

NuForce

MCA-18

Multi-Channel Amplifier



User's Manual
ATMCAGB

The Optoma logo, featuring a stylized white swoosh above the word "Optoma" in a bold, sans-serif font.

FCC Notice - Declaration of Conformity Information

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

WARNING: Only peripherals complying with the FCC class B limits may be attached to this equipment.

Changes or modifications made to this equipment, not expressly approved by us or parties authorized by us could void the user's authority to operate the equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

INTRODUCTION

High-End multi-channel amplifier for uncompromised Home Theater sound.

The NuForce MCA-18 multi-channel amplifier was developed for the audio enthusiast as an audiophile-grade alternative to the plethora of consumer-grade amps being offered for Home Theater applications. Offering quality parts throughout and advanced, high-efficiency switching amplifier operation, the MCA-18 delivers genuine NuForce performance and value.

The MCA-18 delivers a full 110 Watts into 4-Ohms per channel. Sharing technology with NuForce's award-winning V3 mono amplifiers, it renders all of your recordings and sound tracks with thundering lows, crystalline highs, and a warm, tube-like midrange - all in perfect balance.

Proprietary feedback circuitry operates as the cornerstone of the MCA-18's sound quality. A self-resonant design, the 400 kHz PWM switching frequency constantly adjusts to the input signal, output current demands, and loudspeaker impedance variations. Incredible speed and accuracy ensure that the most explosive dynamics and the minutest of details convey the kind of lifelike sound upon which NuForce's reputation rests.

To be sure, the MCA-18 is destined to find its place as the driving force in a great many music and A/V systems. When it comes to mating with today's modern Home Theater components, the MCA-18's power, transparency and sophistication defy the competition at its price point. Where sound performance and value matter, nothing less will do.

Innovative Features

- High power - 110 Watts (x8) channels
- Modest size and modern construction
- Proprietary high-speed, negative feedback design
- Very high efficiency PWM circuit topology
- Available in stylish Black finish

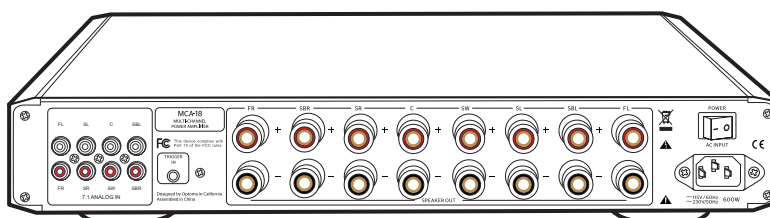
QUICK START GUIDE

Product Overview

Front Panel



Back Panel



- To power on the unit, please turn on the rear AC switch, then press the power button on the front panel.

Connections

- Input: 8 x RCA
- Output: 8 x Five-way binding posts
- Speaker Output: Connect the speaker cables between the output terminals of the MCA-18 and each of the respective loudspeakers. In order to avoid any damage that might be caused by shorting the output stage of the MCA-18, please make sure the unit is turned off before connecting your speakers. In addition, while paying close attention to proper polarity, make sure that the speaker cables are securely terminated to both the loudspeakers and the MCA-18 before turning on the power.

SPECIFICATIONS

Input	8 x RCA
Output	8 x Five-way binding posts
Power Output	110W/Ch. X 8 (4 ohm), 155W/Ch. X 8 (8 ohm)
Peak Power Output	150W/Ch. X 8 (4 ohm), 180W/Ch. X 8 (8 ohm)
Gain	23 dB
Input Impedance	25k ohm
Sensitivity	1.38 V to rated power
THD+N	0.01%
Frequency Response	10 Hz - 50kHz
S/N Ratio	> 89dB
Dimensions (Depth x Width x Height)	13.4 inches (34.1 cm) x 17 inches (43.0cm) x 3.1 inches (8.1 cm)