

Installation and Operation

Audio Authority®



Model 1172

Model 1172BK Multi-Zone Audio Router for the

AVAtrix™

HD Cat 5 Matrix Routing System

Audio  Authority®



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Warnings

To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture.



The exclamation point symbol alerts users to important operating and maintenance instructions in this booklet.

- Read this manual before installing or using this product.
- This product must be installed by qualified personnel.
- Do not open the cover—there are no user-serviceable parts inside.
- Do not expose this unit to excessive heat.
- Install only in dry, indoor locations.
- Do not obstruct the ventilation slots.
- Clean the unit only with a dry or slightly dampened soft cloth.

Getting Started

- Register your purchase at www.audioauthority.com/register to activate your warranty and for future upgrade notification. Write your registration password on the back cover of these instructions.
- Unpack the product and its accessories
- Read these instructions
- Connect associated equipment (see detailed instructions in the AVAtrix Manual)
- Connect the product to a suitable power outlet using only the power supply furnished

General Information

The Model 1172BK Multi-Zone Audio Router is a companion product to the AVAtrix™ HD Cat 5 Routing System. It provides six analog or digital audio source outputs to a whole-house audio system to enable coordination of a room's audio program with the video program being received on a Cat 5 wallplate/receiver (9878, 9879, or 9880). The Model 1172BK's audio outputs, taken from audio/video sources resident on the AVAtrix, thus complement other audio-only sources directly connected to the audio distribution system.

Source Mode and Tracking Mode

- **Source Mode:** The audio output from each source connected to the AVAtrix is looped out to the corresponding audio output on the 1172BK. (Example: Source 1 audio is replicated on 1172BK's Output 1). This allows audio to remain live at each in-room Cat 5 receiver, while also interfacing to a third party whole house audio control system for further processing, amplification, and room selection.
- **Tracking Mode:** The audio output from the source currently selected on the AVAtrix in a zone is routed to the corresponding audio output on the 1172BK. (Example: Zone 2 is viewing Source 4 - the 1172BK would output Source 4 audio from its Output 2). The output from the 1172BK can then be connected to a separate dedicated amplifier, used to drive speakers in that zone. This allows audio to be switched in sync with the video source being viewed in each zone.

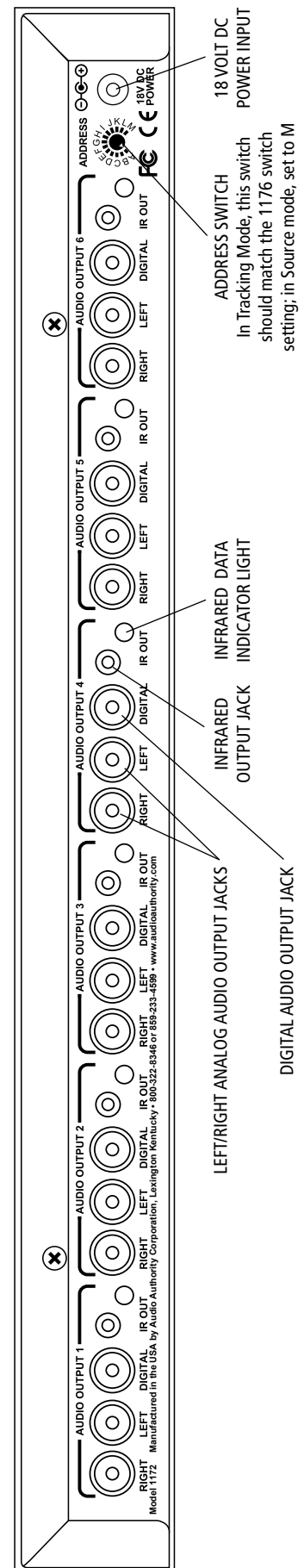
To complete this scenario, an infrared receiver (not included) plugged into the Cat 5 wallplate/receiver can receive IR commands to control the AVAtrix, its sources and the room's receiver.

Carton Contents

- Model 1172BK Audio Interface
- 18-volt power supply
- User manual
- Rack mounting adapters

Other Materials You May Need

- RCA patch cords
- IR emitters with 3.5mm plugs



Installation Instructions

These instructions address the Model 1172BK, which is always used with an AVAtrix™ system. The system must include either a Model AVM-562 or Model AVX-562 with Model 9878, 9879 or 9880 Cat 5 zone receivers, and can also include Model 1176BK matrix expander(s). Refer to the AVAtrix instruction manual for complete installation and setup directions.

