

OCTAVA™

3x8 HD Distribution Amp

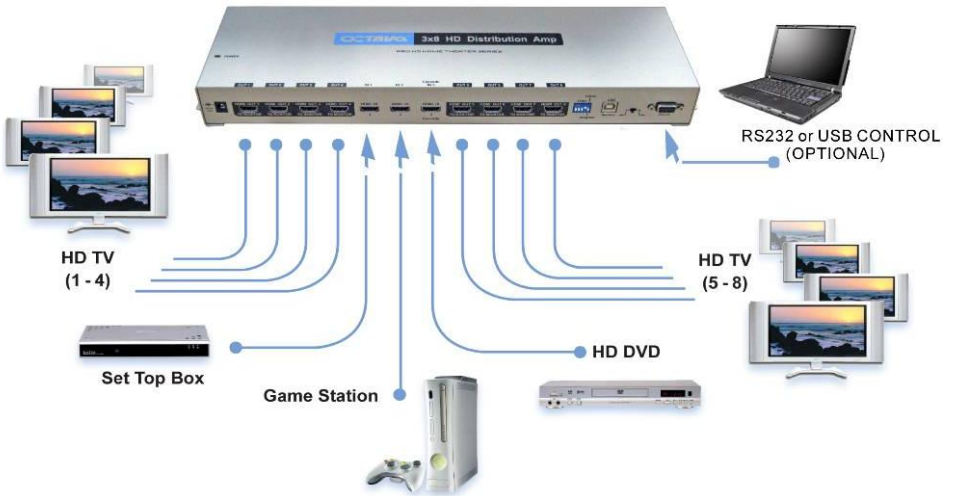
PRO HD HOME THEATER SERIES

Model: HDDA38

Installation Guide

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Application Diagram

Installation:

- 1) Connect the Monitors to the HDMI OUT ports
- 2) Connect the HDMI sources to the HDMI INPUTS
- 3) Connect the DC power adapter

Cascading 3x8 Amp:

The 3x8 HD distribution amp can be cascaded to distribute to more than 8 displays.

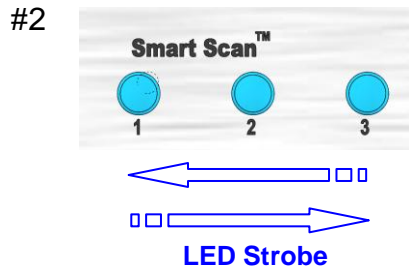
For best performance when cascading amps, please connect using the port labeled "cascade" (*see page 14 for cascade diagram*)

Configuring Smart Scan™:

The Smart Scan is disabled before shipment. It is recommended to keep Smart Scan disabled in most applications.

To enable Smart Scan™

- 1) Press and hold select button for 5 seconds until LED strobe.



To disable Smart Scan™

- 1) Re-power the HDDA38 and the HDDA38 will reset with Smart Scan disabled.

Description:

The Octava 3x8 HD Distribution Amp is designed for Professional HD installations requiring multiple HD displays. The 3x8 HDMI distribution amplifier includes 3 HDMI source inputs and 8 HDMI outputs. The 3x8 HDMI Distribution Amplifier can be used in standalone application to distribute HDMI video and audio to 8 HD displays or cascaded to create large HD display centers requiring more than 8 HD displays.

The **Pro Series** HDDA38 provide **3D support**, **Full 1080P**, and is **1 RU Rack** mountable for professional installations. In addition, the HDDA38 incorporates sophisticated **EDID management** and USB service port for customization. **RS-232 serial** interface is provided for integrating with 3rd party control systems.

