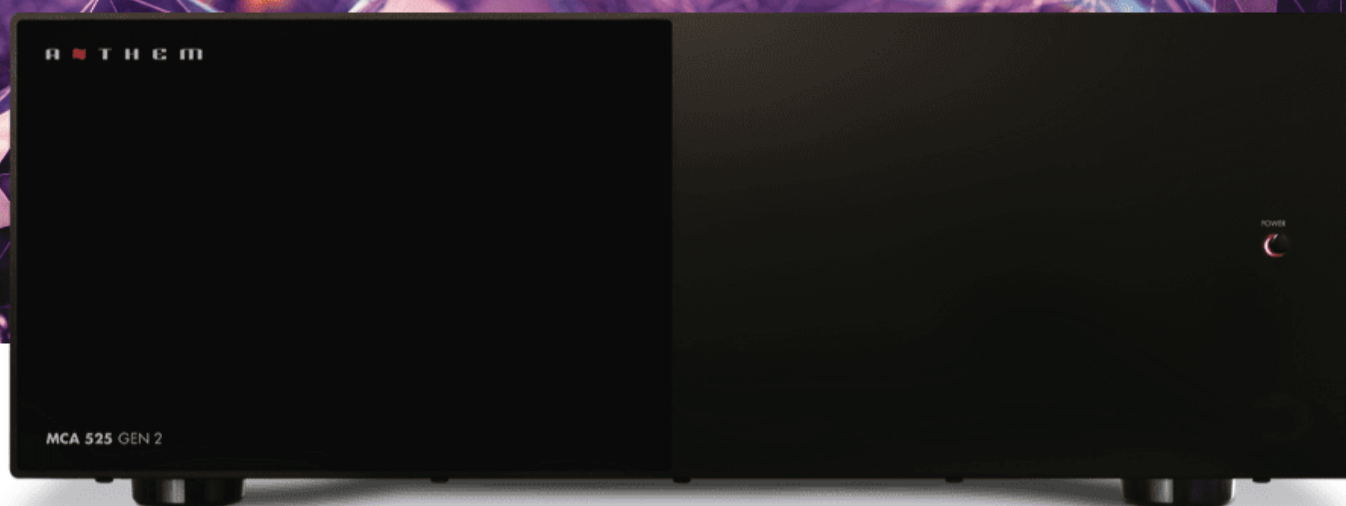


A  T H E M[®]

MCA 525 / 325 / 225

GENERATION 2

AMPLIFIER



OPERATING MANUAL

SAFETY PRECAUTIONS



CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL

THE LIGHTNING FLASH WITH ARROWHEAD SYMBOL WITHIN AN EQUILATERAL TRIANGLE IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE OF SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.

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WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE, AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.

CAUTION: FOR CONTINUED PROTECTION AGAINST RISK OF FIRE, REPLACE THE FUSE ONLY WITH THE SAME AMPERAGE AND VOLTAGE TYPE. REFER REPLACEMENT TO QUALIFIED SERVICE PERSONNEL.

CAUTION: TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

WARNING: UNIT MAY BECOME HOT. ALWAYS PROVIDE ADEQUATE VENTILATION TO ALLOW FOR COOLING. DO NOT PLACE NEAR A HEAT SOURCE, OR IN SPACES THAT CAN RESTRICT VENTILATION.

IMPORTANT SAFETY INSTRUCTIONS:

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with a dry cloth.
7. Do not block any of the ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. When the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles and the point where they exit from the apparatus.
11. Only use the attachments/accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus.
13. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
14. Unplug this apparatus during lightning storms or when unused for long periods of time.
15. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

WARNING:

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. Avoid installing this unit where foreign objects may fall onto this unit and/or this unit may be exposed to liquid dripping or splashing. On the top of this unit, do not place:

- Burning objects (i.e. candles), as they may cause fire, damage to this unit, and/or personal injury.
- Containers with liquid in them, as they may fall and liquid may cause electrical shock to the user and/or damage to this unit.

Apparatus shall not be exposed to dripping or splashing and no objects filled with liquids, such as vases, shall be placed on the apparatus.

Do not install this equipment in a confined space such as a case or similar. Install it away from direct sunlight, heat sources, vibration, dust, moisture, and/or cold.

Do not cover this unit with a newspaper, tablecloth, curtain, etc. in order not to obstruct heat radiation. If the temperature inside this unit rises, it may cause fire, damage to this unit, and/or personal injury.

Install this unit near the AC outlet and where the AC power plug can be reached easily.

This unit is not disconnected from the AC power source when it is turned off. This state is called the standby mode. In this state, this unit is designed to consume a very small quantity of power.

NOTE:

This product is not an auto voltage Amplifier. Connect only to the prescribed AC outlet, i.e., 120V 60Hz or 240V 50/60Hz.

CAUTION:

Top surface can become hot.

CAUTION:

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions, unless you are qualified to do so.

CAUTION:

Changes or modifications to this equipment not expressly approved by Paradigm Electronics for compliance could void the user's authority to operate this equipment.

FCC WARNING:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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 generates, 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 amplifier.
- Connect the equipment into an outlet on a circuit different from that to which the amplifier is connected.
- Consult the dealer or an experienced radio / TV technician for help.

IMPORTANT INFORMATION FOR UK CUSTOMERS:

DO NOT cut off the mains plug from this equipment. If the plug fitted is not suitable for the power points in your home or the cable is too short to reach a power point, then obtain an appropriate safety approved extension lead or consult your dealer. If, nonetheless, the mains plug is cut off, REMOVE THE FUSE and dispose of the PLUG immediately, to avoid possible shock hazard by inadvertent connection to the mains supply. If this product is not provided with a mains plug, or one has to be fitted, then follow the instructions given below:

IMPORTANT: DO NOT make any connection to the larger terminal which is marked with the letter "E" or by the safety earth symbol or colored GREEN or GREEN AND YELLOW.

The wires in the mains lead on this product are colored in accordance with the following code:

BLUE - NEUTRAL
BROWN - LIVE

As these colors may not correspond with the colored markings identifying the terminals in your plug, proceed as follows:

The BLUE wire must be connected to the terminal marked with the letter "N" or colored BLACK.
The BROWN wire must be connected to the terminal marked with the letter "L" or colored RED.

When replacing the fuse, only a correctly rated and approved type should be used, and be sure to re-fit the fuse cover. If in doubt consult a competent electrician.

NOTES ON ENVIRONMENTAL PROTECTION:

At the end of its useful life, this product must not be disposed of with regular household waste but must be returned to a collection point for the recycling of electrical and electronic equipment. The symbol on the product, user's manual and packaging, point this out. The materials can be reused in accordance with their markings. Through re-use, recycling of raw materials or other forms of recycling of old products, you are making an important contribution to the protection of our environment. Your local administrative office can advise you of the responsible waste disposal point.

