

AVatrix™

High Definition Cat 5 Matrix

Model AVM-562



Audio  Authority®

The Pioneering Cat 5 Video & Audio Distribution System



HD Matrix Signal Distribution

The AVatrix **Model AVM-562** is an HD matrix that delivers component video, digital audio and stereo audio signals for distributed video and home theater systems. Any of six sources may be routed to multiple remote zones or to the main output at any time. Each of the **AVM-562's** outputs is terminated at a Cat 5 receiver which provides a connection point for component video, digital audio, and stereo analog audio. Audio Authority's innovative balanced line architecture, along with our Active Gain Equalization (AGE) technology, allows the signal to be transmitted up to 1,000 feet over Cat 5e/6 cables while preserving high definition signal clarity and vibrancy.

AVM-562 FEATURES:

- Six inputs and six Cat 5e/6 zone outputs in one unit
- Any source may be routed to any zone output
- Expandable to up to 36 remote zones
- Loss-free signal distribution up to 1,000 ft over Cat 5e/6
- High bandwidth component video up to 1080p
- Cat 5 receivers provide YPbPr plus digital & analog audio
- Cat 5 bus delivers power for zone receivers
- Pathway for IR control signals through Cat 5 bus
- IR routing system for discrete source control built in
- IR remote control and rack mount ears included

Cat 5 Zone Receivers

Audio and video signals are carried on two Cat 5 cables to each zone receiver. The receivers are powered from the head end over Cat 5 – no power connection required at the zone. A return pathway for IR signals is included in the Cat 5 cable run. This pathway allows the AVatrix to be remotely controlled via IR, and it also delivers discrete IR control signals to the sources.



Custom Options

The **Model AVM-562** is easy to install right out of the box with virtually no setup or assembly required for basic installations. The system is loaded with all the features and options needed for complex installations as well. It ships with its own IR remote control, and it works with other programmable remote control systems. Download the IR and RS-232 control codes from the remote control company, or from www.audioauthority.com. Each source input can be given a custom name that is displayed on the panel display. An SD port allows easy firmware upgrades and provides a way for installers to quickly perform setup tasks using a PC for configuration.

The Perfect HDTV Distribution Solution

The **AVM-562** is your ticket to quicker, simpler, headache-free installations. Two Cat 5 cables are all you need—they do the work of six coaxial cable runs plus provide an IR pathway for source control. Balanced line technology allows for superior noise rejection and excellent picture quality. The **AVM-562** is perfectly suited for home use, restaurant television distribution, digital signage, even retail demonstrations of HDTV.



