



UltraAV® 4x4 HDMI 1.3 Audio/Video Matrix Switch

Thank you for purchasing the UltraAV® 4x4 HDMI 1.3 Audio/Video Matrix Switch. This HDMI matrix switch is designed to select and transmit an audio and video signal from any 4 inputs to any 4 displays.

Features:

- Supported resolution up to 1080p
- Built-in signal repeater (see **Built-in Repeater** below)
- HDMI 1.3 High-Speed compliant up to 6.75Gbps (225MHz)
- RS-232 Interface and mini-USB port
- Fully compatible with HDCP compliant devices

Includes:

- 4X4 HDMI 1.3 matrix switch
- Infrared (IR) extender
- IR remote control (with battery)
- Power adapter
- Instruction manual with warranty

Infrared Extender: In order to operate the HDMI switch with the infrared remote control, the front of the matrix must be in the line-of-sight to the remote control. If the matrix is placed out-of-sight then the IR extender should be used. Plug the extender into the port labeled “Remote CNTL” on the rear of the matrix and place the end of the IR extender in a visible location to the remote control.

Built-in Repeater: The UltraAV 4x4 HDMI 1.3 Matrix Switch has a built-in signal repeater that supports up to a 50’ cable length between each A/V source and the switch and 16’ (5m) between the switch and each video display. For longer cable runs between the switch and the displays, use a high quality, heavy gauge cable or an amplified “UltraRun” HDMI cable.

How to Connect the HDMI Matrix Switch (*please follow the steps in the order described*):

- Step 1:** Insert the included power adapter into the power jack labeled “DC Input 5.3V” located on the rear of the HDMI matrix switch. Plug the adapter into an active power outlet. Turn the **Main Power** on the rear of the switch to the **Off** position. The vertical line (**I**) is the On position and Off position is the circle (**O**).
- Step 2:** Connect the HDMI cables from each of the A/V sources into the inputs starting with “Input A” located on the rear of the HDMI matrix switch.
- Step 3:** Connect the HDMI cables from each of the TV’s into the ports starting with “Output 1” on the rear of the switch.
- Step 4:** Turn “On” the power of each of the A/V sources and each of the displays.
- Step 5:** If locating the switch in an out-of-sight location, use the IR extender. See **Infrared Extender** above.
- Step 6:** Turn the **Main Power** on the rear of the switch to the On (**I**) position.

How to Operate the HDMI Switch:

1. Push the **On** or **Off** button on the discrete remote control to turn the switch on or off (standby mode). Alternatively the **Standby/On** button on the front of the switch can be used. Standby is a power saving mode, however when in standby mode the switch is not off. It is alert and still able to respond to the remote controls **On** button. The illuminated Green LED indicates the matrix switch is on. The Illuminated Red LED indicates the matrix switch is in standby mode.
2. The **Main Power** switch located on the rear of the HDMI matrix switch cuts off all power leading into the matrix switch. The Main Power is not controlled by the remote control and must be operated manually.
3. With the switch on, use the **remote control** to select the display (Output) using the 1, 2, 3 or 4 buttons. Then select the desired video source (Input) by pressing the letter A, B, C or D. The unlabeled buttons down the center of the remote are not functional. The round thumb toggle serves a similar function allowing the selection of the desired Output and the circular arrow providing scrolling selection of the video Inputs. Alternatively, a **Select** button on the face of the matrix is provided for each of the displays. Press the select button of the desired display to switch between video sources.