RECYCLING AND REUSE GUIDELINES (Europe):

In accordance with the European Union WEEE (Waste Electrical and Electronic Equipment) directive effective August 13, 2005, we would like to notify you that this product may contain regulated materials which, upon disposal, require special reuse and recycling processing. For this reason Paradigm Electronics Inc. (the manufacturer of Paradigm speakers and Anthem electronic products) has arranged with its distributors in European Union member nations to collect and recycle this product at no cost to you. To find your local distributor please contact the dealer from whom you purchased this product or go to our website at www.paradigm.com.

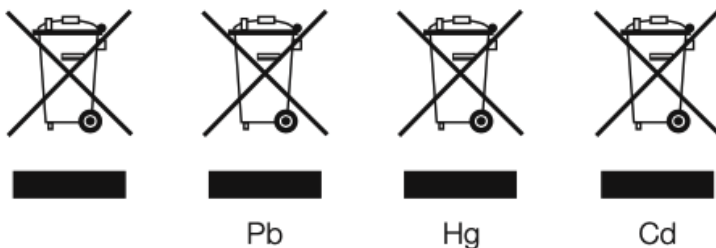
Please note that only the product falls under the WEEE directive. When disposing of packaging and other shipping material we encourage you to recycle through the normal channels.

INFORMATION ABOUT COLLECTION AND DISPOSAL OF WASTE BATTERIES (DIRECTIVE 2006/66/EC OF THE EUROPEAN PARLIAMENT AND THE COUNCIL OF EUROPEAN UNION)

(for European customers only)

Batteries bearing any of these symbols indicate that they should be treated as "separate collection" and not as municipal waste. It is encouraged that necessary measures are implemented to maximize the separate collection of waste batteries and to minimize the disposal of batteries as mixed municipal waste. End-users are exhorted not to dispose waste batteries as unsorted municipal waste. In order to achieve a high level of recycling waste batteries, discard waste batteries separately and properly through an accessible collection point in your vicinity. For more information about collection and recycling of waste batteries, please contact your local municipality, your waste disposal service or the point of sale where you purchased the items.

By ensuring compliance and conformance to proper disposal of waste batteries, potential hazardous effects on human health is prevented and the negative impact of batteries and waste batteries on the environment is minimized, thus contributing to the protection, preservation and quality improvement of the environment.



Anthem and any related party assume no liability for the user's failure to comply with any requirements.

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- 1.2** In-Use Notices
- 1.3** Rack-Mounting

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- 2.2** Speaker Connections
- 2.3** On Modes
- 2.4** Front Panel
- 2.5** Rear Panel

MEASURED PERFORMANCE

LIMITED WARRANTY

INTRODUCTION

1.1 BEFORE MAKING CONNECTIONS

Check that you have received all items listed below and report discrepancies to your dealer as soon as possible. In case the unit needs to be transported in the future, keep the packing materials. **Retain the invoice that you received from your authorized Anthem dealer at time of purchase - without it, service will not be provided under warranty.**

Packing List:

- Amplifier
- Power cord

Safety Instructions:

- Read all safety precautions and instructions at the beginning of this manual.
- Do not connect power if there are any signs of damage to any part of the exterior.
- The front panel power button does not disconnect the product from the AC line. Ensure that the power cord remains readily accessible at all times.
- To connect power, only use the supplied double-insulated power cord.
- Allow adequate ventilation to ensure reliable operation and to prevent overheating. The amount of space required above the unit for radiation depends on ambient air temperature and circulation. Installation inside a cabinet with a front that can be closed is not recommended unless a fan is also installed to adequately draw air away from the top of the unit.
- Failing to comply with any safety instruction, precaution, or warning in this manual is in violation of the intended use of the product.
- Anthem and any related party assume no liability for the user's failure to comply with requirements.

1.2 IN-USE NOTICES

- Disconnect the power cord before connecting or disconnecting any components.
- If the amplifier was transported or stored in the cold, let it reach room temperature before use.
- Do not remove the top cover.
- Do not modify the product.
- Due to continuing advances, operational characteristics may change.

1.3 RACK-MOUNTING

An optional rack-mount kit is available to custom installers.

CONNECTIONS AND OPERATION

2.1 INPUT CONNECTIONS

Balanced XLR connection offers the highest transmission quality, particularly over long cable lengths, because it rejects noise and hum pickup. If your preamplifier does not have XLR outputs, use the RCA outputs.

Do not use “RCA-compatible” connectors that have a hollow center pin with a hole at its tip. They can damage the amplifier’s RCA jack internally while being inserted.

2.2 SPEAKER CONNECTIONS

Depending on the level of the input signal, the voltage at the outputs can be high enough to cause electric shock – be sure that power is turned off when connecting or disconnecting anything. As well, be sure that the speakers are rated for use with this amplifier – an overdriven speaker can pose a fire hazard.



Connect the red (+) connection on the speaker to the red (+) binding post on the amplifier, and the black (-) connection on the speaker to the black (-) binding post on the amplifier using cable that is insulated to handle the maximum output of the amplifier. Do not overtighten the binding posts as this may cause damage. The binding post pair accepts a connection from one speaker.

2.3 ON MODES

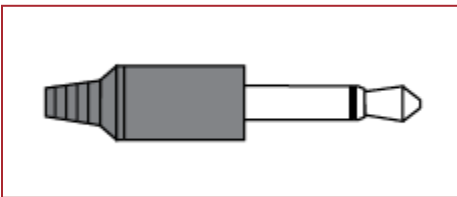
With the three-way switch located on the rear panel, you can set the way the amplifier is turned on and off. To use Trigger-On, connect a standard 3.5mm (1/8”) mono mini plug cable between the amplifier and the preamplifier or control component. Once all other connections are made, connect the power cord to the amplifier and then the wall outlet.

Manual-On:

When in this position, the amplifier is turned on/off via the power button on the front panel.

Trigger-On:

This feature allows the amplifier to be turned on or off remotely via the trigger. The 3.5mm (1/8”) mini-jack IN receives power (5-24 volts DC) from an upstream component or system controller. The same trigger signal can be linked to trigger inputs on other units through the OUT jack.

