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AV8003/MM8003 Home Theater Separates

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NETWORKING AV PREAMP/PROCESSOR

The best contemporary technology. Traditional Marantz quality. The AV8003 is more than just an outstanding A/V processor. It unites all your entertainment possibilities: Movies, music, photos, even streaming audio and video. And the AV8003 does it in a single room or throughout your home. This is enjoyment raised to the level only Marantz panache can reach.

Any home entertainment component, especially a "net-friendly" A/V preamp/processor/tuner, demands a high capacity and well shielded power supply. That's why Marantz engineers specified an oversized toroidal transformer and encased it in an anti-magnetic steel shield for even greater stray flux control. And placed a multi-segment capacitor array so each circuit receives optimum operating current. Because interference often comes from outside as well as inside, they gifted the AV8003 with a heavy copper-plated steel chassis to lock out electromagnetic and radio frequency noise as well as external vibrations. On the practical side, the chassis is less deep than conventional designs too, so the AV8003 fits where others often don't.

Inside the chassis, you'll find premium parts carefully arranged in a short-signal-trace configuration so to minimize degradation. In testimony to this meticulous care, the AV8003 merits a THX Ultra 2 certificate! So you can rest assured that this processor sits at the top of the performance scale. The AV8003 handles the latest audio sources such as Dolby TrueHD and dts-HD Master Audio for the best no-compromise sound from today's advanced media. Connections abound for both contemporary and heritage sources, too, so you'll have no trouble connecting even tape or CD recorders. Tuning the AV8003's output to complement the acoustics of your main listening/viewing area is easy and extraordinarily accurate thanks to Audyssey's MultEQ. It automatically analyzes your room to create a perfectly matched soundfield.

Four HDMI inputs and two HDMI outputs (all adhering to the newest version 1.3 specs) complement composite, S-, and component video capability. The AV8003 supports Deep Color and xvYCC Color Space for even better video performance when these technologies appear. Even analog audio outputs benefit from a no-holds-barred approach. Balanced connections via XLRs (configured to the "pin 2 = hot" standard) insure noise-free signal transfer from the AV8003 to a multichannel power amplifier such as Marantz' new eight -channel MM8003. For today's video sources, the AV8003 incorporates the latest processing and scaling (up to 1080p) capability from Anchor Bay Technologies. So the video image you'll see will be mountain-air clear.

If you're worried about the sound quality of compressed audio formats like MP3 or WMA or terrestrial AM and FM radio broadcasts, relax. M-DAX (Marantz Dynamic Audio Expander) recreates the missing high frequency spectrum so well that you might mistake even a low bit rate MP3 file for a CD! In addition to AM, FM, and HD Radio capability, the AV8003 is XM and Sirius satellite radio-ready! Just add an XM Mini-Tuner and dock or a Sirius Connect® home tuner kit. The connections are built in. Of course, you'll need a subscription to enjoy these satellite broadcasts but the AV8003 makes things easy indeed.

As impressive as these capabilities are, the real story behind the AV8003 is its networking prowess. The rear panel Ethernet port lets you stream audio and video from your computer, NAS (network-attached storage) device, or Escient Fireball, etc., throughout your home. And that includes photos – JPEG or BMP format – so you can display your vacation shots on the big screen with musical accompaniment! In line with this capability, the AV8003 handles MP3, AAC, WMA, and WAV audio files. And it supports MPEG2 and MPEG4 video formats as well as WMV. Three zone audio and video distribution means you won't be restricted to one-room enjoyment either. With the AV8003, you can watch or listen to movies, music, and other entertainment files wherever it's most convenient. And automatic firmware updates mean you never have to worry about having the latest version when your AV8003 is connected to the web. Installation ease and connectivity are paramount. There's an RS232 port for control, internal IR repeater functions (input and output), two 12-volt DC "trigger" outputs, a detachable AC cord, and an easy front panel "key lock" so younger family members or guests can't accidentally change system setup parameters. And there are two remotes, one computer-programmable full-function hand held, and a simpler "zone" remote for a secondary room.