The 1172BK provides an audio breakout point to connect an independent audio distribution system of any brand that accepts stereo analog audio or digital audio. It can be used in two different ways; Source Mode, with an advanced audio system having its own integrated switching, and Tracking Mode, with an audio system employing dedicated amplifiers for each room or zone.

- In Source Mode, each 1172BK output always provides the audio signal from its corresponding source input on the AVAtrix (e.g. source 1 audio is always available on 1172BK output 1).
- In Tracking Mode, each 1172BK output switches its content along with the AVAtrix so that the audio distribution system's output automatically matches what is playing on the video display in each room.
- Both modes allow for infrared communication from the AVAtrix Cat 5 receivers in each room back to a whole house audio system.

Source Mode

In this mode the unswitched audio channels of the six AVAtrix system A/V sources are provided as inputs to the audio distribution system. The Model 1172BK is therefore not associated with any Model 1176BK, so only one 1172BK is necessary even when there are multiple 1176BKs in the system as shown in the table below.

Model AVM-562 (Address A)	
Model 1176	Address B
Model 1176	Address C
Model 1176	Address D
Model 1176	Address E
Model 1176	Address F
Model 1172BK	Address M

1. Install the Model 1172BK anywhere in the AVAtrix stack and set its address dial to the "M" position.
2. Connect the desired audio outputs, which represent the six AVAtrix A/V sources, to audio input channels on the whole-house audio system.
3. Audio system infrared outputs, if present, are intended to control its input sources. Plug a stick-on IR emitter into each of the audio system's IR output jacks and apply the emitter to the corresponding AVAtrix A/V source. In this way, source control commands originating in each room are routed by the audio system via infrared to the relevant source.

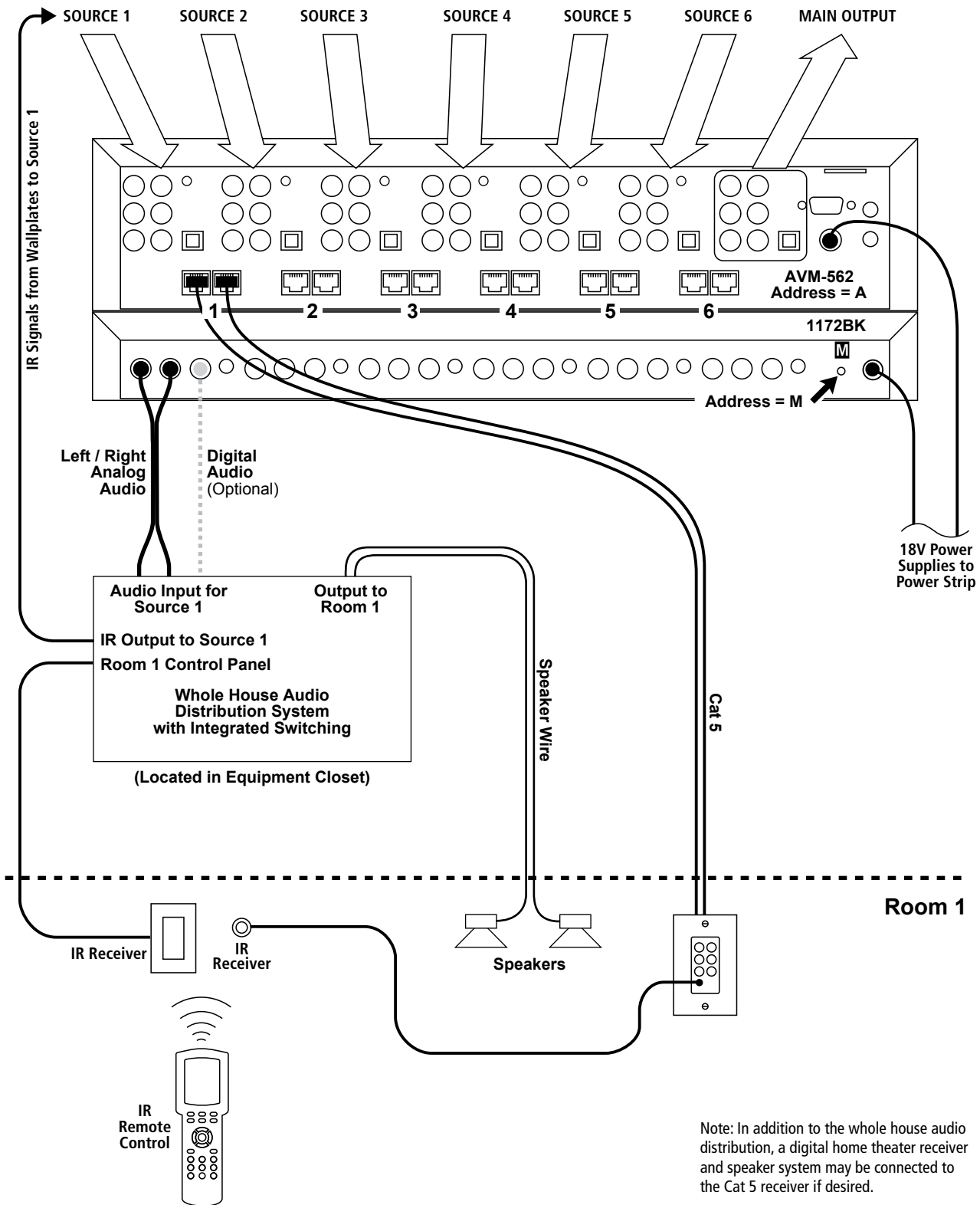
In Source Mode installations, AVAtrix IR commands must be routed through the Cat 5 receiver, necessitating two IR receivers in rooms with both A/V Cat 5 receivers and room audio service. See the Source Mode Hookup Diagram on the facing page.

