

PRO HD HOME THEATER SERIES

Model: HDMXA71

Installation Guide

Safety Information:



Electrical safety

• Use only the power supplies and the AC power cord that were included with your product.

Use of other power supplies could damage the product or cause shock, or other hazards

- For Indoor Use only
- Avoid excessive humidity, or temperature extremes
- Do not place the product in any area where it may become wet.
- Unplug the power supplies and the AC power cord before cleaning, or removing any panels for servicing.
- When adding or removing devices to or from the product, disconnect all power cables from the existing product before you add a device.

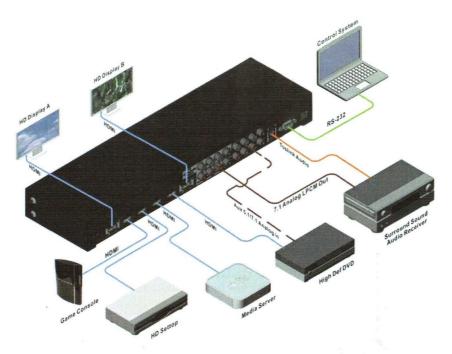
Operation safety

- Install the product in a well ventilated location. Keep ventilation opening free of obstructions.
- Don't block any ventilation openings on the unit.
- Avoid dust, humidity, and temperature extremes.
- Do not place the product in any area where it may become wet.

If you are unsure, please contact your authorized service center.

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*Note 1: Analog output supports only LPCM audio format. Unit does NOT decode Dolby or DTS.

Note 2: You must set your PS3, or source to LPCM mode in order to use the Analog Audio Output from HDMI.

Note 3: Aux Input port allows connecting a 2nd analog audio source and "loop thru " to the Analog Audio Output. Does not convert Analog Audio to HDMI.

Application Diagram

Installation:

- 1) Connect the Monitor(s) to the HDMI OUT ports
- 2) Connect the HDMI source to the HDMI INPUT
- 3) Connect audio cables (optional)
- 4) Connect the DC power adapter

Description:

The HDMXA71 video matrix switch enables video switching of 4 video sources to 2 displays up to 16 viewing combinations. The HDMXA71 also includes both analog and optical audio output for integration with an existing audio system.

The Optical audio output supports both PCM and Bitstream audio formats. LPCM audio is supported thru the RCA analog audio outputs(x8). Perfect for systems with LPCM support such as PS3. An Auxiliary (8ch) audio Loop thru port is included to connect to a second Analog (8ch) source.

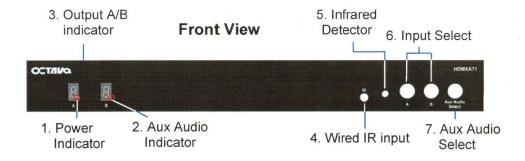
Features:

- 1080P, 3D support
- 4 HDMI inputs, 2 HDMI outputs
- Analog audio output (8ch.) -Note 1,2
- Aux Analog Input port (8ch.)- Note 3.
- Optical Toslink Digital Audio Output-2CH, Bitstream
- Supports high resolution video 480 P, 720 I/P, 1080 I/P
- Seamless integration with your existing Audio Receiver.
- Remote Control (IR) included. Discrete Code allows direct channel control.
- 1RU rack mountable.
- Wired IR port for In-cabinet installations.
- RS232 port for PC or Control System operation.
- USB service port for EDID or code customization

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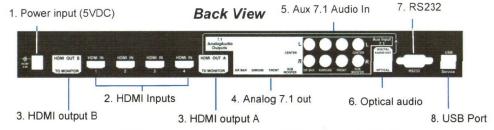


	Function	
1	Power Indicator	2.
2	Aux Audio Input Indicator	LED is illuminated if the Aux Input is selected (loop thru mode)
3	Output A/B Indicator	Displays the Input selected
4	Wired IR input	connect Octava supplied IR Receiver Extension cable (optional) for hidden cabinet installs requiring line of sight for IR control.
5	IR detector	Senses IR from remote control
6	Input select button	Press to switch inputs for output A and B
7	Aux Audio Select	Press to change the Analog Output Mode between : Aux Input or HDMI mode

