High Definition Cat 5 Matrix

Model AVX-562

Audio Authority®

The Revolutionary Cat 5 Video & Audio Distribution System

HD Matrix Signal Distribution

The AVAtrix **Model AVX-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 wallplates or to the main output at any time. Each of the **AVX-562's** outputs is terminated at a wallplate/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 while preserving high definition signal clarity and vibrancy.

Cat 5 Wallplate Receivers

Audio and video signals are carried on two Cat 5 cables to each wallplate/receiver. The wallplates 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.

AVX-562 Rear Detail

DISCRETE IR OUTPUTS
SIX SOURCE INPUTS
SIX CAT 5 OUTPUTS
PC FLASH PORT
IR CONTROL INPUT
RS-232 CONTROL
MAIN IR OUTPUT

Custom Options

The **Model AVX-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 the AVAtrix IR and RS-232 control codes are available for download from Audio Authority as well as several remote control companies. Each source input can be given a custom name that is displayed on the fluorescent display. A flash memory slot 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 **AVX-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 **AVX-562** is perfectly suited for home use, restaurant television distribution, digital signage, even retail demonstrations of HDTV.
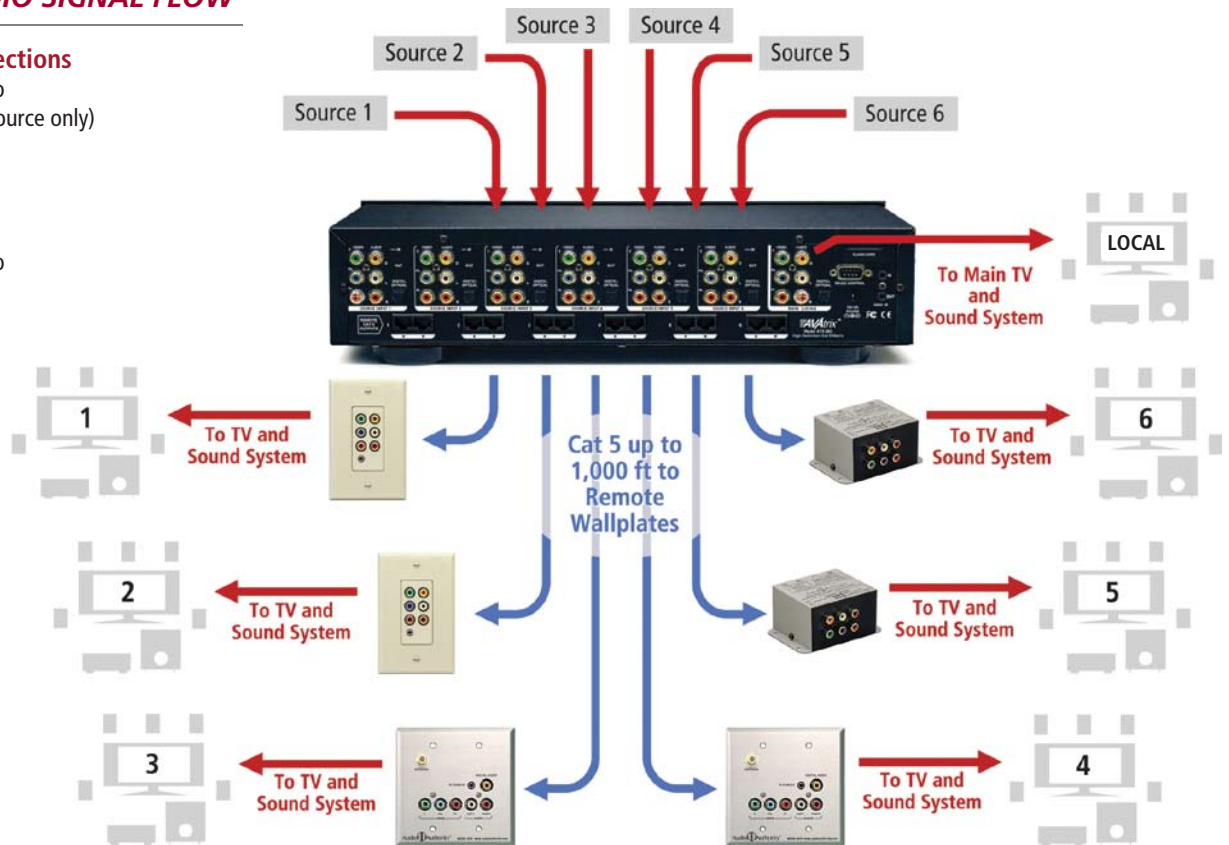
SYSTEM DETAILS:

AVX-562 Contents	(1) HD Cat 5 Matrix with IR routing
	(1) 1105 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

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

AVX-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

Add Remote Zones

The 1176 HD Cat 5 Matrix Router expands an AVAtrix system to allow six additional matrix outputs. Add up to five 1176s to the **AVX-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 1172 Audio Interface is a breakout adapter that allows the easy connection of whole-house audio amplifier components. It provides digital and analog audio to independent audio systems with integrated switching or systems with dedicated zone amplifiers. Connects via internal system bus cable and four jack screws.

Bus Cable for Adding More than Two Expanders

The AVAtrix has an internal ribbon bus cable that allows for two expanders (802-567). If you plan to add three to five expanders, the seven-port 802-568 bus cable is required.

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 wallplate/receiver jacks. Connections for up to six wallplate/receivers with each pathway operating independently to enable a mix of incoming and outgoing IR signals. Requires no power source.

Any Source,
Any Display,
Any Time.