



USER MANUAL



DV-HDA-12 HDMI Distribution Amplifier

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LIT1370

Proprietary Information

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Unpacking

DV-HDA-12 HDMI Distributor package includes the following items;

- DV-HDA-12 HDMI Distribution Amplifier Unit x 1
- 5V/2A Power Supply Adapter x 1
- User manual x 1



Cautions:

1. FSR logo is a trademark of FSR Inc.
2. HDMI is a trademark of HDMI licensing, LLC.
3. Specification may be changed without any notice in order to improve the function of the product.
4. The design and specification of the product may be change without any prior notice.

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Description, General Specification

DV-HDA-12 HDMI Distribution Amplifiers, allow one digital video sources to be spilt into multiple digital displays. The built-in amplification function enables HDMI signal distribution without signal loss

ITEM	DESCRIPTION
Model Name	DV-HDA-12
Input Signal	HDMI Single Link , 1port
Output Signal	HDMI Single Link , 2ports,
Resolution	640x480, 800x600, 1024x576 1280x720, 1920x1080 480i/p , 720i/p , 1080i/p, 1080p
HDCP Support	Repeater
Power Consumption	DC +5V , 3W Max
Dimension	7.25"x4.5"x1.5" (185x 115x 38mm)
Weight	1.25lbs (560g)

Environmental and Reliability Specifications

Operating Conditions

Temperature:	50°– 104°F (10°– 40°C)
Humidity:	10%– 80%, non-condensing
Altitude:	maximum 9843 ft. (3,000m)

Transportation Conditions

Temperature:	-13°– 122°F (-25°– 60°C)
Humidity:	5%– 95%, non-condensing
Altitude:	maximum 49213 ft. (15,000m)

Storage Conditions

Temperature:	-4°–113°F (-20°– 45°C)
Humidity:	5%– 95%, non-condensing
Altitude:	maximum 9843 ft. (3,000m)

Reliability Specifications

MTBF: more than 50,000 hours at 90% confidence level

Reliability specification and items: refer to “Specification of reliability test for LCD monitor”

Main Features

High Quality Picture - No Signal Loss and Digital Noise Free

Our Distribution Amplifiers are built to deliver the highest quality image preserving the native resolutions of the video sources without any signal loss. At the same time, the digital noise that may affect the picture quality will be eliminated. Due to the nature of the digital signals passing through multiple stages of connection when using distribution amplifiers, it is important to eliminate the digital noises and boost the signal strength to preserve/enhance the video signal quality.

- Compliant to HDMI v1.3, and DVI v1.0, the next generation standard for A/V connection
- Fully supports one input to two output routing
- Supports HDCP Complaint at all output channels
- Enhanced quality and color of digital signals
- Built in Extended Display Identification Data (EDID) read function, with Electrically Erasable Programmable Read-Only Memory (EEPROM), to save display EDID data while supporting any HDTV with maximum resolutions.
- The unit also supports user set up of non-Video Electronics Standards Association (VESA) resolution, including projectors with unique resolutions.
- Supports HDTV Signal up to 1080p@60Hz with 36-bit color depth, Dolby® True HD, DTS-HD

HDCP (High-bandwidth Digital Content Protection) Compliant

Our HDMI distribution amplifiers are fully HDCP compliant. Many video sources such as DVD players and Satellite/Cable Receivers are HDCP encrypted. For these video sources to be displayed correctly they must be viewed on HDCP compliant devices. (e.g., TV / Projector, HDMI Receiver, Distribution amplifier)

Video Connection

1. Connect your video source's HDMI output port to the DV-HDA-12 's HDMI input port using standard HDMI cables (not included). Make sure your HDMI source and the displays are turned off before connecting the cables.
2. Connect your HDMI display's HDMI input port to HD-102N's HDMI output port. Make sure your HDMI display is turned off before connecting the cables.
3. Plug the 5V power supply into the switch's power input port.
4. Turn on Distributor power.
5. Turn on your displays.
6. Turn on your HDMI source.

***If you do not get the correct picture or sound, Please try EDID set up:**

EDID Set up (Default 1080p@2ch audio)

1. Disconnect all HDMI cable,
2. Connect Monitor or HDTV to “**OUTPUT 1**” back panel of DV-HDA-12 directly
3. Turn on distributor and HDTV power
4. Push the” EDID” button in front of DV-HDA-12 (3 sec) until GREEN LED light is on.
5. Turn off the DV-HDA-12
6. Reconnect all device following the “**Video Connection**” instructions.