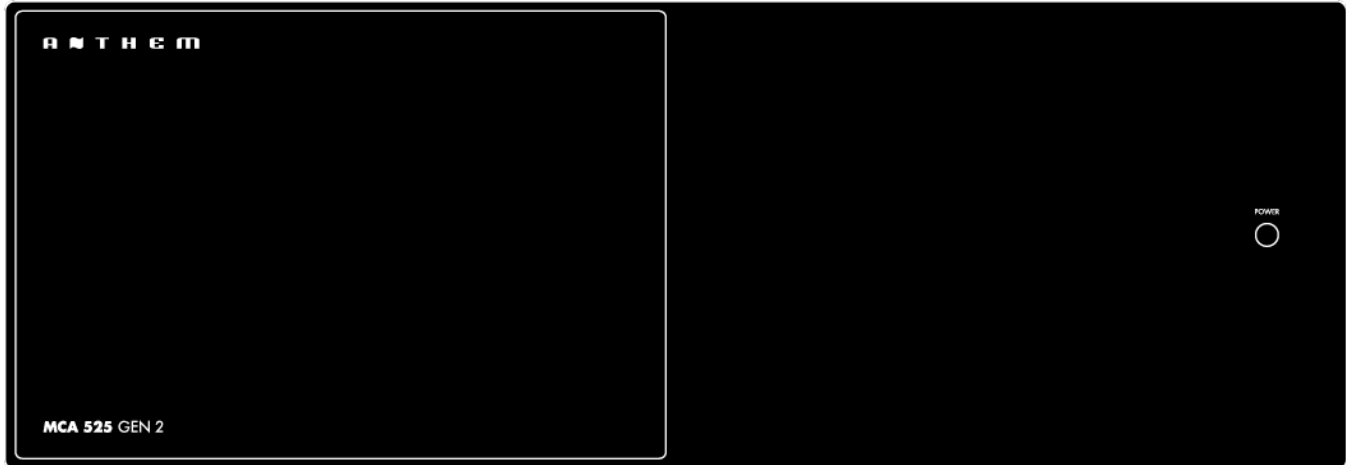


Auto-On:

This feature also eliminates the need to manually operate the power button. Auto-On turns the amplifier on when it senses an input signal, and switches off approximately 20 minutes after input signal stops.

2.4 FRONT PANEL

MCA 525 GEN 2 model shown. MCA 225 GEN 2, MCA 325 GEN 2 models are similar.



Power Button LED:

This is blue when the amplifier is operating normally. It also indicates abnormal operation according to the codes below. In most cases only the abnormal channel is shut down so the others can keep playing, and it resumes playing automatically once normal conditions are restored.

Rapid flashing (less than 1 second) - short-circuited channel. Inspect the speaker cables and connectors and make sure they do not touch other wires or amplifier chassis or any piece of metal.

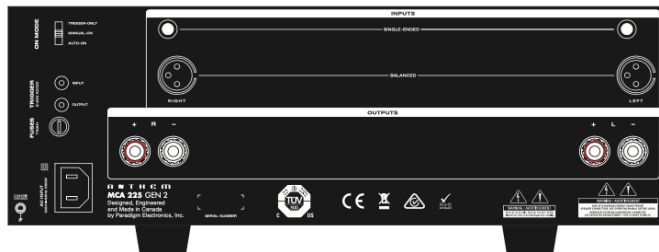
Slow flashing (more than 1 second) - thermal protection. Allow amplifier to cool and ensure that ventilation is adequate. In an over-temperature condition the temperature must drop before output resumes. This could take several minutes depending on ambient temperature.

Red LED - total shutdown. This can be caused by a ground fault or DC protection. Verify whether the cause is in the amplifier by disconnecting all inputs and the power cord. Reconnect the power cord only and turn on the amp. If the LED is still red, contact your dealer or Anthem Technical Support. For the MCA 525 GEN 2, the LED will also be red if either fuse on the rear panel is open.

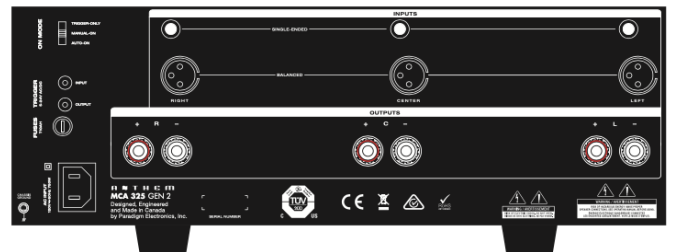
2.5 REAR PANEL

120V models shown. 240V models are similar.

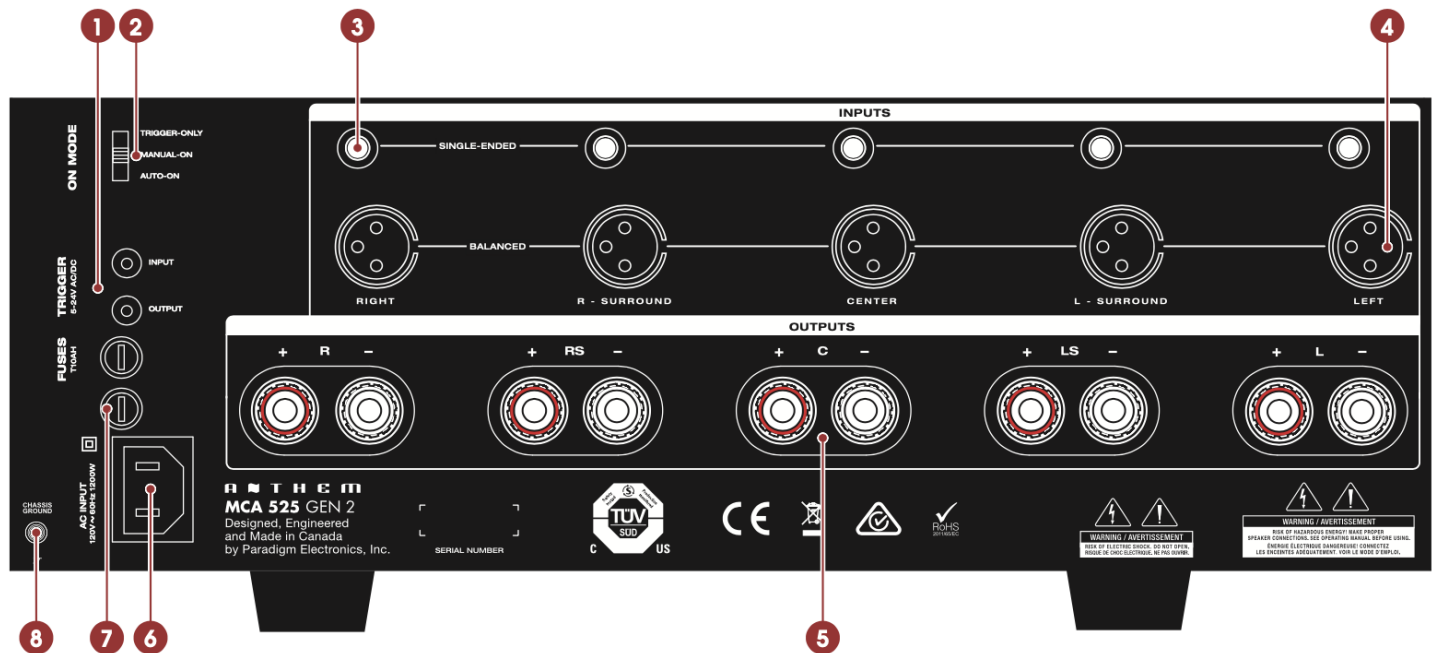
MCA 225 GEN 2



MCA 325 GEN 2



MCA 525 GEN 2



1. Trigger input and output
2. On-mode Switch (trigger / manual / auto)
3. RCA inputs
4. XLR inputs
5. Binding posts
6. Power cord inlet (IEC C18 type)
7. Fuses
8. Chassis ground screw

