MX132 A/V Control Center + Processor
MC7205 5-Channel Power Amplifier
The awesome sonic potential of DVD movies with Dolby Digital® practically begs for McIntosh-quality reproduction. The MX132 and MC7205 are the foundation for a powerful and engaging home theater experience. The MX132 features the absolute finest digital processing engine available for surround sound. As the “brains” of a home theater system, its roster of capabilities may astonish even the most jaded scorekeepers. The MX132 is logically organized, handles audio and video signals in purist fashion, and integrates elegantly with other McIntosh systems and components.
Featured Technologies

24-BIT SIGNAL PROCESSING (MX132). The MX132 features one of the most powerful DSP engines available. Three Motorola 24-bit digital signal processors decode Dolby Digital®, Pro Logic, and DTS® soundtracks. One divides a digital bit stream into the Dolby Digital and Pro Logic channels. Another is dedicated to decoding DTS. The third handles bass-channel management as well as ancillary functions. Except in pure Stereo mode, all analog inputs are processed by a 24-bit stereo A/D converter. Three additional 24-bit D/A converters handle the DSP output.


TRIM SELECT (MX132). Settings for subwoofer, surround speakers, center speaker, treble, bass, loudness, and display can be adjusted using the TRIM LEVEL knob or via remote. The settings are shown on the MX132's large display. For each operating mode only the appropriate trim options can be accessed.

ON-SCREEN SETUP (MX132). All speaker size selection, room calibration, and custom sound enhancement features can be set from the listening position via remote control.

CONTROL DATA OUTPUTS (MX132). To facilitate system integration, the MX132 outputs control data for source components. This allows remote operation of non-McIntosh components either by direct connection to compatible data inputs or via a McIntosh Remote Translator.

REMOTE POWER CONTROL (MX132 + MC7205). The MC7205 receives power on/off data via its cable link to the MX132. In addition, power control jacks provide the same capability when the units are used independently. A special multipin jack on the MX132 connects to the PC3 AC Power Controller (see “Companions” section).

SUPER-TRACKING VOLUME CONTROL (MX132). Level differences among channels in a stereo or surround system compromise sound imaging. The MX132 uses an electronic volume control with tracking accuracy better than 0.5dB for all six channels.

ACTIVE VARIABLE LOUDNESS COMPENSATION (MX132). Typical loudness circuits apply a fixed amount of compensation for listening at low volume. The MX132 includes a separate loudness circuit that applies compensation proportionately. When off, the loudness circuit elements are completely removed from the signal path.

MATCHED AND BUFFERED VIDEO SWITCHING (MX132). High-resolution video sources such as DVDs demand high-quality video switching. Each MX132 video input is terminated with 75 ohms to maintain a proper impedance match. Video buffer amps feed the two monitor video outputs, ensuring no loss in picture quality. Built-in digital comb filters convert composite video to S-video, allowing use of S-video outputs for all video sources.

AUTOMATIC INPUT LEVEL CONTROL (MX132). The analog input to the DSP features a circuit similar to the Power Guard® used in McIntosh amplifiers. AILC continuously monitors input voltage and if overdrive occurs reduces the input level, preventing distortion.

BALANCED CONNECTIONS (MX132 Zone B). A balanced connection provides 40dB more noise protection than an unbalanced connection. The balanced output of the MX132’s Zone B allows distant placement of a Zone B amp without compromising sound.
EXCLUSIVE MCINTOSH POWER ASSURANCE SYSTEM (MC7205). Power Assurance is a collection of technologies that enhance performance and reliability and protect the amp and speakers.

**Power Guard**® clipping protection. Power Guard ensures that the amplifier will always deliver full power without causing clipping distortion. If an amplifier channel is overdriven, Power Guard automatically reduces the input volume just enough to keep distortion below 2% and prevent any clipping distortion. Thanks to an optical resistor, Power Guard acts literally at the speed of light, producing absolutely no audible side effects. An amplifier with Power Guard will actually deliver clipping-free output well above its rated power.

**Sentry Monitor**® current protection. Sentry Monitor continually senses the voltage and current of the output stage and confines it to a safe limit. Sentry Monitor does not limit power output.

**Thermal Cutout.** If the cooling air is blocked and the power transistors become too hot, thermal cutouts protect against overheating until the amp cools.

**Turn-On Delay.** This circuit delays operation for about two seconds after turn-on in order to avoid any pops or thumps generated as other equipment turns on.

