

# 1. INTRODUCTION

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## **Thank you for purchasing the Anthem AVM 20 Preamplifier • Processor • Tuner.**

Anthem Electronics has been manufacturing high-quality, high-end audio equipment for over a decade. In that time, Anthem has built an enviable reputation for products that can recreate the passion a music lover experiences when attending a live musical performance, or the thrilling sound a movie buff experiences in the very best movie theaters. Anthem equipment allows audiophiles to almost “be there” each and every time they sit and enjoy music or home theater in the comfort of their home. Anthem provides all this with the highest level of craftsmanship, sophisticated circuit designs, superior quality parts and materials, modern intuitive ergonomics, and stylish industrial design.

Although Anthem products sound great “right out of the carton”, they will sound even better after they are thermally stabilized. We therefore recommend that you operate this product for a period of time before doing any critical listening.

The AVM 20 is a state-of-the-art four path A/V Preamplifier / Surround Sound Processor, with built-in FM • AM Tuner. It is designed to provide high-end sound and video for both music, home theater, and multi-room applications.

## **1.1 ABOUT THIS MANUAL**

Section 1 contains important handling and safety information. Section 2 contains a Quick Start Guide which shows you how to connect most popular components to the AVM 20 and get up and running in a matter of minutes. Section 3 describes the Front Panel, Rear Panel, and Remote Control layouts of the AVM 20, while Section 4 describes connections in detail. To learn how to operate the AVM 20 from the Front Panel controls read Section 5. Remote Control operation has a few differences – they are explained in Section 6. To fully explore all the possibilities of the AVM 20, we strongly recommend that you go through the complete Setup procedure as explained in Section 7. Software updating is explained in Section 8, followed by the Warranty, Universal Remote Control codes, and complete Specifications.

## **1.2 RECEIVING AND UNPACKING THE AVM 20**

The AVM 20 is shipped in a reinforced shipping box. Please keep this box for any future shipment. Check that you have received everything in the Packing List below. Report any discrepancies to your dealer as soon as possible. Fill in and mail the Warranty Registration Card within thirty days of purchase.

### **1.2.1 PACKING LIST**

- AVM 20
- Powered IR Terminal Block (on rear panel)
- Power Cord
- AM Loop Antenna
- FM Antenna
- 75-ohm to 300-ohm FM Antenna Adapter
- Remote Control
- 2 ‘AA’ Batteries
- Operating Manual
- Warranty Registration Card

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## 1.3 IMPORTANT SAFETY INFORMATION

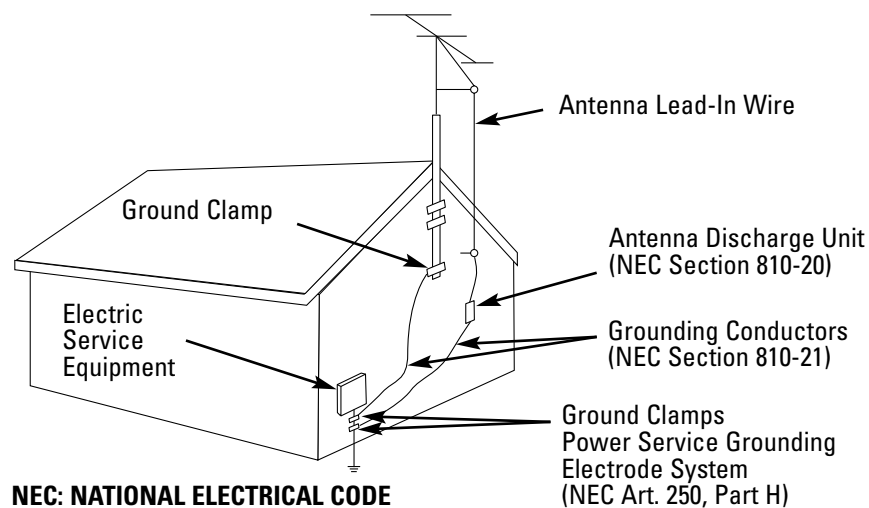
- The Front Panel power switches are secondary only; they do not disconnect the AVM 20 from the AC power line. Line voltage is switched off through the rear panel power switch.
- The following safety instructions must be observed whenever the AVM 20 is operated, moved, or serviced. Failing to comply with any of these instructions or with any precaution or warning contained in this Operating Manual is in direct violation of the standards of design, manufacture, and intended use of the equipment.
- Neither Anthem, Sonic Frontiers International, our agents, or any related party assume any liability whatsoever for the user's failure to comply with any or all of these requirements.