MEASURED PERFORMANCE

POWER OUTPUT

Continuous 20 Hz to 20 kHz, <1% THD (all models)

Load	Watts
8 ohms	225 W
4 ohms	400 W
2 ohms	600 W

THD at 100 W	
at 1 kHz	0.0010%
at 20 kHz	0.015%
IMD at 100 W	
ITU-R (19 kHz + 20 kHz)	0.0005%
SMPTE (60 Hz + 7 kHz)	0.002%
IMD at 100 W	120 dB
Frequency Response, 20 Hz to 20 kHz	
open circuit	± 0.1 dB
8 Ω	± 0.1 dB
4 Ω	± 0.1 dB
2 Ω	± 0.2 dB
Power Bandwidth, -3 dB at 200 W into 8 ohms	90 kHz
Slew Rate	30 V/μs
Damping Factor, 20 Hz to 1 kHz	300
Channel Separation, 100 Hz to 10 kHz	>65 dB
Input Impedance	
RCA	10 kΩ
XLR	15 kΩ
Input Sensitivity, 225 W into 8 Ω	1.5 Vrms
Voltage Gain	29 dB

POWER REQUIREMENT

	standby	idle	typical	high output
MCA 525 GEN 2	2.0 W	80 W	550 W	1200 W
MCA 325 GEN 2	1.4 W	47 W	350 W	750 W
MCA 225 GEN 2	1.0 W	35 W	240 W	500 W

This product operates from a single phase AC power source that supplies 108V-132V at a frequency of 60 Hz for the 120V version and 198V-264V at a frequency of 50/60 Hz for the 220V-240V version.

DIMENSIONS

Height	6-5/8" (16.9 cm)
Rackmounted Height	4U
Width	17-1/4" (43.8 cm)
Depth	18-1/8" (46 cm)
Weight (unpacked)	
MCA 525 GEN 2	61 lb (27.5 kg)
MCA 325 GEN 2	43 lb (19.5 kg)
MCA 225 GEN 2	40 lb (18.0 kg)

LIMITED WARRANTY

CANADA & USA

The warranty period on new Anthem products is:

5 years: Separate power amplifiers and integrated amplifiers

3 years: Audio/Video preamplifiers and receivers

Please register your product at www.anthemAV.com

The warranty period begins on the date of purchase from Anthem or an Authorized Anthem Dealer. This warranty is offered only to the original owner and is not transferable. Demonstration and display units are covered by the same warranty except that the period commences on the date of dealer invoice, not the purchaser's invoice, and cosmetic flaws are excluded.

If Anthem determines that the product has a defect in materials or manufacturing during the warranty period Anthem will at its option repair, replace or provide the necessary replacement parts without charging for parts or labor. Repaired or replaced equipment or parts supplied under this warranty are covered by the unexpired portion of the warranty.

Warranty is void if the serial number has been removed, altered or defaced, if the product has been operated, installed or handled other than in accordance with the intended application, tampered with, modified, or damaged by accident, while in transport or by failure of electric power, or has been repaired by a non-authorized party. Anthem shall have no obligation to correct any defect that is not reproducible by Anthem. If inspection by Anthem discloses that the repair required is not covered by this warranty, regular repair charges shall apply.

If a problem is discovered in your Anthem product, please contact the Authorized Anthem Dealer from whom you purchased the product. Your dealer will help to determine the cause of the problem and arrange for the appropriate action. Alternatively, follow the procedure below for factory service. A Return Authorization (RA) number must be obtained from Anthem Technical Support before a product can be shipped to Anthem for any reason. Product shipped to Anthem without its RA Number clearly visible on the outside of the shipping carton will be refused and returned to the sender, freight collect. Product shipped to Anthem must have shipping and insurance prepaid by the sender, be packaged in the original carton and packing material and accompanied by a written description of the defect. Service will not be given under warranty without an accompanying copy of the sales invoice. Product repaired under warranty will be returned with shipping and insurance prepaid by Anthem (within Canada and continental USA only).

DISCLAIMER OF LIABILITY

Under no circumstances shall Anthem, its agents, representatives or employees assume liability or responsibility for injury or damages sustained in the use or operation of Anthem products or for damages to connected products. Some jurisdictions do not allow limitations of incidental or consequential damages so this exclusion may not apply to you.

Anthem reserves the right to make design changes without obligation to revise prior versions. All specifications are subject to change without notice. This warranty shall be the sole and exclusive remedy to you. No other warranty or condition, statutory or otherwise, expressed or implied, shall be imposed upon Anthem nor shall any representation made by any person, including a representative or agent of Anthem, be effective to extend the warranty coverage provided herein.

On the expiration of the warranty all liability of Anthem in connection with the product shall terminate.

INTERNATIONAL

Terms and conditions are set and maintained by the Authorized Anthem Distributor, not Anthem.

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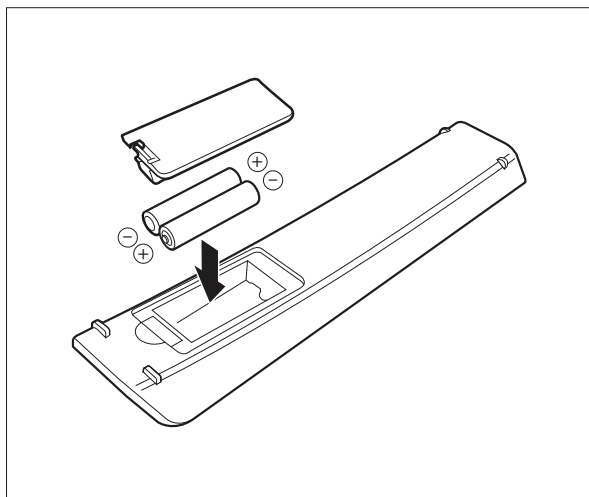
+1 905-564-1994
8:30 am - 5:00 pm M-F (ET)

www.anthemAV.com

Using the Remote Control

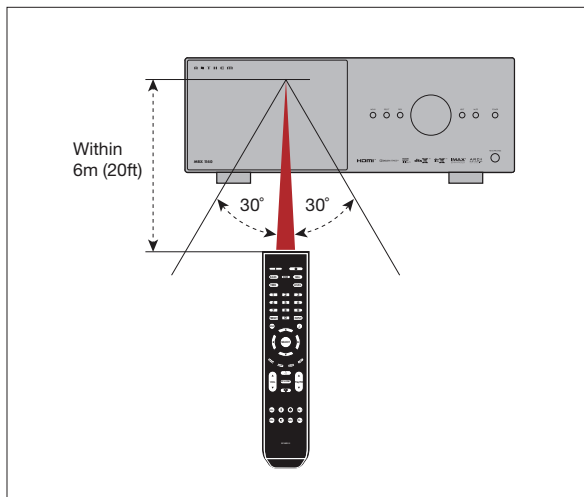
Remote Control Battery Installation

Install batteries in the MRX/AVM remote control in the directions shown in the illustration below.