**Soft Start inrush protection.** Thermistors in the power transformer act as a cushion against inrush current, eliminating component stress during turn-on.

**ILLUMINATED PEAK-RESPONDING METERS (MC7205).** McIntosh meters respond 95% full scale to a single-cycle tone burst at 2kHz. Response is almost 10-times faster than a professional VU meter. In the MC7205, a four-position switch selects the channels to be monitored by the three meters. When the MC7205 and MX132 are linked via the single cable connection, the correct meter mode is selected automatically. The meter illumination can also be switched off.

**Featured Technologies (cont’d.)**

**EXCLUSIVE MCINTOSH POWER ASSURANCE SYSTEM (MC7205).** Power Assurance is a collection of technologies that enhance performance and reliability and protect the amp and speakers.

**Power Guard**® clipping protection. Power Guard ensures that the amplifier will always deliver full power without causing clipping distortion. If an amplifier channel is overdriven, Power Guard automatically reduces the input volume just enough to keep distortion below 2% and prevent any clipping distortion. Thanks to an optical resistor, Power Guard acts literally at the speed of light, producing absolutely no audible side effects. An amplifier with Power Guard will actually deliver clipping-free output well above its rated power.

**Sentry Monitor**® current protection. Sentry Monitor continually senses the voltage and current of the output stage and confines it to a safe limit. Sentry Monitor does not limit power output.

**Thermal Cutout.** If the cooling air is blocked and the power transistors become too hot, thermal cutouts protect against overheating until the amp cools.

**Turn-On Delay.** This circuit delays operation for about two seconds after turn-on in order to avoid any pops or thumps generated as other equipment turns on.

**Soft Start inrush protection.** Thermistors in the power transformer act as a cushion against inrush current, eliminating component stress during turn-on.

**ILLUMINATED PEAK-RESPONDING METERS (MC7205).** McIntosh meters respond 95% full scale to a single-cycle tone burst at 2kHz. Response is almost 10-times faster than a professional VU meter. In the MC7205, a four-position switch selects the channels to be monitored by the three meters. When the MC7205 and MX132 are linked via the single cable connection, the correct meter mode is selected automatically. The meter illumination can also be switched off.
MC7205 5-Channel Power Amplifier

FEATuRES
5-channel power amplifier for home theater and music
Single-cable connection to McIntosh MX132
5 x 200 watts (4 ohms) or 5 x 120 watts (8 ohms)
Lucasfilm® Home THX® certified
Wide power bandwidth

Ultra-low distortion
Exclusive McIntosh Power Assurance System:
- Power Guard® clipping protection
- Sentry Monitor® current protection
- Thermal Cutout
- Turn-On Delay
- Soft Start inrush protection
Illuminated peak-responding meters (3) with 4-position monitoring switch and auto mode selection with MX132
Remote power control
Low-noise toroid power transformer
Gold-plated high-current output terminals
Fanless convection cooling
Modular construction with steel chassis
Glass front panel with illuminated nomenclature

MX132 A/V Control Center + Processor

FEATuRES
A/V Control Center + Processor
Single-cable connection to McIntosh MC7205
5-Channel Power Amplifier
Single-cable connection to McIntosh CR12 Multizone
A/V Control Center (MX132 becomes “master” preamp)
24-bit DSP Dolby Digital®, Pro Logic, and DTS® decoders
24-bit D/A converters
24-bit A/D conversion of analog source signals
THX® ULTRA certified
Home THX Cinema enhancements
Switchable dynamic compressor for “late night” Dolby Digital
Stereo mode (no DSP) for 100% pure analog sound
Built-in AM/FM tuner with high-performance RAA1 remote AM antenna
11 audio and video source selections with re-assignable naming
6 digital audio inputs (can create a digital processor loop)
2 digital outputs (can connect to a CD recorder or external processor)
Automatic Input Level Control (AILC)
Precision volume control
Active Variable Loudness Compensation
Control data output for source components
Matched and buffered video switching
S-video and composite video connections with composite-to-S converter
Automatic mode switching between Dolby Digital, Pro Logic, and DTS
Auto-memory recall of last mode setting for each input
LED indicators for mode and speaker configuration
Internal signal source for system calibration
On-screen assistance for speaker size, room calibration, and sound enhancements
On-screen adjustable 6-speaker time delay (Speaker Position Time Synchronization)
Remote control of all mode and trim settings for easy setup and calibration
Permanent (non-volatile) memory of all system settings
Independent listen and record selection
Dual-zone operation using record selection for Zone B
Independent remote control of Zones A and B
Independent bass, treble, and output level trim for Zone B
Balanced audio outputs for Zone B
Keypad controller connections (also compatible with Xantech sensors)
Remote operation of lights, screens, and drapes with McIntosh HC1 Home Controller
Remote power control
Gold-plated input and output jacks
Modular construction with steel chassis
Glass front panel with illuminated nomenclature
Infrared remote control

