



**2X10 HDMI Distribution Amplifier (HD-2100)**

*User's Manual*

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## Unpacking

Each Purelink HDMI Distributor package includes the following items;

- HD-2100 HDMI Distribution Amplifier Unit x 1
- 12V Power Supply Adapter x 1
- AC Power Cord x 1
- User manual x 1

## Troubleshooting

Problem	Solution
Distribution Amplifier will not operate	Make sure the 12V power is plugged in the back of the unit. Check to see if the power LED light is on.
No picture(or signal) Or Poor picture	<ol style="list-style-type: none"> <li>1. In case your video source is HDCP enabled, make sure your video display(HDTV) is HDCP compliant.</li> <li>2. If you are using copper based HDMI cable, overall length of the cables (length of the cable from video source to switch and length of the cable from switch to display) should not exceed 20ft. Exceeding 20ft. with copper based cables will result in no or poor picture quality. To extend beyond 20ft, please use fiber optical HDMI extension cables such as Purelink OC series.</li> <li>3. Use high quality HDMI cables.</li> <li>4. If you are using computers, try other refresh rate settings. Most HDTV's have refresh rate of 48Hz and computer's video cards are usually set at higher refresh rate. Try lower refresh rates.</li> <li>5. Make sure all HDMI connectors are tightly secured to all HDMI ports. Loosened screws on the HDMI connectors will result in no or poor picture.</li> <li>6. Turn off all equipments (video source, switch and HDTV) and restart all equipments.</li> </ol>
Incorrectly sized picture /resolution or No picture	Please remember that your video source will only transmit one resolution setting. To connect varying resolution displays (1600x1200 resolution display and 800x600 resolution display) the resolution setting of your video source must be set to the lowest resolution setting (800x600).

## Warranty Information

### 1 (One) Year Warranty

Dtrovision warrants this Purelink HD-2100 HDMI Distribution Amplifiers to be free from defects in workmanship and materials, under normal use and service, for a period of one (1) year from the date of purchase from Purelink or its authorized resellers.

If a product does not work as warranted during the applicable warranty period, Dtrovision shall, at its option and expense, repair the defective product or part, deliver to customer an equivalent product or part to replace the defective item, or refund to customer the purchase price paid for the defective product.

All products that are replaced will become the property of Dtrovision.

Replacement products may be new or reconditioned.

Any replaced or repaired product or part has a ninety (90) day warranty or the remainder of the initial warranty period, whichever is longer.

Dtrovision. shall not be responsible for any software, firmware, information, or memory data of customer contained in, stored on, or integrated with any products returned to Dtrovision for repair under warranty or not.

### Warranty Limitation and Exclusion

Dtrovision shall have no further obligation under the foregoing limited warranty if the product has been damaged due to abuse, misuse, neglect, accident, unusual physical or electrical stress, unauthorized modifications, tampering, alterations, or service other than by Dtrovision or its authorized agents, causes other than from ordinary use or failure to properly use the Product in the application for which said Product is intended.

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## Description , General Specification

Purelink HD-2100 HDMI Distribution Amplifiers, allow two 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	HD-2100
Input Signal	HDMI Single Link , 2port
Output Signal	HDMI Single Link , 10ports,
Resolution	Supports all standard display resolutions up to WUXGA (2048 X 1080 / 1920 X 1200 @ 60Hz), UXGA, SXGA, XGA, VGA & 480i/p, 720i/p, 1080i/p)
Receptacle	DC Power Jack HDMI
HDCP Support	Yes
Power Consumption	DC +12V ,13W Max
Dimension	343(W) x 163(D) x 45(H) mm
Weight	3.8 lbs.

### 1-2 Description , General Specification

## Technical Specification

Frequency bandwidth: 1.65 Gbps (Single Link)

Supporting Graphic Resolution: Supports all standard display resolutions up to WUXGA (2048 X 1080 / 1920 X 1200 @ 60Hz), UXGA, SXGA, XGA, VGA & 480i/p, 720i/p, 1080i/p)

Inputs: HDMI x 2

Output: HDMI x 10

Power supply: DC 12V, 3A Adapter included.