Remote Control Range of Operation

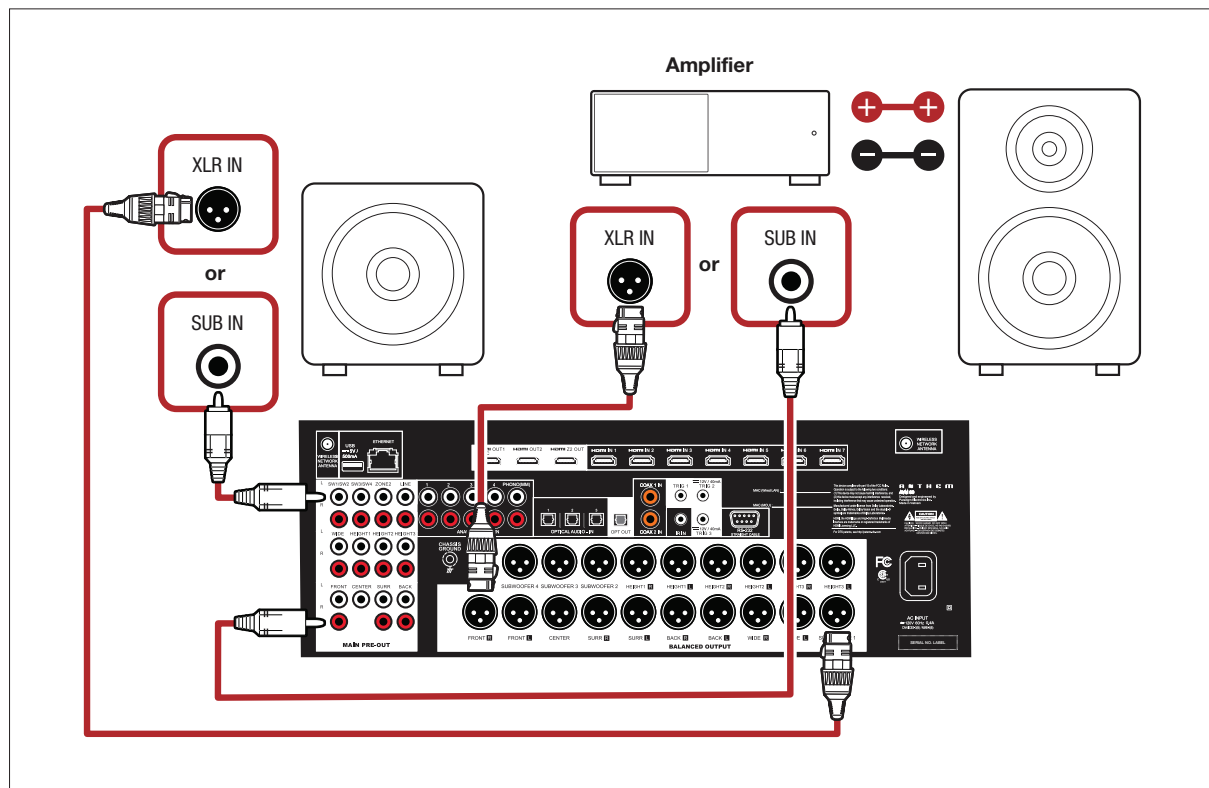
The MRX/AVM remote control operates best when used within the range and distance shown in the illustration below.



Basic Connections

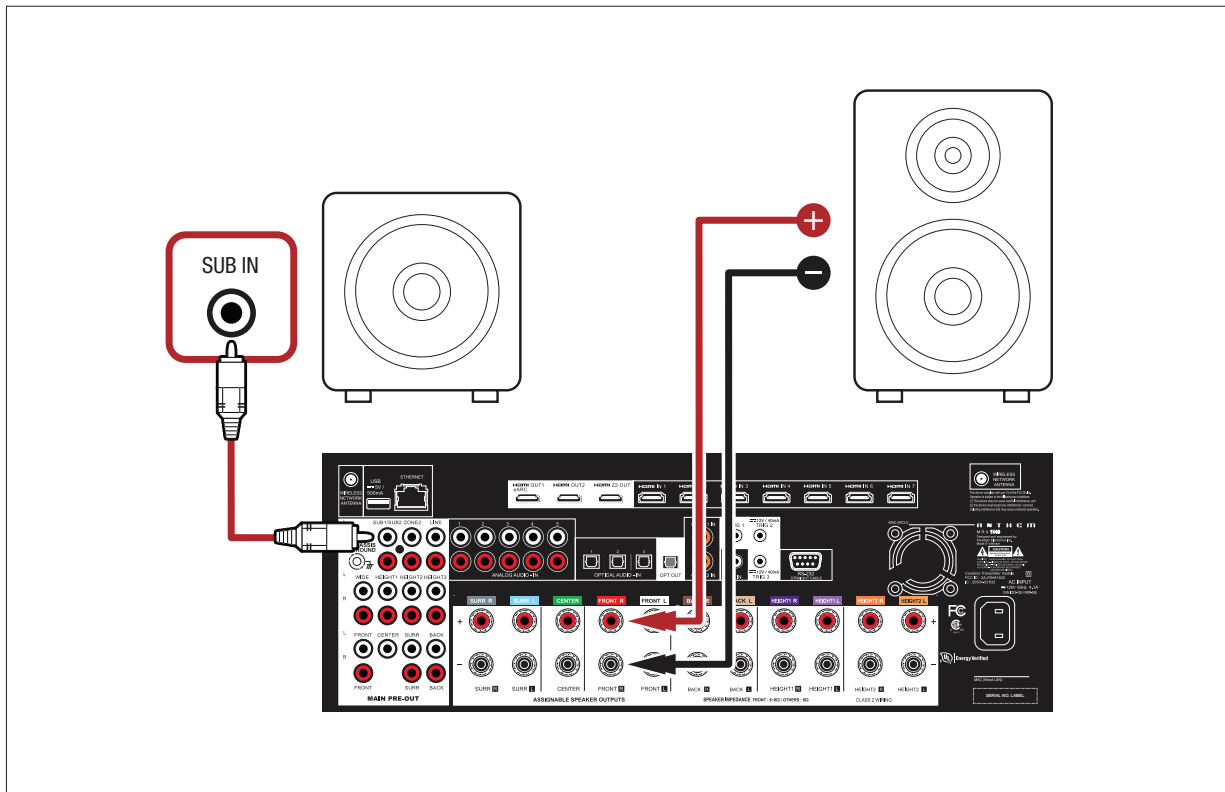
How to connect speakers and sources to your MRX/AVM.