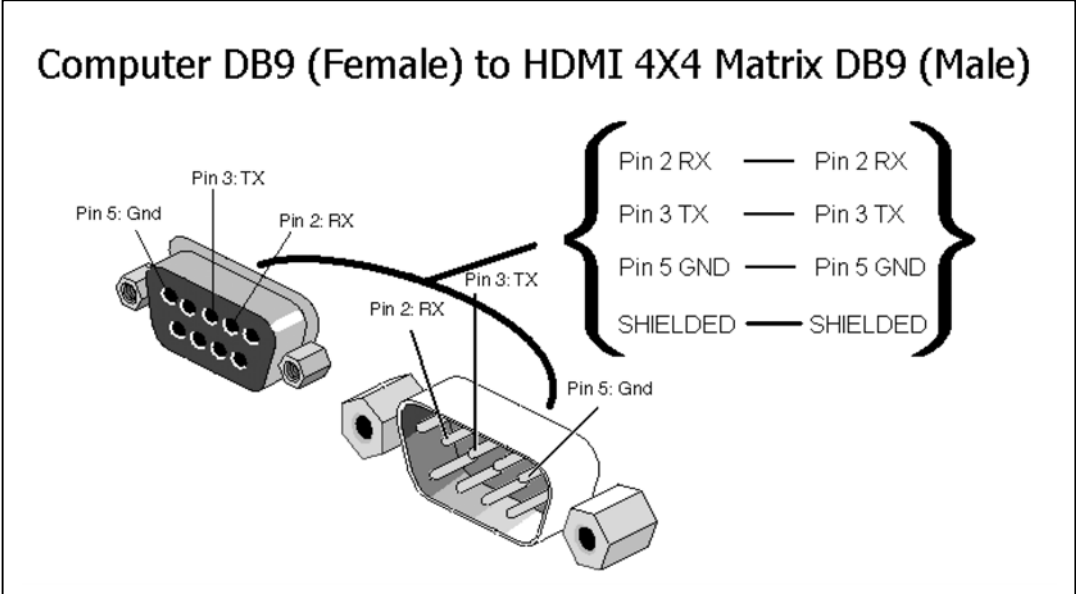
Remote Control: The remote control uses 2 AA batteries (included). Remove the cover on the back of the remote and insert the batteries. The Matrix is pre-configured to operate with the remote control in “**Remote 1**” mode. Press “**Remote 1**” if the remote does not operate the matrix. See Multiple Matrix Support below for more information on Remote modes.

Mini USB Port: On the rear of the switch there is a Mini-USB port labeled **Firmware Access**. This port is used to access and update the switch’s firmware using a PC and a mini-USB cable (not included). If the switch is not operating properly, a firmware update may be available. Go to our Web site at www.accellcables.com/support. If the switch is operating properly, do not update the firmware. A firmware update will not further improve the performance of the switch.

Multiple Matrix Support: If multiple matrixes are being used in the same location or if remote controls from other devices are creating a conflict, the matrix remote codes can be updated via the mini USB port. Two additional sets of remote codes are available for download from the Accell Web site. The Matrix is pre-configured to operate with “**Remote 1**” on the remote control. If control codes “Remote 2” or “Remote 3” are downloaded, press the corresponding button on the remote for it to function with the new remote codes.

RS-232 Control Interface Settings:

DB9 Female to DB9 Male
Bits per second = 57600
Data bits = 8
Parity = None
Stop bit = 1
Flow Control = None



RS232 Control Code (Remote 1) The matrix comes pre-configured with these control codes.