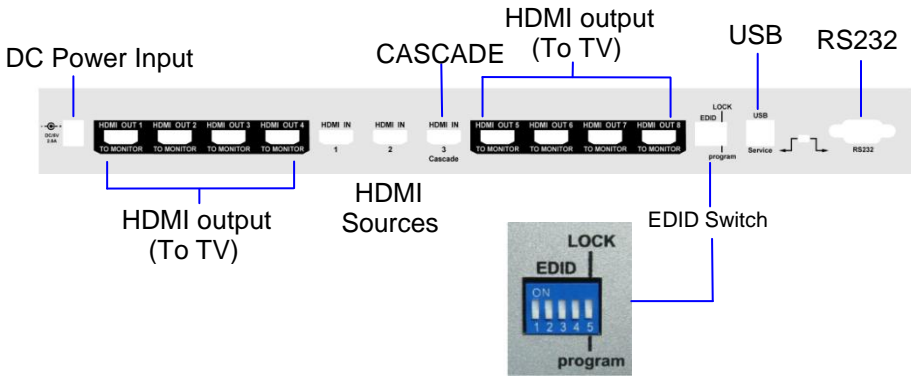
Features:

- 1080P resolution
- 3D Support
- **3** HDMI inputs, **8** HDMI outputs.
- Cascadeable
- **Wall Mount** or **1 RU** mountable (rack mount included)
- **EDID Management**, **USB** service port for customization needs.
- **RS-232** control
- Supports high resolution video 480p, 720i/p, 1080i/p
- RS-232 Control Program Included

Front View

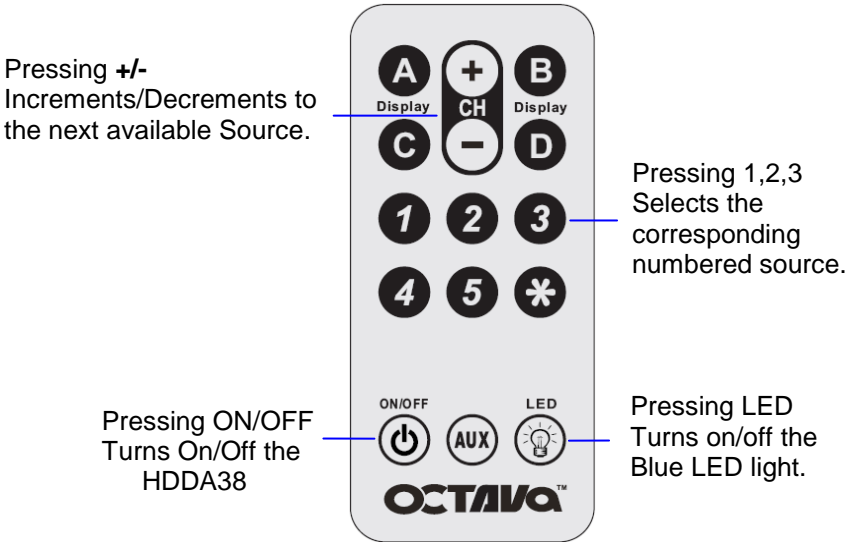




Back View



Switch Number	1	2	3	4	5
Name	EDID switch	EDID switch	EDID switch	EDID switch	LOCK switch
Function	EDID MODE select	EDID MODE select	EDID MODE select	EDID MODE select	Lock settings.
					Down= Unlocked Up= Locked

Remote Control Guide:

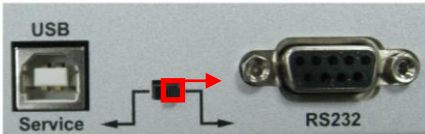


Button	Function	Notes
+ , -	Increments/Decrements to the next available Source	
1,2,3	Selects the corresponding numbered source.	
	Turns ON/OFF the LED light.	
	Turns ON/OFF the HDDA38.	
Other	Not used	

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

RS-232 Control Commands:

The Octava 3x8 HD Distribution Amp can be easily integrated with 3rd Party control systems via RS-232 control. The following shows the control protocol for controlling the HDDA38.



Set the switch to RS-232 side as shown.