Source Mode User Instructions

Depending on the installation, you will use a wall-mounted controller or an infrared or wireless controller to select which music from various audio-only or audio/video sources you wish to enjoy. Your installer will have connected the AVAtrix System and your whole-house or room audio system to work together, enabling you to bring the pictures and sound you desire to each location in your home.

Source Mode Hookup

Source mode is used with a whole-house audio system such as Russound CAA66 that includes its own switching. The 1172BK audio output #1 always provides the audio from Source 1.



Tracking Mode

To obtain up to six channels of analog or digital audio that track Cat 5 zone audio/video outputs, place a Model 1172BK in the AVAtrix equipment stack immediately beneath the related Cat 5 output row. The diagram on the facing page shows a basic system (for six zones), but an expanded system (for 18 zones) would be configured as shown in the table below.

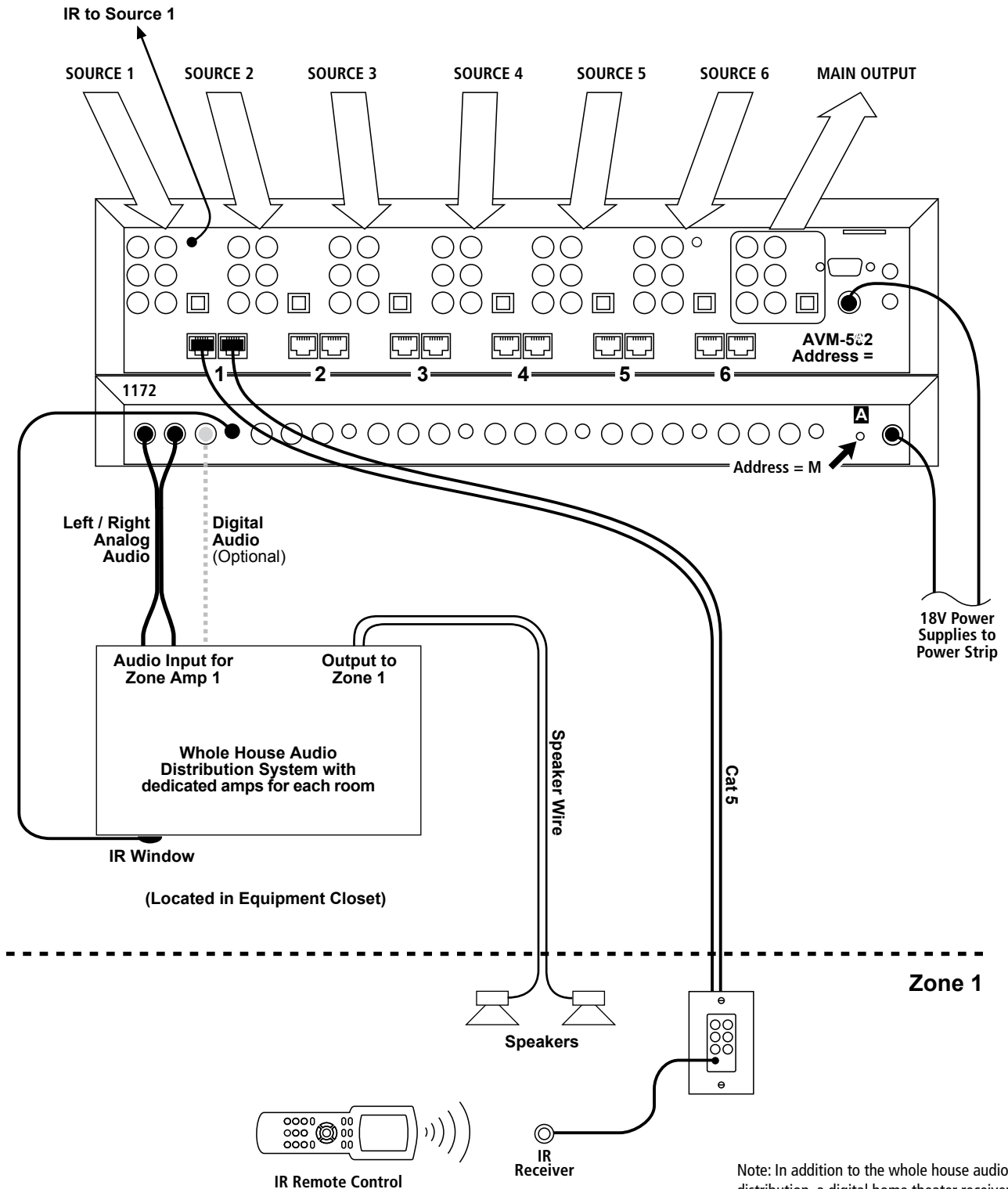
Model AVM-562 (Address A)	
Model 1172BK	Address A
Model 1176BK	Address B
Model 1172BK	Address B
Model 1176BK	Address C
Model 1172BK	Address C