We haven't neglected the classic "Marantz aesthetics" either. Rather than the flat front panels common to lesser home entertainment components, the AV8003's radiused corners, three-dimensional design, and simplified control layout add a touch of designer elegance that complements any décor. This elegant look reflects the Marantz heritage of outstanding industrial design begun by Saul B. Marantz himself. Both internally and externally, the AV8003 is the newest expression of our continual quest for excellence in performance and aesthetics. Marantz tradition and today's technology in harmony for your enjoyment.

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FEATURES

MULTICHANNEL/SURROUND

Number of Channels	7.1 channels
THX	ULTRA2
DTS (ES, Discrete 6.1/ Matrix 6,1, Neo-6)	(DTS HD Master Audio)
Dolby Digital EX	(Dolby TrueHD)
Dolby Pro Logic IIx	•
Circle Surround II	•

SOUND ENHANCEMENTS

HDCD Decoder	•
Current Feedback Topology	-
Discrete Amplification	-
Power Transformer	Toroidal
D/A Conversion	192kHz/24bit
Digital Signal Processing	TI 32bit
Video Off	•
Source Direct	(also Pure Direct)
Chassis	Copper Plated
Variable X-over	•
Display Off	•
Video Up-conversion	•
Auto Calibration	Audyssey MultEQ
XM/Sirius-Ready	•
AM/FM tuner	Analog AM/FM + HD Radio
Bass management	•
Lip-sync (digital audio delay)	•
Software Upgradable	•

IN/OUTPUTS

VIDEO

HDMI In	4
Component In	4
S-Video In	4
Composite In	4
HDMI Out	2 (Discrete Commands for each output)
Component Out	2
S-Video Out	3 (incl. Monitor Out)
Composite Out	4 (incl. Monitor Out&Multi Zone Out)

AUDIO

Analog L&R In	Balanced: x1 (CD), Unbalanced: x6 (incl. CD(Exclusive use))
Analog L&R Out	4
Digital Optical In	3
Digital Coaxial In	3
Digital Optical Out	1
Digital Coaxial Out	1
Other	-

IN/OUTPUTS (continued)

OTHER

Pre-Amplifier Out	Balanced: 7.1ch x1, Unbalanced: 7.1ch x1
Main Amplifier In	-
Multi-Channel In	Unbalanced: 7.1ch x1set
Multi-Room Audio Out	Analog L/R x2
Multi-Room Video Out	Component x1, Video x1
Multi-Room Speaker Out	-
Speaker A/B	-
Networking	-
External control	•
DC Triggers	2
D-Bus Remote (RC-5) In/Out	•
Flasher In/IR Receiver In/Emitter out	1/1
Front Panel A/V Inputs	-
Headphone Out	(Dolby Headphone)
AC Outlets (Switched/Unswitched)	-

SPECIFICATIONS

AUDIO SECTION

Power Output (8 Ohm)	-
S/N Ratio	105dB (Analog Input, Pure Direct Mode)
Freq. Response (Analog In)	8Hz - 100kHz (+/- 3 dB, Pure Direct Mode)
Freq. Response (Dig In)	8Hz - 45 kHz (+/- 3dB, 96kHz PCM)

TUNER SECTION FM

Frequency Range	87.5 - 107.9 MHz
S/N Ratio (Mono/Stereo)	75/70dB

TUNER SECTION AM

Frequency Range	530 - 1710 kHz
S/N Ratio	50dB

VIDEO SECTION

Video Freq. Response (Component)	5Hz - 100MHz (-3dB)
Video Freq. Response (Composite, S-Video)	5Hz - 8MHz (-1dB)
Signal to Noise	60dB