### 1.3.1 BEFORE OPERATING YOUR AVM 20

- Do not connect power to the AVM 20 if there are signs of damage to any part of its exterior surface.
- Situate the AVM 20 away from heat sources such as radiators, heat registers, stoves, or other any appliances (including power amplifiers) that produce heat.
- Allow four inches (or more) of unobstructed air space above the ventilation slots in the top cover of the AVM 20. Do not obstruct bottom vents by removing the rubber feet or operating the AVM 20 directly on a carpet, sofa, or similar surface.
- Do not place the AVM 20 in a bookcase or component rack without adequate ventilation.
- Install the AVM 20 in a stable location. Do not mount to a wall or from a ceiling.
- Do not use the AVM 20 near water or a wet/damp environment. Do not expose to rain or moisture.

### 1.3.2 OUTDOOR ANTENNA GROUNDING

- If an outside antenna or cable system is connected to the AVM 20, the antenna or cable system must be grounded to provide some protection against voltage surges and built-up static charges. The following diagram contains requirements according to the National Electrical Code:



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## 1.3.3 SUPPLY POWER REQUIREMENTS

The AVM 20 can operate from any single phase AC power source that supplies between 105V and 130V at a frequency of 60 Hz. The power transformer primary cannot be changed from 120V to 240V operation.

The AVM 20 uses a polarized power cord with one blade wider than the other so that it only fits into the outlet one way. If the plug cannot be fully inserted with no blade exposed, reverse the plug and try again. If it still does not fit, you have an obsolete outlet – contact an electrician to replace it.

To prevent risk of shock or fire, do not overload wall outlets, extension cords, or convenience receptacles.

The use of an adequate and approved surge protector is highly recommended.

### **DO NOT USE A POWER LINE CONDITIONER:**

- **Certain design characteristics of many Power Line Conditioners make them incompatible with the AVM 20 and may cause the AVM 20's AC line fuses to blow.**
- **One is not required because the AVM 20's power supply has power line filtering and voltage regulation built in.**

## 1.3.4 IN-USE NOTICES

- Use only the power supply cord with double insulation as supplied.
- Disconnect the power cord from the AVM 20 before connecting or disconnecting any components.
- Fuses are not a user serviceable item (see section 1.3.6 and specification section).
- Do not remove the top cover.
- Do not alter or modify the AVM 20 in any way.

## 1.3.5 CLEANING

Unplug the AVM 20 from the wall outlet before cleaning. A regular dusting with a soft, non-abrasive cloth will generally keep the finish of the faceplate and chassis looking new. Do not allow any liquid to come in contact with the AVM 20; it may run onto the internal electronic circuitry and cause damage that is not covered under warranty.

## 1.3.6 SERVICING

Do not attempt to open or perform any repairs to the AVM 20. There are no adjustments inside the AVM 20 that can be made by the user, nor are there any user serviceable parts inside. Refer servicing to qualified service personnel only.

## 1.3.7 NON-USE PERIODS

To prevent damage from power line surges and lightning strikes, unplug the AVM 20 from the power outlet, outside antenna, and cable system when left unused for an extended period of time.

## 1.4 PACKING MATERIALS

Please retain the shipping box and all packing material. They are custom designed to prevent shipping damage from occurring. Do not ship or transport the AVM 20 in anything other than the original box and packing material.