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

Basic controls				
Note: The commands are in HEX. No spaces between HEX codes.				
	HEX CODE			
Port Status	0x02	0x30	0x31	0x03
Turn ON LED	0x02	0x30	0x33	0x03
Turn OFF LED	0x02	0x30	0x34	0x03
Turn ON Power	0x02	0x30	0x35	0x03
Turn OFF Power	0x02	0x30	0x36	0x03
Turn ON Smart Scan	0x02	0x30	0x37	0x03
Turn OFF Smart Scan	0x02	0x30	0x38	0x03

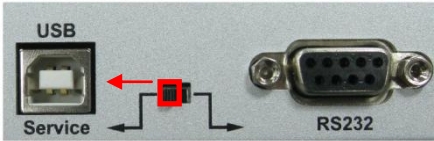
Switching Commands				
Note: The commands are in HEX. No spaces between HEX codes.				
	HEX CODE			
Select OUTPUT to Input port 1	0x02	0x32	0x31	0x03
Select OUTPUT to Input port 2	0x02	0x32	0x32	0x03
Select OUTPUT to Input port 3	0x02	0x32	0x33	0x03

Example: To turn off LED. Send Command:

02 30 34 03(in Hex)

USB Service Port:

The USB port is for service and EDID updates if needed.
Contact us for this feature.



Set the switch to
USB/Service side as shown.





EDID Configuration:

The HDDA38 can be configured to 4 EDID settings.

It is recommended to keep the EDID in the default factory mode 1.





*Custom EDID mode can be downloaded via USB. Contact us for this feature.

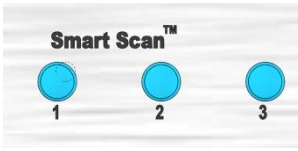


To change the EDID settings, please see section “*changing EDID settings*” for programming instructions.

Mode	Video	Audio	Description	Switch settings
1	480P,720 I/P, 1080 I/P	2 Ch PCM, Bitstream (Dolby Digital, DTS)	Default Mode. Internal EDID	
2	Read EDID of all monitors / receivers and set: Video= Minimum Resolution of devices connected.	Read EDID of all monitors / receivers and set: AUDIO = Maximum capability of devices connected	External EDID	
3	480P,720 I/P, 1080 I	2 CH PCM	Basic Mode. Internal EDID	
4	480P, 720 I/P, 1080 I/P, + 3D specifier	2 CH PCM, Bitstream (Dolby Digital, DTS)	3D Mode. Internal EDID *Custom Mode	

Changing EDID mode:

It is recommended to keep the EDID in the factory default MODE1. If necessary, you may set to different EDID mode by following these instructions.

Step	Action	LED Indicator	Notes
1	Disconnect all sources and display from HDDA38		
2	Set switch 1,2,3,4,5 to down position as shown		
3	Set the EDID to the mode desired. (MODE 2 shown.)	See page 10 for other EDID modes)	
4	Reset Power to the HDDA38 by disconnecting the power and reconnecting power.	.	
5	The LED will now indicate the EDID Mode that you will program.(mode 2 shown)	LED will flash: 1=Mode 1 2=Mode 2 3=Mode 3 1,3=Mode 4	

6	Press the button on the front panel. LED will flash for ~2 min while programming.	Programming will take ~2 minutes. LED will flash while programming.	
7	Wait. Programming is complete when LED indicates "1"		
8	Set to LOCK Position		
9	Connect all video sources and displays and turn ON		
10	Re-power the HDDA38		

1 RU Rackmount:

The Octava 3x8 HD Distribution Amp can be installed in a 1 RU rack by simply installing the rack mounts included.



