≡AVAtrix™ *Quick Start Guide*

1. Register

• Go to www.audioauthority.com and enter your product's serial number to receive future product updates, etc.

2. Add Expander(s) Details – User Manual page 10.

• Turn the AVAtrix upside down, remove the feet, and attach 1176 and/or 1172 expanders (for more than two expanders you must install a 7-port bus cable).

❗ Connect the bus cable firmly to each expander as it is added. Attach feet or rack ears.

• Turn the stack upright. Set the address switch on each expander, in order, from top to bottom: B, C, D, etc.

ADDRESS **B**

Address setting for the first 1176 in a stack (the AVAtrix is addressed A).

3. Connect Sources and Local Display Details – User Manual page 12.

❗Connect component video from each source, and connect left and right stereo audio.

• Some sources may use optical digital audio, while others use coax – connect EITHER optical OR coaxial digital audio outputs from each source, not both. (The AVAtrix converts all digital audio to coax for Cat 5 receivers.)

• Connect all desired audio and video cables from the local AVAtrix output to a local video display and sound system.

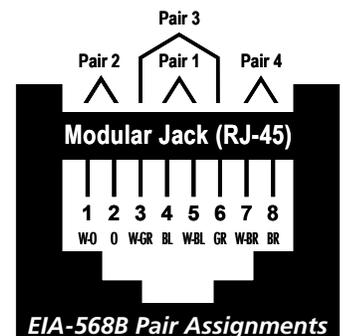• Test all source outputs through the AVAtrix.

4. Connect Cat 5 Receivers Details – User Manual page 11.

• Pull two Cat 5e/6 cables to each wallplate/receiver location. Use two different Cat 5 jacket colors to identify A and B cables, or be certain to mark both ends of each cable A or B. Damage may occur if the cables are connected to the wallplate/receiver incorrectly.

❗Use EZ RJ-45 connectors if possible, and a good quality modular connector crimping tool.

❗Carefully follow the EIA-568B chart to put the correct pairs together in each RJ-45 termination. This is essential to proper balanced line system function.

• Use a NETWORK CABLE TESTER to verify that the correct wire colors are paired together – even when using pre-made cables. CONTINUITY TESTING IS NOT ADEQUATE.

• Before connecting the wallplate/receivers, verify that the A and B cables are correctly identified at each end of each cable run.

• Connect Cat 5 cables to the wallplate/receivers, THEN connect the Cat 5 cables to the AVAtrix (and 1176 Expanders) and power the system.

• Connect a video display to each wallplate/receiver, adjusting the gain equalization to the optimal setting before permanent mounting.

Pair 3
Pair 2 Pair 1 Pair 4

Modular Jack (RJ-45)

1 2 3 4 5 6 7 8
W-O O W-GR BL W-BL GR W-BR BR
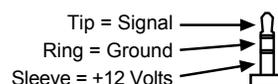
EIA-568B Pair Assignments

Also refer to the color illustration on the reverse of this guide.

5. Install IR System Details – Page 15.

• Disconnect AVAtrix power, then connect a compatible, 3-wire, 12 volt IR receiver to each wallplate/receiver as desired.

• Connect IR emitters from AVAtrix outputs to the appropriate source equipment. Connect power.
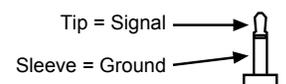
❗DO NOT USE EXTERNALLY POWERED IR EQUIPMENT (e.g. powered connecting blocks.)

Receiver Pinout

Tip = Signal
Ring = Ground
Sleeve = +12 Volts

WARNING: Connect receivers (12V only) directly to Wallplate, without connecting block.

