# Dolby® Multichannel Amplifier


## Save space. Reduce heat. Amplify sound.

The Dolby® Multichannel Amplifier is an advanced, high-density design that can replace up to 16 stereo amplifiers. With less equipment to install, power, and maintain, you get a simpler and more efficient installation. The Dolby Multichannel Amplifier is available in three configurations, with 16 channels (DMA16302), 24 channels (DMA24302), or 32 channels (DMA32301), and includes enhanced power handling for lower impedance loudspeakers. The 16 channel (DMA16302) and 24 channel (DMA24302) configurations provide an 8-channel analog input module that allows direct integration with the Dolby Digital Cinema Processor CP950/CP950A or other cinema sound processors used in 5.1/7.1 surround sound installations. The Class D amplification topology is designed to deliver high-performance audio quality on every channel.

The Dolby Multichannel Amplifier is designed for reliability. It includes a custom-built power supply with built-in redundancy, power sharing, operational monitoring, and fault detection. The Dolby Multichannel Amplifier power supply enables the system to operate from a 100 to 240 VAC, 20 amp service without tripping the AC main circuit breaker. The Dolby Multichannel Amplifier automatically detects maximum and net power availability, as well as certain operational and environmental conditions, and adjusts channel gains based on power supply, load and fault conditions.

### Dolby multichannel amplifier features

- Available in three configurations (16, 24, or 32 channels)
- 4U rackmount chassis
- Universal power supply 100 to 240 VAC
- Custom-built power supply with built-in redundancy
- Internal crossovers and signal processing to improve your cinema's sound
- Web-based UI for easy access from anywhere on the theatre network
- Front-panel status/signal presence LEDs
- Long and short rack rail kits
- Easily integrates with CP850, CP950/CP950A or IMS3000

# Dolby® Multichannel Amplifier

## I/Os

- 1 × GB Ethernet (1000Base-T/RJ-45)
- 2 x Ethernet (Dolby Atmos Connect/RJ-45)
- 8, 12, or 16 high-voltage/current terminal block outputs (accepting 8 to 24 AWG loudspeaker wire)
- 8-channel analog input (25-pin DB25, female) (DMA16302 and DMA24302)
- Compatible with 3rd-party AES67 analog input devices*

## Accessories

- CAT1140 – long rack rail kit (26″ – 36″ depth)
- CAT1240 – short rack rail kit (19″ – 26″ depth)
- DMA-ACC-US accessory kit (domestic U.S.)
- DMA-ACC-CN accessory kit (China)
- DMA-ACC-ROW accessory kit (rest of world)
- DMA-ACC-TW accessory kit (Taiwan)
- DMA-ACC-IN accessory kit (India)
- DMA-ACC-YAM-ADC - Cable to connect CP750 to Yamaha ADC
- DMA-ACC-ANA-CBL - Cable to connect CP750 to DMA

## Control and monitoring

- Web-based user interface
- SNMP

## Electrical specifications

- AC inlet IEC 320-C20 20 A maximum
- 100 to 240 VAC, 50 to 60 Hz

## Output power

| Output Mode | Speaker Impedance | Output Power |
|---|---|---|
| Stereo Output Mode | 2 Ω | 600 W |
| | 4 Ω | 600 W |
| | 8 Ω | 300 W |
| Bridged Output Mode | 4 Ω | 1100 W |
| | 8 Ω | 1100 W |

## Physical

Unit Dimensions:

- 19″ x 7″ x 22″ (48.3 x 17.7 x 56.3 cm)

Unit weights:

- DMA16302 – 60.4 lbs (27.39 kg)
- DMA24302 – 65.0 lbs. (29.48 kg)
- DMA32301 – 69.6 lbs. (31.57 kg)

## Shipping

Shipping Dimensions:

- 26″ x 14.2″ x 31.5″ (66 x 36 x 80 cm)

Shipping weights:

- DMA16302 - 72.8 lbs (33 kg)
- DMA24302 - 77.2 lbs (35 kg)
- DMA32301 - 80 lbs (36 kg)

*Yamaha Tio1608-D I/O box

The English version of this document is the only legally binding version.
Translated versions are not legally binding and are for convenience only.

Specifications are subject to change without notice.

This documentation applies to Model CID1001

**Dolby Laboratories, Inc.** 1275 Market Street, San Francisco, CA 94103-1410 USA **dolby.com**