Disabling / Enabling IR Remote Control Receiver:

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



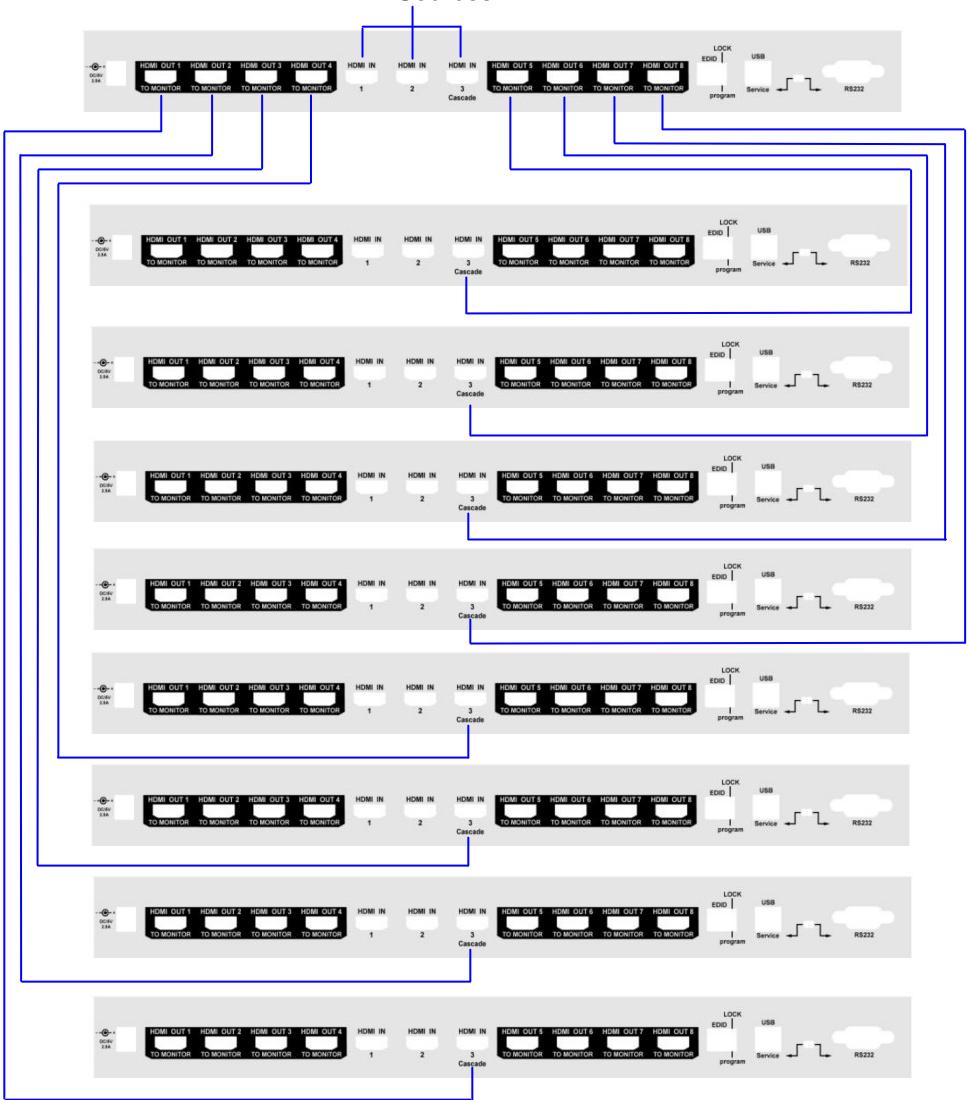
IR disabled



IR enabled

Cascade Diagram:

HDMI Sources



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	HDDA38
HDMI Inputs	3
HDMI Outputs	8
RS-232 control port	1
Display Selection	Remote, Manual, Smart Scan
Video Resolution	480 P, 720 I/P, 1080 I/P
Video Data Rate	6.75 Gbps
Vertical Frequency Scan Rate	24/50/60 Hz
Dimension	17.29 x 4.71 x 1.80 inch (439.2 x 119.7 x 45.8mm)
DC adapter (included)	5VDC, 2.5A
Rackmount 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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