Emitter Pinout

Tip = Signal
Sleeve = Ground

WARNING: Use only non-powered emitters, without connecting block.
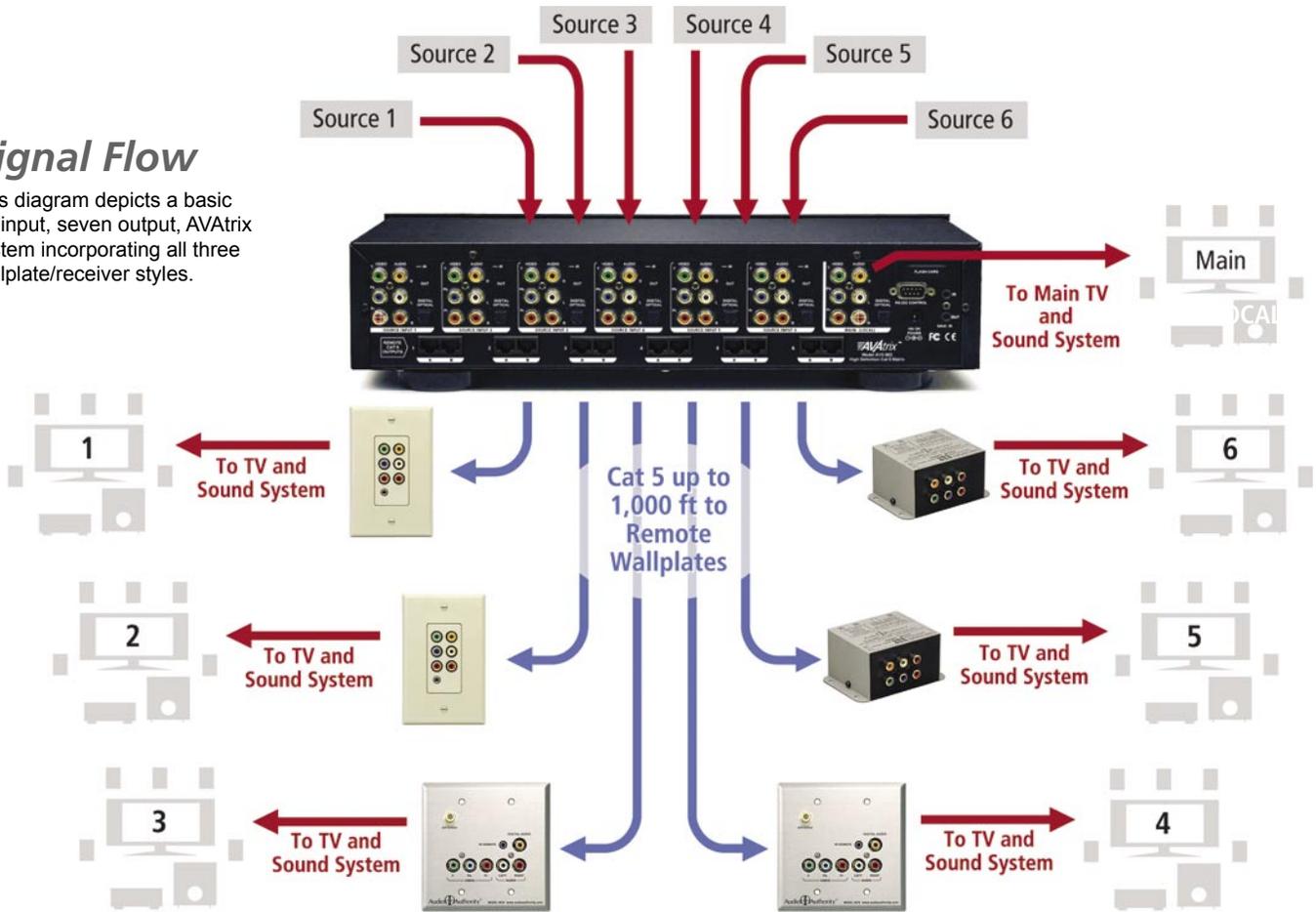
6. Customize Details – Page19.

• Use the AVAtrix Setup PC Utility to enter source names, assign parental restrictions, assign zone groups, and perform any other desired settings. First, remove the flash memory card from the rear of the AVAtrix and insert it in a PC card reader. Make changes and save to the card. Insert the card in the AVAtrix and choose "SAVE/LOAD FILE" in the AVAtrix Menu; follow on screen instructions.

• Make refinements to your settings using the front panel controls, and save user setup back to the flash memory card. Store the flash memory card in a secure place if desired. Lock the front panel controls, if necessary, to prevent unwanted adjustments.

Refer to the AVAtrix Installation Manual for installation details and troubleshooting guide.
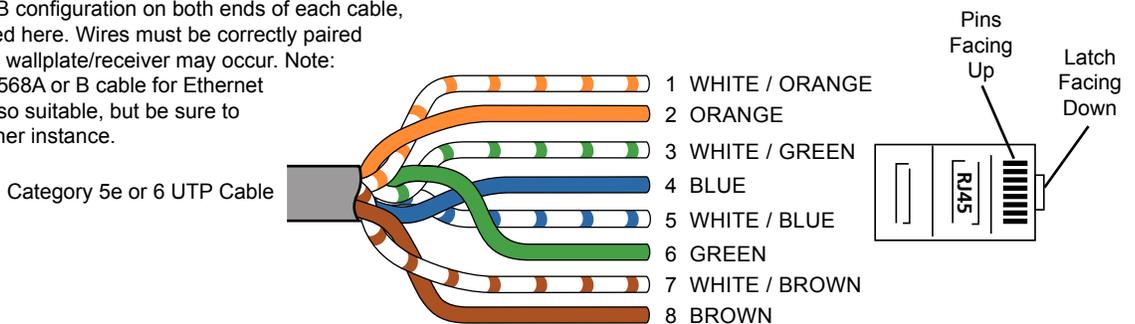
AVAtrix™
HD Cat 5 Matrix

Signal Flow

This diagram depicts a basic six input, seven output, AVAtrix system incorporating all three wallplate/receiver styles.

Source 1 Source 2 Source 3 Source 4 Source 5 Source 6

To Main TV and Sound System

Main

To TV and Sound System 1

Cat 5 up to 1,000 ft to Remote Wallplates

To TV and Sound System 6

To TV and Sound System 2

To TV and Sound System 5

To TV and Sound System 3

To TV and Sound System 4

Cat 5e or Cat 6 Wiring

Use the EIA-568B configuration on both ends of each cable, exactly as pictured here. Wires must be correctly paired or damage to the wallplate/receiver may occur. Note: A pre-made EIA-568A or B cable for Ethernet connections is also suitable, but be sure to test pairing in either instance.

Category 5e or 6 UTP Cable

1 WHITE / ORANGE
2 ORANGE
3 WHITE / GREEN
4 BLUE
5 WHITE / BLUE
6 GREEN
7 WHITE / BROWN
8 BROWN

Pins Facing Up

Latch Facing Down

RJ45

Audio Authority®