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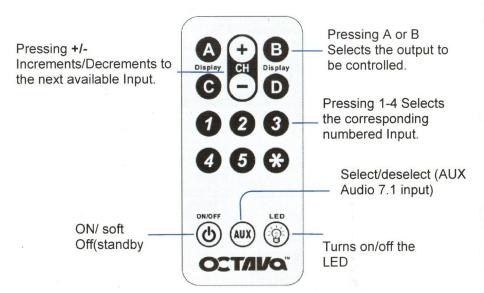
	Back Side Connectors	Function	
1	Power In	5V DC	7.
2	HDMI Inputs	connect High Speed HDMI cables to Source device.	
3	HDMI Outputs A/B	connect High Speed HDMI cables to AVR or Display device.	
4	7.1 Analog Audio Output	Connect to Audio Amp/receiver.	
	HDMI Mode	Analog Audio Output is from the selected HDMI source.	Note 1,2
	Aux Input Mode (Loop Thru)	Analog Audio Output is from the (see 5)connected analog audio connection.	Note 3.
		AUX audio indictor led will illumina Aux input Mode (Loop thru) is sele	
5	Aux Input 7.1	-Connect to the source Analog Audio Outputs. Routes Analog Audio output directly from the source player to the 7.1 Analog Audio Output. Routes from 5 to 4.	
6	Optical Digital Output	Outputs audio over Toslink. Audio will play the Out A source selection.	
7	RS-232	for external control of Matrix via PC or 3rd party Control system.	
8	USB Port	for custom EDID/ code updates	

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Remote Control Guide:



Button	Function	Notes
+, -	Increments/Decrements to the next available Input	
1,2,3,4	Selects the corresponding numbered Input	
8	Turns ON/OFF the LED.	
(4)	Turns ON/ soft Off(standby) the unit	-
Other	Not used	

Octava's Remote control uses discrete code so can be easily integrated with most Universal Remote Controls such as Logitech's Harmony.

Basic Quick Start:

Use the remote control to select Output A or B Display that you wish to control followed by the Input that you wish to watch.

For example:

-Pressing Display B, "2" will switch Input 2 to Out B.

-To connect **DIPLAY A to IN1 and DISPLAY B to IN3** you simply follow this sequence

Step 1) Display A, 1 (this will set Display A to Input 1)

Step 2) Display B, 3 (this will set Display B to Input 3)

Here are some more examples:

Output Selection (Step 1)	Input Selection (Step2)	Result
DISPLAY A	"2"	Display A switches to Input 2
DISPLAY B	"1"	Display B switches to Input 1
DISPLAY A	"+"	Display A increments to next available Input
DISPLAY B	"_"	Display B decrements to next available Input

RS232 Control Commands:

The Octava HD HDMXA71 can be easily integrated with 3rd Party control systems via RS232 control. The following shows the control

protocol:

RS-232 protocol				
Baud Rate	9600			
Data Bits	8			
Parity Check	none			
Stop Bits	1			
Flow control	none			

Controlling the HDMXA71 via RS232 can be done by sending a series of commands per the **RS232 Command Table.**

Basic controls							
Note: The commands are in HEX. No spaces between HEX codes. "0x" denotes HEX. No need to enter "0x"							
UX deflote	HEX CODE						
Port Status	0x02	0x30	0x30	0x31	0x03		
Turn ON LED	0x02	0x30	0x30	0x33	0x03		
Turn OFF LED	0x02	0x30	0x30	0x34	0x03		
Turn ON Power	0x02	0x30	0x30	0x35	0x03		
Turn OFF Power	0x02	0x30	0x30	0x36	0x03		

Example:

Send Command: 02 30 30 34 03 in Hex To turn off LED

Switching Commands					
Note: The commands are in HEX. No				codes.	
"0x" denotes HEX	. No need	to ente	er "0x"		
Output A Switching Commands		HI	EX CO	DE	
Select OUT A to Input port 1	0x02	0x32	0x31	0x31	0x03
Select OUT A to Input port 2	0x02	0x32	0x31	0x32	0x03
Select OUT A to Input port 3	0x02	0x32	0x31	0x33	0x03
Select OUT A to Input port 4	0x02	0x32	0x31	0x34	0x03
Output B Switching Commands					
Select OUT B to Input port 1	0x02	0x32	0x32	0x31	0x03
Select OUT B to Input port 2	0x02	0x32	0x32	0x32	0x03
Select OUT B to Input port 3	0x02	0x32	0x32	0x33	0x03
Select OUT B to Input port 4	0x02	0x32	0x32	0x34	0x03

Switching Commands						
Note: The commands are in HEX. No spaces between HEX codes. "0x" denotes HEX. No need to enter "0x"						
HEX CODE						
Aux Analog ON/ HDMI 7.1 Audio OFF 0x02 0x39 0x30 0x31 0x03						
Aux Analog OFF / HDMI 7.1 Audio ON	0x02	0x39	0x30	0x32	0x03	

EDID Configuration:

The HDMXA71 pre-programmed EDID table is listed below (see Default EDID).

In addition, alternative or customized EDID can be downloaded via the USB port for optimum integration into your system.