Speakers/Subwoofer (AVM 90/70 ONLY)

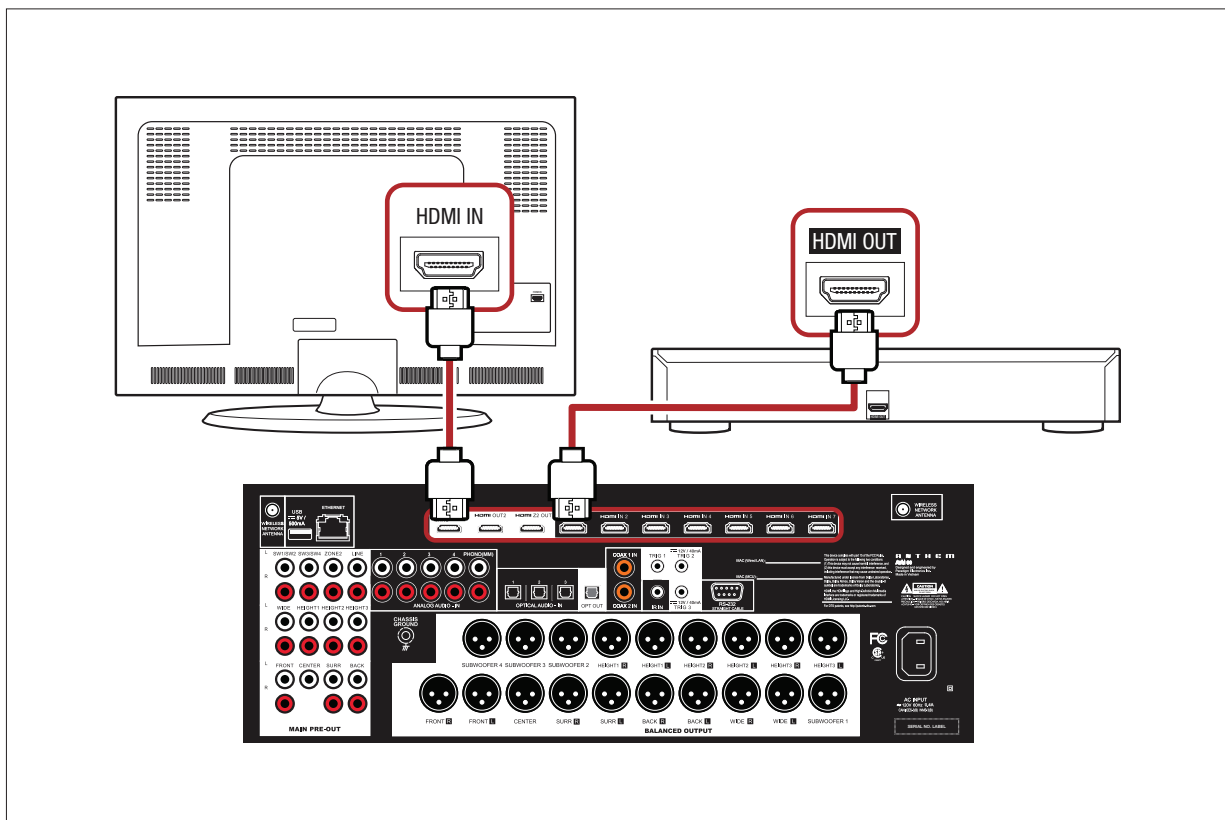


Basic Connections (Continued)

Speakers/Subwoofer (MRX 1140/740/540 ONLY)



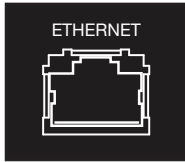
Sources (All MRX/AVM Models) **Note:** MRX 540 does not include 2.2 HDMI



Network Setup

How to connect your MRX/AVM to your network. A network connection is required for accessing the Web UI, streaming content, and for running Anthem Room Correction.

Ethernet Connection: The simplest way to connect your MRX/AVM to your network is by connecting it via Ethernet cable. This option isn't always available, but it will provide the quickest setup and most secure network connection. To connect via Ethernet, simply take an ethernet cable that is connected to your network and plug it into the MRX/AVM's Ethernet port on the rear of the unit.



Wi-Fi Connection (iOS/Android): Download and open the Google Home application. You should be prompted that there is a device available for setup. If not, tap "x" followed by "Setup a Device". Select the MRX/AVM and follow the instructions on screen. To listen to cast audio from any supported application on your MRX/AVM, ensure your device is connected to the same network as the MRX/AVM. Tap the Chromecast built-in icon from within the application and select the MRX/AVM as the playback device.

Note: If you connect to your network before connecting speakers, you will not hear the connection chime.

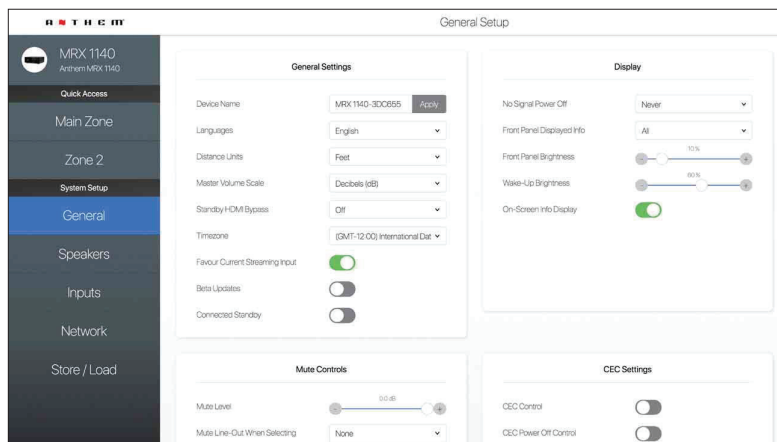
Unit Setup

An introduction to setting up your MRX/AVM. Full details on the setup can be found in the manual on our website: manuals.anthemav.com/mrx-avm/en

Anthem Web User Interface

The Anthem Web User Interface is a new addition to the MRX/AVM line. With your MRX/AVM on the network you can adjust menu settings with a device connected to the same network as the MRX/AVM; a phone, tablet or computer will work as it resizes to the screen you are using.

To access the Anthem Web User Interface, you will first need to identify your MRX/AVM's IP address. This can be found by entering the MRX/AVM Front Panel Menu: **Setup Menu > Network/Control > IP Configuration**. Once you have your IP address you will need to use a browser such as Safari or Google Chrome. After opening your browser, enter the IP address into the URL bar.