Manufactured under license from Dolby Laboratories Licensing Corporation. Additionally licensed under one or more of the following patents: U.S. number 3,959,590; Canadian numbers 1,004,603 and 1,037,877. Dolby, Pro Logic, AC-3, and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.
Manufactured under license from DTS Technology, LLC. DTS, Digital Surround, and Coherent Acoustics are registered trademarks of DTS Technology, LLC.
Manufactured under license from Lucasfilm Ltd. Additionally licensed under the following patent: U.S. number 5,043,970. Foreign patents pending.
THX and Home THX Cinema are registered trademarks of Lucasfilm Ltd.
MX132 A/V Control Center + Processor

SPECIFICATIONS

Frequency Response
Mono and stereo:
L,C,R channels (large speakers)
20Hz to 20kHz, +0 / -0.5dB

Dolby Pro Logic:
L,C,R channels
20Hz to 20kHz, ± 0.5dB
LS, RS channels
20Hz to 7kHz, +0 / -3dB

Dolby Digital, DTS, and ext. processor input:
L,C,R and LS, RS channels
20Hz to 20kHz, +0 / -0.5dB

Subwoofer channel, low pass
10Hz to 80Hz corner frequency
with 24dB per octave rolloff

All modes:
Subwoofer channel, low pass
10Hz to 80Hz corner frequency
with 24dB per octave rolloff
Note: High pass rolloff is 12dB per octave when using small speakers

Rated Voltage Output
2Vrms

Maximum Voltage Output
9.5Vrms

Output Impedance
47 ohms

Total Harmonic Distortion
0.005% max. all channels from
20Hz to 20kHz

Input Sensitivity
Line level: 400mV
Dolby level: 200mV input
External processor ref. level:
200mV input

Maximum Input Signal
High level: 6V

S/N Ratio (A-Weighted)
100dB (> 90dB below ref. level)

Voltage Gain
High level to tape: 0dB
High level to main: 14dB

Tone Controls
Bass and treble: ±12dB

FM SECTION
Useable Sensitivity
14dB (1.4uV across 75Ω)

50dB Quieting Sensitivity
Mono: 19dB (2.4uV across 75Ω)
Stereo: 35dB (15uV across 75Ω)

Signal-to-Noise Ratio
Mono: 75dB  • Stereo: 70dB

MC7205 5-Channel Power Amplifier

SPECIFICATIONS

RMS Power Output
200W (4Ω) or 120W (8Ω) min. sine wave continuous average power output per channel with all channels operating

Output Load Impedance
8 or 4 ohms

Rated Power Band
20Hz to 20kHz

Peak Output Current
> 25 amperes

Total Harmonic Distortion
0.005% max. at any level from
250 milliwatts to rated output per channel from 20Hz to 20kHz with
all channels operating

Intermodulation Distortion
0.005% max. if instantaneous
peak output does not exceed
twice the output power rating

Dynamic Headroom
1.6dB

Frequency Response
Mono: 20Hz to 15kHz, +0 / -1dB
Stereo: 20Hz to 15kHz, +0 / -1dB

S/N Ratio (A-Weighted)
113dB below rated output

Wide Band Damping Factor
200 (8Ω)
100 (4Ω)

Power Guard®
Clipping is prevented and THD
does not exceed 2% with up to
14dB overdrive at 1kHz

Power Requirements
120V 50/60Hz, 85W

Dimensions (h x w x d)
inch: 7.125 x 17.5 x 21
cm: 18.1 x 44.5 x 53.2
knob clearance: 1.125" (2.9 cm)

Weight
32.5 lbs. (14.8kg) net
53.5 lbs. (24.3kg) shipping

 McIntosh Laboratory, Inc., 2 Chambers Street, Binghamton, New York 13903
tel (607) 723–3512 • U.S. toll-free (888) 979–3737 • fax (607) 772–3308 • www.mcintoshlabs.com
0999.MX132.25k.essecomm