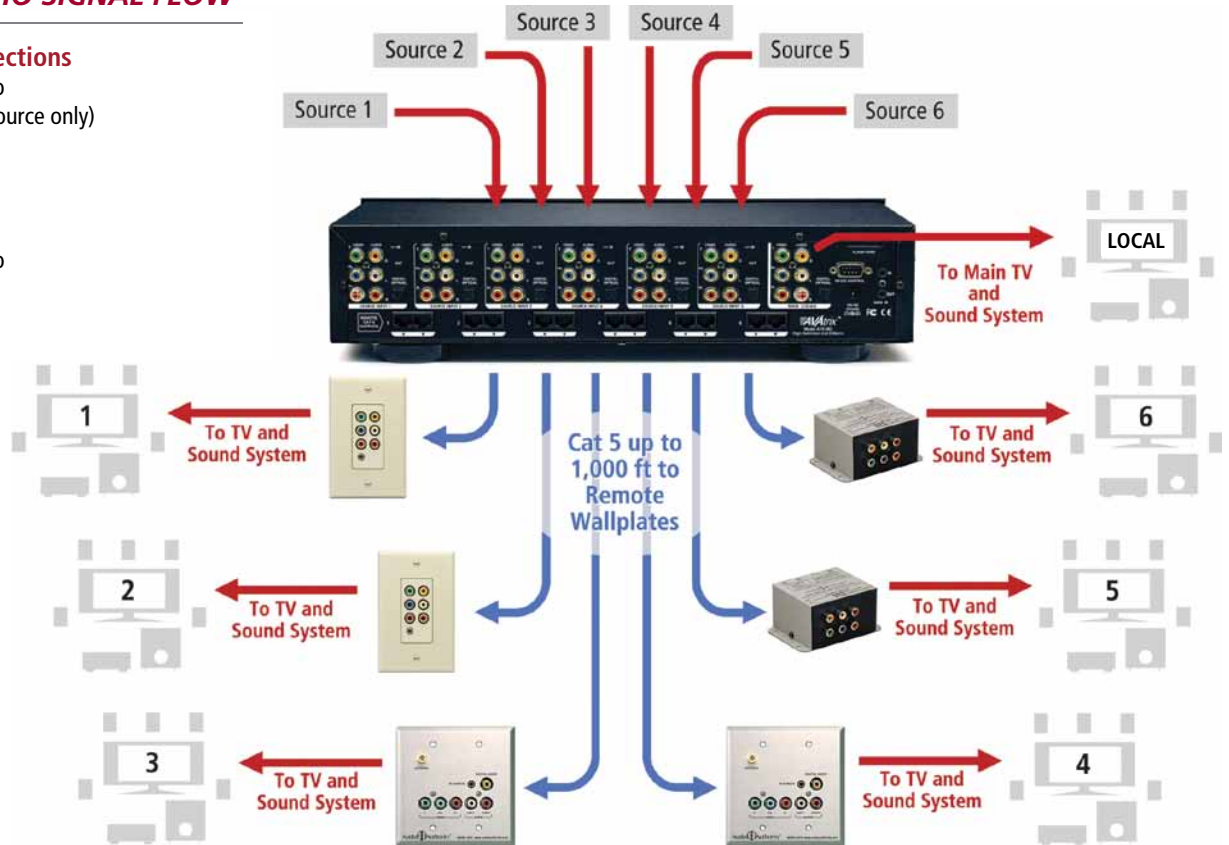
VIDEO AND AUDIO SIGNAL FLOW

Source and TV Connections

- YPbPr component video
- Optical digital audio (source only)
- Coaxial digital audio
- L/R analog audio

Cat 5 Bus

- YPbPr component video
- Coaxial digital audio
- L/R analog audio



SYSTEM DETAILS:

AVM-562 Contents	(1) HD Cat 5 Matrix with IR routing (1) 1105BK IR remote control (1) Internal bus cable (with two open ports) (1) 18V DC power adapter (2) Rack ears
Cat 5 Receiver Options (Purchased separately)	9878 dual-gang stainless steel wallplate 9879 single-gang Decora® style wallplate 9880 enclosed breakout box receiver
Inputs / Outputs	YPbPr, digital audio and stereo analog audio
Control Methods	Front panel controls Front panel IR IR input on rear panel RS-232 connection on rear panel IR receivers installed at remote Cat 5 receivers

AVM-562 SPECIFICATIONS:

Video Signal Type:	YPbPr component video	Analog Audio:	Left and right stereo
Video Formats:	480i/p, 540i/p, 720p, 1080i/p	Digital Audio:	Multi-channel digital
Video Input/Output Impedance:	75 ohms	Digital Input/Output	Optical & coaxial in/out
Video Input Ground Isolation:	No	Audio Input Impedance	75 ohms/ 50K ohms
Video Gain:	1	Audio Frequency Response	10-50KHz
Video Gain Accuracy:	2%	Audio S/N Ratio	72dB
Video 3dB Bandwidth:	100MHz	Audio THD & Noise	0.03%
Video Input Coupling	AC	Size (H x W x D):	3.5" x 16.5" x 9.6"
Video S/N Ratio:	61dB	Warranty:	One year, parts and labor
Max Video Gain/Equalization	1	Agency Approvals	FCC, CE

Expand and Extend the AVatrix

The **AVatrix** expanders connect via an internal system bus cable and four jack screws. The standard **AVM-562** bus cable has two open ports to accommodate **1173BK** and/or **1176BK** expanders. Model **AVM-562E** bus cable has five open ports.



Add Remote Zones

The **1176BK** HD Cat 5 Matrix Router expands an **AVatrix** system to allow six additional matrix outputs. Add up to five **1176BK** expanders to the **AVM-562** to increase the total outputs to 36 remote locations. Connects via internal system bus cable and four jack screws.



Interface with an Audio Distribution System

The **1173BK** Multi-Zone Audio Router with Volume Control allows the easy connection of distributed audio amplifier components. It provides pre-amp style control of volume for analog audio sources. Compatible with outboard zone amplifiers and distributed audio systems. Connects via internal system bus cable and four jack screws.

Send IR Signals to or from the Head End



The **1109** IR Injector allows IR control signals to be sent from a device near the **AVatrix** out to IR emitters connected to zone receiver jacks.

The **1111** Control Bridge allows control signals to be sent from a head-end device through the **AVatrix** to sources. The control signals are injected into the Cat 5 as if they originate in the remote zones, simplifying macros by utilizing the **AVatrix's** built-in IR routing capabilities.

AVatrix™



*Any Source,
Any Display,
Any Time.*

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