Item	Command	Description	Item	Command	Description
1	SWC <input type="checkbox"/> 1 <input type="checkbox"/> A	Switch output channel 1 to input channel A	11	SWC <input type="checkbox"/> 3 <input type="checkbox"/> C	Switch output channel 3 to input channel C
2	SWC <input type="checkbox"/> 1 <input type="checkbox"/> B	Switch output channel 1 to input channel B	12	SWC <input type="checkbox"/> 3 <input type="checkbox"/> D	Switch output channel 3 to input channel D
3	SWC <input type="checkbox"/> 1 <input type="checkbox"/> C	Switch output channel 1 to input channel C	13	SWC <input type="checkbox"/> 4 <input type="checkbox"/> A	Switch output channel 4 to input channel A
4	SWC <input type="checkbox"/> 1 <input type="checkbox"/> D	Switch output channel 1 to input channel D	14	SWC <input type="checkbox"/> 4 <input type="checkbox"/> B	Switch output channel 4 to input channel B
5	SWC <input type="checkbox"/> 2 <input type="checkbox"/> A	Switch output channel 2 to input channel A	15	SWC <input type="checkbox"/> 4 <input type="checkbox"/> C	Switch output channel 4 to input channel C
6	SWC <input type="checkbox"/> 2 <input type="checkbox"/> B	Switch output channel 2 to input channel B	16	SWC <input type="checkbox"/> 4 <input type="checkbox"/> D	Switch output channel 4 to input channel D
7	SWC <input type="checkbox"/> 2 <input type="checkbox"/> C	Switch output channel 2 to input channel C	17	PWR <input type="checkbox"/> 1	System Power ON
8	SWC <input type="checkbox"/> 2 <input type="checkbox"/> D	Switch output channel 2 to input channel D	18	PWR <input type="checkbox"/> 0	System Standby
9	SWC <input type="checkbox"/> 3 <input type="checkbox"/> A	Switch output channel 3 to input channel A	19	RST	System Reset. All channels go back to channel A
10	SWC <input type="checkbox"/> 3 <input type="checkbox"/> B	Switch output channel 3 to input channel B			

Specifications:

- HDMI Connectors: 4-inputs/4 outputs. HDMI Type A 19-pin female
- IR Extender Length: 5-feet
- Power: 100-240VAC, 50/60Hz
- Dimensions: 9"(W) x 5"(L) x 2"(H)
- Switch Weight: 3.2 lbs.
- Signal Booster: 50' maximum cable length from video source to switch
- Controls: Discrete IR, RS-232 and Push Button
- HDMI 1.3b compatible
- Bandwidth: 6.75 Gbps (225 MHz)
- Maximum Support Resolution: 1080p
- Maximum Color Support: Deep Color 36-Bit

Assistance: If you have questions please check out the Accell Web site at: www.accellcables.com/support. Technical Support can be reached by E-mail at support@accellcables.com or at 510-438-9288 (M-F 9am-5pm PST).

Warranty and Returns

1-YEAR MANUFACTURERS WARRANTY

Accell UltraAV 4X4 HDMI 1.3 Matrix Switch, which is purchased in the U.S.A and Canada, is warranted for one year from date of purchase to be free of defects in material and workmanship. In the event of such defects, the Accell product will be repaired without charge or replaced with a new one at our option, if delivered to Accell Corporation prepaid, together with a copy of the sales receipt indicating the proof of purchase date and place of purchase. This warranty excludes defects due to normal wear, abuse, shipping damage, or failure to use the product in accordance with the instructions. ACCELL CORPORATION SHALL NOT BE LIABLE FOR DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE PRODUCT, LOSS OF TIME, INTERRUPTED OPERATION OR COMMERCIAL LOSS, OR ANY OTHER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE. YOU AGREE THAT ACCELL'S MAXIMUM LIABILITY ARISING FROM ANY PRODUCT SOLD BY ACCELL SHALL NOT EXCEED THE PRICE OF SUCH PRODUCT. SOME JURISDICTIONS DO NOT ALLOW THE LIMITATION OF EXCLUSION OF LIABILITY FOR CERTAIN DAMAGES, SO THE ABOVE MAY NOT APPLY TO YOU TO THE EXTENT SUCH JURISDICTION'S LAW IS APPLICABLE TO THIS AGREEMENT. This warranty gives you specific legal rights, and you may have other rights that vary from state to state.

WARRANTY RETURNS PROCEDURE

To return an item under warranty, contact Customer Support by E-mail at support@accellcables.com or call 510-438-9288 to obtain a Return Authorization (RMA) number. RMA numbers are valid for 30 days from the date of issuance. We are unable to accept returns without an RMA number. Returns without an RMA number clearly printed on the outside of the package will be refused and returned unopened. All returns must be shipped prepaid at the expense of the shipper.

The information above is believed to be accurate, however Accell assumes no responsibility for any inaccuracies and liability for direct, indirect, special, incidental, or consequential damages as a result. Due to ongoing improvements, Accell reserves the right to make changes to hardware, packaging and any documentation without prior written notice.