GENERAL

Color	Black
Front Panel	Aluminum
Remote Control	RC2001 (Main Zone) + RC101 (Multi Zone)
Power Requirement	AC 120V 60Hz
Power Consumption	85W
Dimensions W" x H" x D" (Inches)	17-5/16 x 7-5/16 x 15-3/16
Weight (lbs)	25.6
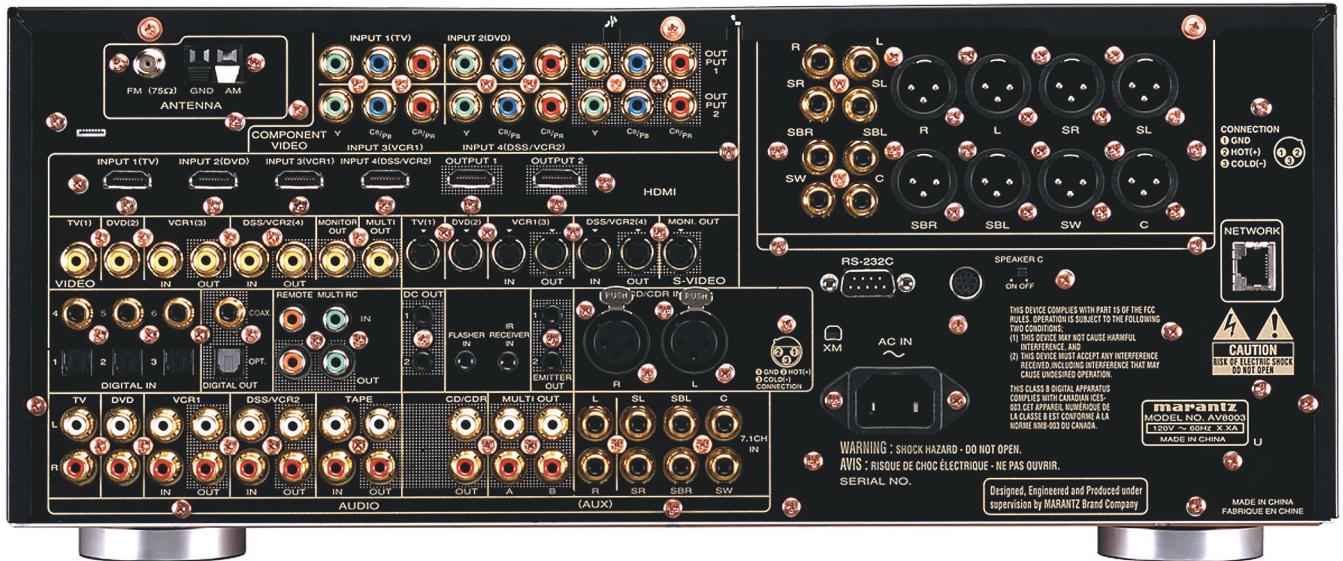
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*All specifications, dimensions and weights are subject to change without notice.

8 CHANNEL POWER AMPLIFIER

As a stand-alone multi-channel power amplifier or the perfect complement to the AV8003 preamplifier/processor/tuner, the MM8003 provides Marantz-level performance to power the most advanced A/V systems. Eight channels. A massive power supply. Output devices from our renowned Reference products. Easy connectivity. Flexible, configurable operation. Multi-channel has never been this easy. Or this good. What else would you expect from Marantz?

The MM8003 power amplifier produces 140 watts of high current output from each of its eight channels. And this is the "real deal", measured across the full audio bandwidth (20 Hz – 20 kHz) at 8 ohms with less than 0.08% THD!

In practical terms, this makes the MM8003 an ideal amplifier for a "7.1" system even if that system includes a high quality passive "in-wall" subwoofer. Alternatively, you can opt for stereo output to each of four different rooms and turn each room on and off individually! How's that for flexibility?

The massive power supply includes a multiple-secondary toroidal transformer rated at 600 VA and 100,000 μF of custom-designed capacitors mounted in copper-plated, anti-vibration brackets. Critical circuit components from WIMA and other world-class suppliers were chosen only after extensive auditory evaluation. The LAPT Hyper Power devices are the same that we use in the highly acclaimed PM-11 Reference Series amplifier. Current feedback topology insures astounding accuracy and control even under high-drive conditions.

Physically, the MM8003's output stages mount on an extruded aluminum "thermal tunnel" for efficient heat dissipation. With four channels on each side of the tunnel and temperature-sensing forced air cooling, this configuration assures long-term dependability.

Balanced inputs for each channel adhere to the Audio Engineering Society's "pin 2 = hot" standard. Single-ended RCA inputs complement the balanced XLR connections. And you can choose either balanced or single ended inputs for each channel individually for easy connectivity. Audiophile grade, gold-plated speaker outputs insure tight connections to your choice of speaker wire.