Front Panel Menu

To access and navigate the Front Panel Menu, you will either need to use the Remote or the Front Panel Buttons.

Remote: Press SETUP to enter the menu. Once in the menu, you can use the UP/DOWN/LEFT/RIGHT and ENTER buttons to navigate and make changes.

Front Panel Buttons: Press MENU to enter the menu. Once in the menu, you can use PREV/NEXT/VOLUME KNOB and SELECT to navigate and make changes.

Inputs

Virtual Inputs: Anthem products use “Virtual Inputs.” What this means is that no physical input is tied to any input that is made or created, you can create and specify combinations you want. For example, you can make an input using HDMI 1 for video and HDMI for audio then make a second input using HDMI 1 for video and RCA for audio or another example would be to make 2 separate inputs using the exact same audio and video inputs but different speaker profiles. You can make up to 30 different Virtual Inputs allowing for a lot of customizability. For more details on Virtual Inputs, see our full manual at:

manuals.anthemav.com/mrx-avm/en

Premade Inputs: While the virtual inputs allow for customization, your MRX/AVM comes with premade inputs so you can turn it on and use it without any menu setup. These are HDMI 1, HDMI 2, HDMI 3, HDMI 4, HDMI 5, HDMI 6, HDMI 7, eARC, Streaming, Bluetooth, Optical 1, Coax 1, Analog 1, & Phono (AVM Models Only). These inputs can be deleted or modified at will but let MRX/AVM be used without any knowledge of virtual inputs needed.

Anthem Room Correction® (ARC)

Anthem Room Correction (ARC) is a special technology that ensures your system will sound its best in any environment by adjusting the frequency response, level and phase of each individual speaker and subwoofer. It preserves the unique quality of your space and provides a natural and balanced sound.

For the software download and information on how to run ARC, visit our website at: AnthemARC.com

Anthem and any related party assume no liability for the user's failure to comply with any requirements.

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8:30 am - 5:00 pm M-F (ET)

www.anthemAV.com

ANTHEM®

MCA SERIES

MULTI-CHANNEL AMPLIFIERS

525 | 325 | 225

GENERATION 2

**An All-New
Look** Matches
AVM 90/70
A/V Processors
& MRX A/V
Receivers



To complement the NEW AVM 90 and AVM 70 A/V Processors, Anthem introduces the new MCA 525, 325 and 225 Generation 2 power amplifiers. Available in 5, 3 and 2-channel configurations, these new MCA amplifiers feature robust

and efficient power and heavy-duty reliability. MCA Generation 2 power amplifiers provide especially low THD (total harmonic distortion) for a clean, pure sound and lower noise for a supremely quiet background.

MCA SERIES: 225W in 2, 3, & 5-Channel Models

FEATURES & FUNCTIONS

- High current output for lower distortion
- Cosmetic match for AVM 90 and AVM 70 A/V Processors
- Advanced Load Monitoring system ensures long-term performance
- 8 bipolar output devices per channel for less stress on each device
- Less than 2 watts standby power consumption
- Crafted in Canada



MCA teams up perfectly with an AVM 90 or AVM 70.

A NEW MCA SERIES

What does it take to improve on perfection? Over 20 years of concentration. The distillation of endless hours of fundamental research. The willingness to rebuild from the ground up. And the focus on a single goal: Leadership through innovation and technology.

Introducing the new generation of Anthem MCA Amplifiers, designed, engineered and manufactured in Canada!

It's The Little Things That Count

MCA Gen 2 reduces the use of internal cabling for a much smoother circuit path for pure, unobstructed audio performance. The use of low-flux toroidal transformers and input transistors provide a greater sense of transparency, even with dynamically complex material.

We've also improved on other performance benchmarks including power bandwidth and slew rate. With a signal-to-noise ratio of 120 dB, background noise is practically nonexistent, leaving you with just pure natural sound reproduction.

Higher Power into More Demanding Loads

Experience the immense dynamics of up to 600 clean Watts delivered into demanding 2-Ohm loads. Both power supply impedance and internal cabling inductance have been minimized to deliver a clear path for maximum power – even in the most demanding conditions.

While other 5-channel amps often use a single power supply for all channels, the new MCA 525 features two oversized power supplies. The result is full bursts of power – instantly – without affecting channel separation.

Advanced Load Monitoring™ Technology

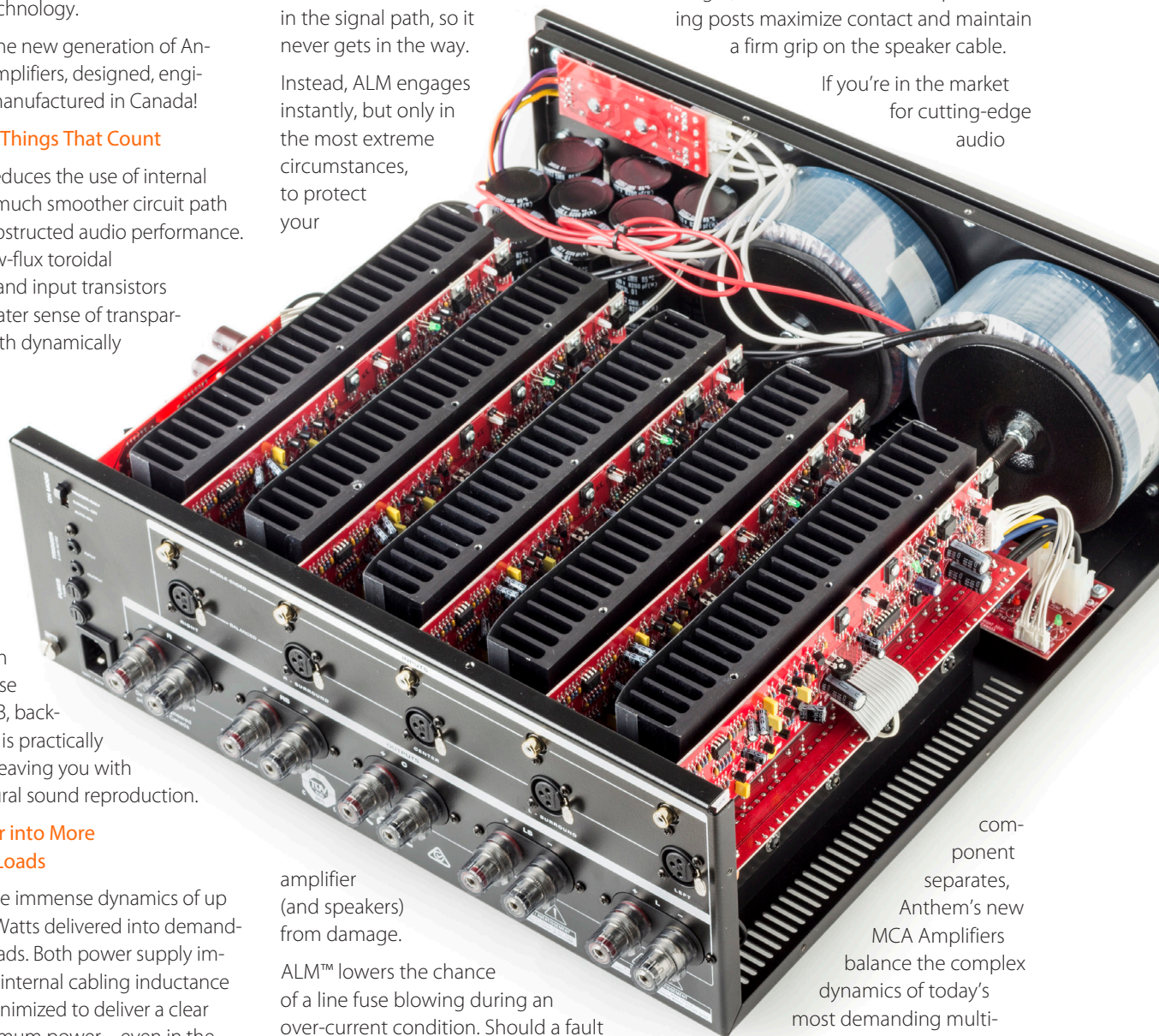
Exclusive ALM™ technology monitors internal temperature, current and voltage to ensure safe and uninterrupted long-term operation, all the while eliminating the need for internal fuses. ALM™ is not in the signal path, so it never gets in the way.

