	• Three Neutrik Speakon connectors for two channels plus common bridge
Construction		• 18 ga. galvanized steel
Dimensions		• (LxWxH) 10.5 x 19 x 3.5" (266 x 482 x 89mm) behind front panel + 0.6" for handle • 2 RU mounting
Net weight		• 11.5lbs (5.21kg)[1]
Gross weight		• 13.9lbs (6.30kg)
Warranty		• Limited 5-year warranty

Corporate offices

Christie Digital Systems USA, Inc.
Cypress
ph: 714 236 8610

Christie Digital Systems Canada Inc.
Kitchener
ph: 519 744 8005

Worldwide offices

Australia
ph: +61 (0) 7 3624 4888

Brazil
ph: +55 (11) 2548 4753

China (Beijing)
ph: +86 10 6561 0240

China (Shanghai)
ph: +86 21 6030 0500

Colombia
ph: +57 (318) 477-3179

Eastern Europe
ph: +36 (0)1 47 48 138

France
ph: +33 (0) 1 41 21 44 04

Germany
ph: +49 221 99 512-0

India
ph: +91 (080) 6708 9999

Mexico
ph: +52 55 4744 1790

Singapore
ph: +65 6877 8790

South Korea
ph: +82 2 702 1601

Spain
ph: +34 91 633 9990

United Arab Emirates
ph: +971 (0) 4 503 6800

United Kingdom
ph: +44 (0) 118 977 8000

United States (Arizona)
ph: 602 943 5700

Independent sales consultant offices

Italy
ph: +39 (0) 2 9902 1161

Russia
ph: +7 (495) 930 8961

Rated power readings made with BW: <10Hz-22kHz. All power measurements made at 120 VAC. 2 ohm power is time limited by circuit breaker. Input power requirements: 120 VAC, 60Hz, 5A.

[1] Net weight does not include power cord.

For the most current specification information, please visit christiedigital.com

CINE0110-CDA3-Datasheet-Jan-2020-EN-US

CERTIFIED ISO 9001 QUALITY SYSTEM

CHRISTIE