The MM8003 features a "soft turn-on" circuit that prevents excessive inrush current from tripping an AC breaker or fuse. In addition, you'll find both input and output jacks for DC "trigger" pulses as well as RC5 jacks for total remote control convenience.

The chassis itself in heavy gauge copper-plated steel for maximum isolation from external vibration as well as electromagnetic and radio frequency interference. And chassis depth is less than 16" so the MM8003 will fit quite nicely in a conventional system rack.

The subtly three-dimensional front panel adds the classic Marantz design touch. The physical attributes of extruded aluminum and glass-reinforced resin combine ideally for a shaped look that integrates with any décor.

Power. Functionality. Dependability. And classic looks. The MM8003 is Marantz through and through.

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MM8003 8 CHANNEL POWER AMPLIFIER

FEATURES

MULTICHANNEL/SURROUND

Number of Channels	8

SOUND ENHANCEMENTS

Current Feedback Topology	•
Discrete Amplification	•
Power Transformer	Toroidal
Chassis	Copper Plated

IN/OUTPUTS

AUDIO/OTHER

Main Amplifier In	Balanced & Unbalanced: 8 Channel
	(Exclusive use by a selector switch)
Flasher In/IR Receiver In/Emitter	Flasher In: 1
AC Outlets (Switched/Unswitched)	1 (Switched)

SPECIFICATIONS

AUDIO SECTION

Power Output (8 Ohm)	140W (20Hz - 20kHz, 0.08%)
S/N Ratio	105dB
Freq. Response (Analog In)	8Hz - 100kHz (+/- 3dB)

GENERAL

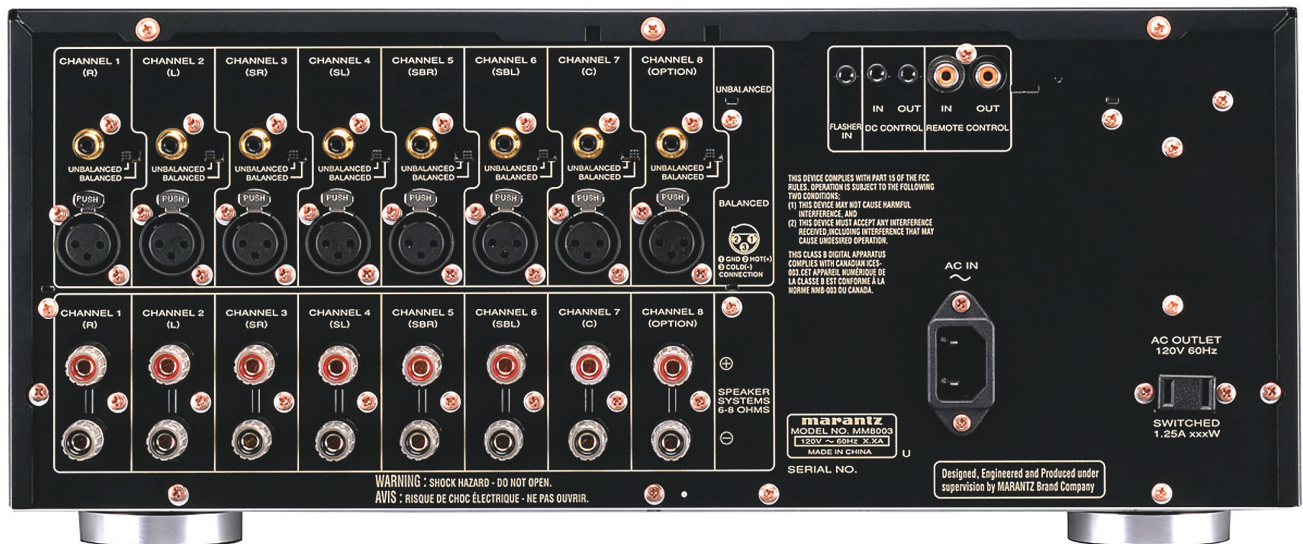|	
Color	Black
Front Panel	Aluminum
Remote Control	-
Power Requirement	AC 120V 60Hz
Power Consumption	800W
Dimensions W" x H" x D" (Inches)	17-3/8 x 7-5/16 x 15-1/8
Weight (lbs)	39.5

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