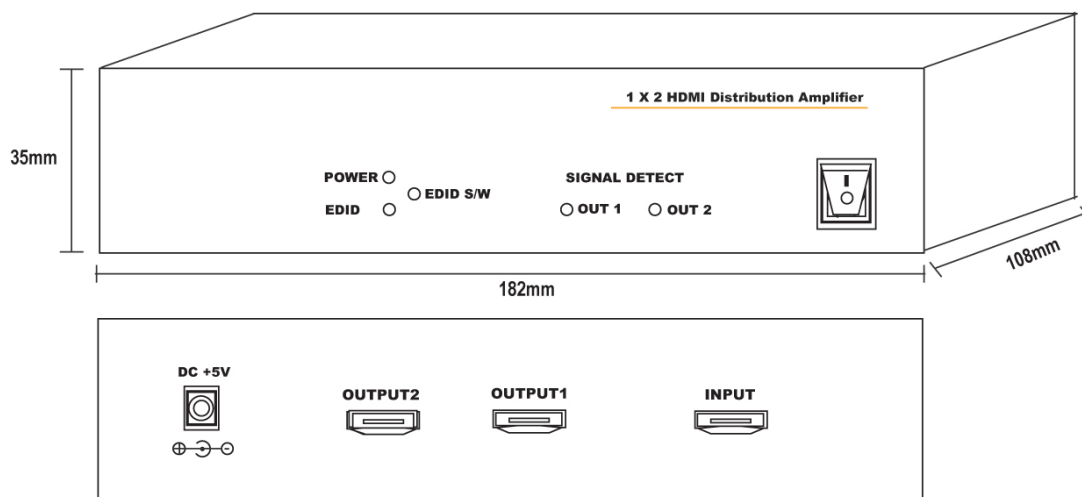
EDID [Extended Display Identification Data]

EDID is defined by a standard published by the Video Electronics Standards Association (VESA). The EDID includes manufacturer name, product type, phosphor or filter type, timings supported by the display, display size, luminance data and (for digital displays only) pixel mapping data.

Mechanical Specification

Dimensions

DV-HDA-12 : 182(W) x 108(D) x 35(H) mm



DC 5V:	DC Power Input (+5 V)
POWER	Power On / Off Switch
ON	Power On / Off Indication LED
INPUT	HDMI Input Signal
OUTPUT 1 / OUTPUT2	HDMI Output Signals (Mirror Video & Sound)
EDID	indicate EDID on/off
EDID S/W:	EDID Setting Switch

Technical Specification

Frequency bandwidth:	2.25 Gbps (Single Link)
Supporting Graphic Resolution:	640x480, 800x600, 1024x576, 1280x720, 1920x1080, 480i/p, 720i/p, 1080i/p, PC up to UXGA (1920x1200).
Inputs:	HDMI Female 1 port
Output:	HDMI Female 2 ports
Power supply:	DC 5V, 2A Adapter included.

HDMI Connector Input/Output Pinout

Part No.	Pin No.	Description	Remarks
HDMI 19 pin	1	TMDS DATA 2P	
	2	TMDS DATA 2 Shield	
	3	TMDS DATA 2M	
	4	TMDS DATA 1P	
	5	TMDS DATA 1 Shield	
	6	TMDS DATA 1M	
	7	TMDS DATA 0P	
	8	TMDS DATA 0 Shield	
	9	TMDS DATA 0M	
	10	TMDS Clock P	
	11	TMDS Clock Shield	
	12	TMDS Clock M	
	13	CEC	
	14	RESERVED	
	15	DDC Clock	
	16	DDC DATA	
	17	GND	
	18	+5v	
	19	Hot Plug Detect	

Limited Warranty

The DV-HDA-12 is warranted against failures due to defective parts or faulty workmanship for a period of three years after delivery to the original owner. During this period, FSR will make any necessary repairs or replace the unit without charge for parts or labor. Shipping charges to the factory or repair station must be prepaid by the owner, return-shipping charges (via UPS Ground) will be paid by FSR.

This warranty applies only to the original owner and is not transferable. In addition, it does not apply to repairs done by other than the FSR factory or Authorized Repair Stations.

This warranty shall be cancelable by FSR at its sole discretion if the unit has been subjected to physical abuse or has been modified in any way without written authorization from FSR. FSR's liability under this warranty is limited to repair or replacement of the defective unit.

FSR will not be responsible for incidental or consequential damages resulting from the use or misuse of its products. Some states do not allow the exclusion of incidental or consequential damages, so the above limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Warranty claims should be accompanied by a copy of the original purchase invoice showing the purchase date (if a Warranty Registration Card was mailed in at the time of purchase, this is not necessary). Before returning any equipment for repair, please read the important information on service below.

SERVICE

Before returning any equipment for repair, please be sure that it is adequately packed and cushioned against damage in shipment, and that it is insured. We suggest that you save the original packaging and use it to ship the product for servicing. Also, please enclose a note giving your name, address, phone number and a description of the problem.

NOTE: all equipment being returned for repair must have a Return authorization (RMA) Number. To get a RMA Number, please call the FSR Service Department (1-800-332-FSR1). Please display your RMA Number prominently on the front of all packages.

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