Instead, ALM engages instantly, but only in the most extreme circumstances, to protect your

these new MCA Amplifiers only use between 1-2W in “standby” mode. As with all Anthem amplifiers, they can be switched on manually, via trigger, or by sensing an input signal.

Larger, more conductive audiophile binding posts maximize contact and maintain a firm grip on the speaker cable.

If you're in the market for cutting-edge audio



amplifier (and speakers) from damage.

ALM™ lowers the chance of a line fuse blowing during an over-current condition. Should a fault condition arise, unaffected channels continue to play and all-channel operation resumes automatically once conditions are back to normal. The LED on the front panel confirms status at all times.

Green “Standby” Power Consumption

In addition to the reduced inrush current,

component separates, Anthem's new MCA Amplifiers balance the complex dynamics of today's most demanding multi-channel media with the rare finesse required to satisfy the audiophile in you. MCA Amps provide an abundance of conservatively-rated power into demanding low-impedance loads, incredible reliability, and a new design aesthetic that matches our sleek AVM 90 and AVM 70 Pre-amplifier/Processor.

FEATURES

Measured Performance

The Generation 2 MCA 525, MCA 325 and MCA 225, designed and built in Canada, are like no other amplifiers in the world: *custom low-noise high-power toroidal transformers; high-current bipolar output transistors; high-quality filter capacitors; advanced power supply regulators; oversized aluminum heatsinks; custom-designed dual binding posts; and patented auto-on/off circuitry.* Superior craftsmanship that is reflected in clean, clear, audiophile-quality sound from top to bottom of the frequency spectrum.



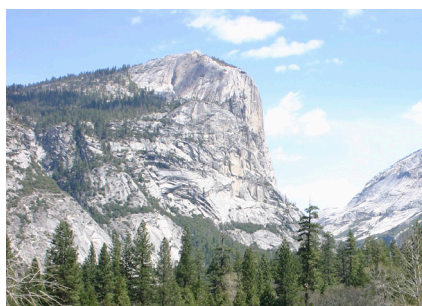
Audiophile Binding Posts

Our own custom-designed, oversized robust binding posts ensure full power delivery at all times. They're easy to use and facilitate large speaker cable connectors.



Stable As A Rock

Our amplifiers are incredibly stable into difficult, low-impedance speaker loads, making these superb-sounding reliable performers in even the toughest circumstances.



Detachable Power Cord

By including IEC detachable AC female sockets and high-power, high-quality 14-AWG AC cords, MCA amplifiers further demonstrate their high-end pedigree.



Massive Toroidal Power Supplies

MCA amplifiers deliver incredible dynamics thanks to massive "audiophile approved" conservatively rated power supplies designed with high rail voltages. Low flux toroidal power transformers ensure ultra quiet performance by minimizing stray magnetic field radiation. This provides the pure, clean, low-noise power that is needed to reproduce the full dynamics of home theater and the most complex and dynamic music recordings.

TECHNICAL SPECS

Power Output

Continuous 20 Hz to 20 kHz, <1% THD (*all models*)

load	watts
8 ohms	225 W
4 ohms	400 W
2 ohms	600 W

THD at 100 W

at 1 kHz.....0.0010%
at 20 kHz.....0.015%

IMD at 100 W

ITU-R (19 kHz + 20 kHz).....0.0005%
SMPTE (60 Hz + 7 kHz).....0.002%

SNR, IEC-A, ref. 225 W.....120 dB

Frequency Response, 20 Hz to 20 kHz

open circuit.....± 0.1 dB
8 Ω.....± 0.1 dB
4 Ω.....± 0.1 dB
2 Ω.....± 0.2 dB

Power Bandwidth, -3 dB at 200 W into 8 ohms.....90 kHz

Slew Rate.....30 V/μs

Damping Factor, 20 Hz to 1 kHz.....300

Channel Separation, 100 Hz to 10 kHz.....>65 dB

Input Impedance

RCA / XLR.....10 kΩ / 15 kΩ

Input Sensitivity, 225 W into 8 Ω.....1.5 Vrms

Voltage Gain.....29 dB

Power Requirement

consumption	standby	idle	typical	high output
MCA 525 (Gen. 2)	2.0 W	80 W	550 W	1200 W
MCA 325 (Gen. 2)	1.4 W	47 W	350 W	750 W
MCA 225 (Gen. 2)	1.0 W	35 W	240 W	500 W

This product operates from a single phase AC power source that supplies 108V – 132V at a frequency of 60 Hz for the 120V version and 198V – 264V at a frequency of 50/60 Hz for the 220V – 240V version.

Dimensions (*all models*)

Height.....6-5/8" (16.9 cm)
Rackmounted Height.....4U
Width.....17-1/4" (43.8 cm)
Depth.....18-1/8" (46 cm)

Weight (*unpacked*)

MCA 525 (Gen. 2).....61 lb (27.5 kg)
MCA 325 (Gen. 2).....43 lb (19.5 kg)
MCA 225 (Gen. 2).....40 lb (18 kg)

Create Your
Own Dolby Atmos
15-Channel System



Three MCA 525s (Gen. 2) paired
with an AVM 90 A/V Processor

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