	Video EDID
	Learn EDID resolutions from connected devices.
	If Both Displays are connected, the lowest common resolution will be stored
Default	
EDID	For example, a 1080i and 1080P display is connected,
LDID	1080i resolution will be stored.
	Audio EDID
	LPCM 2-Ch / 5.1/ 7.1 (44/88/96/176/192-kHz)
	Dolby Digital 5.1, DTS 5.1
	additional EDID can be downloaded to the HDMXA71 via the USB Port.
	Please visit our support page
Custom	https://octavainc.com/support%20and%20updates.html#HDMXA71USB
EDID	Intips://octavaline.com/support/020and/020apdates.html#/1DIVIXA/100B
LDID	If you are unsure or need assistance, please contact us
	at: info.octavainc.com
	40 11101004141111100111

USB Service Port:

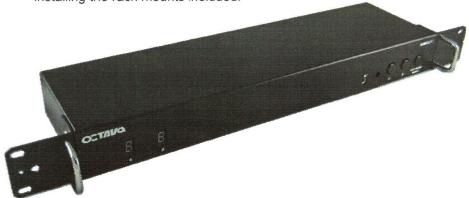
The HDMXA71 USB port allows the unit to update EDID or functionality.

Please visit our support page https://octavainc.com/support%20and%20updates.html#HDMXA71USB

If you are unsure or need assistance, please contact us at: info.octavainc.com

1 RU Rack mount:

The Octava HDMXA71 can be installed in a 1 RU rack by simply installing the rack mounts included.



Disabling /Enabling Front Panel IR Remote Receiver:

To disable the front panel IR remote receiver-insert the plastic plug into the IR jack as shown.



Front panel IR receiver -disabled

Warranty

Octava warrants the equipment purchased to be free from defects in material and workmanship under normal use and service for a period of 1 year. In the event applicable law imposes any implied warranties, the implied warranty period is limited to 1 year from the date of receipt. If Octava's equipment fails because of defects (1) year from the date of receipt, Octava will at its option, A) repair or replace the equipment, or B) request return of equipment for refund of the price paid for the product provided that the equipment has not been subjected to mechanical, electrical or other abuse or modifications.

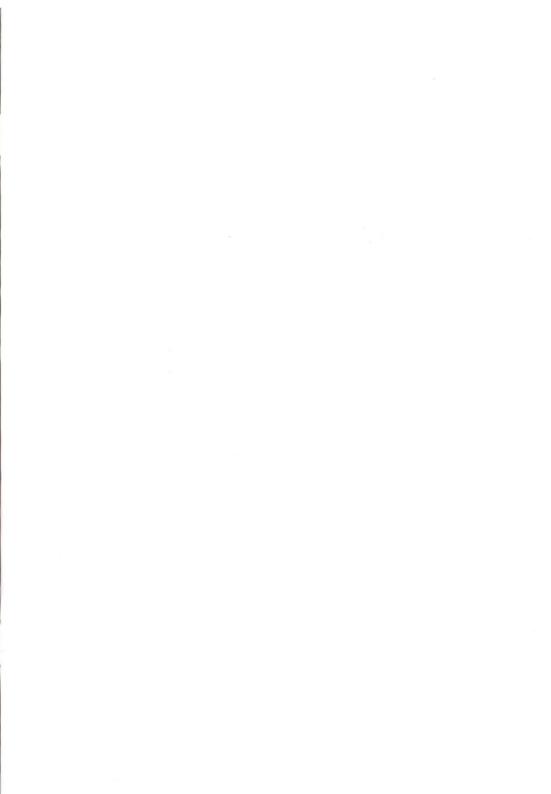
Proof of sale required to claim warranty.

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Description	Specifications
Model	HDMXA71
HDMI Inputs	4
HDMI Outputs	2
Optical Toslink Digital Audio Output	1 2CH PCM, Bit Stream
Analog Audio Output	1 (8ch.) Supports only LPCM audio format. Unit does NOT decode Dolby or DTS.
Aux Analog Audio Input (for loop thru /bypass mode)	1 (8ch.) Aux Input port allows connecting a 2nd analog audio source and "loop thru" to the Analog Audio Output. Does not convert Analog Audio to HDMI
RS-232	1
USB Service Port	1
Video Resolution	480P, 720I/P, 1080P
Vertical Frequency Scan Rate	24 / 50 / 60 Hz
Dimension	15.07 x 4.12 x 1.67 inch (382.9 x 104.7 x 42.3 mm)
DC adapter (included)	5VDC, 2.5A
Rack mount capable	1RU, Rack mounts included
Remote control (IR)	Infrared, discrete code.

For Questions and support:

Email: info@octavainc.com
URL: www.octavainc.com

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