1. Set the 1172BK rotary address switches to match the corresponding matrix outputs (AVM-562 or Model 1176BK).
2. Connect the #1 Cat 5 output of the AVAtrix to the Cat 5 receiver of the room you want to serve.
3. Connect the #1 output of the Model 1172BK to either the analog or digital audio inputs of an audio receiver used as the music source for that room.
4. Plug a stick-on infrared emitter into the #1 IR Output port of the Model 1172BK and place the emitter on the IR window of the audio amplifier or receiver. See the Tracking Mode Hookup Diagram.

Models 9878 and 9879 Cat 5 receivers or Model 9880 receivers may be used in any combination. An IR receiver plugged into the Cat 5 receiver permits infrared commands to be sent to the 1176BK for A/V source selection, to the AVAtrix A/V sources for source control, or to the room audio receiver for audio source selection, volume control, radio tuning, etc. The IR receiver can be wall or ceiling mounted as best suits the job requirements. The AVAtrix takes care of routing the IR signals generated in each room to where they must go.

Tracking Mode Hookup

Tracking Mode is used with audio distribution systems having dedicated amplifiers for each room's speakers. The 1172BK audio output #1 below tracks with the AVAtrix Cat 5 output #1 so that the audio matches the video at the zone. Address each 1172BK to match the AVAtrix outputs.



Note: In addition to the whole house audio distribution, a digital home theater receiver and speaker system may be connected to the Cat 5 receiver.

Limited Warranty

If this product fails due to defects in materials or workmanship within one year from the date of the original sale to the end-user, Audio Authority guarantees that we will replace the defective product at no cost. Freight charges for the replacement unit will be paid by Audio Authority (Ground service only). A copy of the invoice from an Authorized Reseller showing the item number and date of purchase (proof-of-purchase) must be submitted with the defective unit to constitute a valid in-warranty claim.

Units that fail after the warranty period has expired may be returned to the factory for repair at a nominal charge, if not damaged beyond the point of repair. All freight charges for out-of-warranty returns for repair are the responsibility of the customer. Units returned for repair must have a Customer Return Authorization Number assigned by the factory.

This is a limited warranty and is not applicable for products which, in our opinion, have been damaged, altered, abused, misused, or improperly installed. Audio Authority makes no other warranties either expressed or implied, including limitation warranties as to merchantability or fitness for a particular purpose. Additionally, there are no allowances or credits available for service work or installation performed in the field by the end user.



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