### Connector Pin Assignment

HDMI Input , Output

Part No.	Pin No.	Description	Remarks
HDMI 19pin	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	

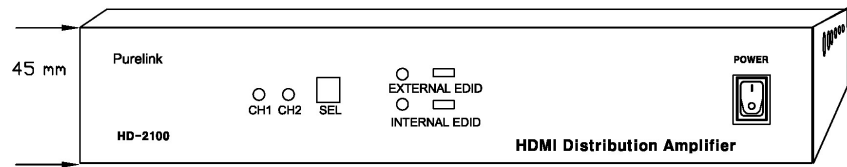
### 1-7 Technical Specification

## Mechanical Specification

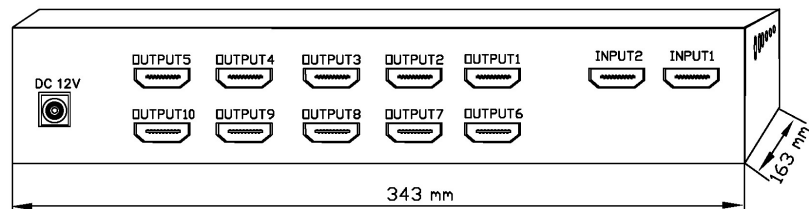
### Dimensions

HD-2100 : 343(W) x 163(D) x 45(H) mm

### MODEL : HD-2100



THE FRONT SIDE



THE BACK SIDE

**DC 12V : DC Power Input (+12 V)**

**POWER : Power On / Off Switch**

**CH1 : Input Channel 1 Indication LED**

**CH2 : Input Channel 2 Indication LED**

**SEL : Input Channel Selecting Switch**

**INPUT1~2 : HDM Input Signal**

**OUTPUT 1 ~ 10 : HDMI Output Signals**

**EXTERNAL EDID : External EDID Setting Switch**

**INTERNAL EDID : Internal EDID Setting Switch**

### 1-6 Mechanical Specification

## Environmental and Reliability Specifications

### 1 Operating Conditions

Temperature : 10°C ~ 40°C

Humidity : 10% ~ 80%, non-condensing

Altitude : maximum 3,000m

### 2 Transportation Conditions

Temperature : -25°C ~ 60°C

Humidity : 5% ~ 95%, non-condensing

Altitude : maximum 15,000m

### 3 Storage Conditions

Temperature : -20°C ~ 45°C

Humidity : 5% ~ 95%, non-condensing

Altitude : maximum 3,000m

### 4 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"

### 1-3 Environmental and Reliability Specifications

## Main Features

### High Quality Picture - No Signal Loss and Digital Noise Free

Our Distribution Amplifiers are built to deliver the highest quality picture preserving the native resolutions of the video sources without any signal loss. At the same time, the digital noises that may affect the picture quality will be eliminated. Due to the nature of the digital signals and 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.

### Signal Amplification for signal reliability and long length signal transmission.

Our 12V power adapter supplies adequate power to amplify the video signals from the video source. This is necessary as the overall length from the video source to the displays is longer when using the distribution amplifiers(distance from the video source to the distribution amplifier + distance from the distribution amplifier to the display). In most cases, the overall distance that the HDMI signal will need to travel is over 10ft. Due to the nature of HDMI signals, amplification is necessary to warrant the video quality and reliability. (Without amplification, there may be occasional blackouts or blinking effects) With this amplification feature, your video display can be extended up to 2300ft using our fiber optical HDMI cables.

### 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, HDCP compliant devices(e.g., TV, HDMI Switch, distribution amplifier) are required.

## Video Connection

1. Connect your video source's HDMI output port to the HD-2100's HDMI input port using standard HDMI cables(not included). Make sure all your HDMI source and the displays are turned off before connecting the cables.
2. Connect your HDMI display's HDMI input port to HD-2100's HDMI output port. Make sure your HDMI display is turned off before connecting the cables.
3. Plug the 12V power supply into the switch's power input port.
4. Plug the 12V wall mount power supply into the wall outlet.
5. Turn on power switch
6. Turn on your displays.
7. Turn on your video source.

### External EDID and Internal EDID Set up

#### I. External EDID Set up

- 1, Unplug all HDMI cables,
- 2, Connect Monitor or HDTV to "**OUTPUT 1**" on the back of the HD-2100
- 3, Turn on the HD-2100 and HDTV
- 4, Press and hold "EXTERNAL EDID" button on the front of the HD-2100 for 3 seconds until RED LED light is on.
- 5, Turn off HD-2100
- 6, Reconnect all device following above "**Video Connection**"

#### II. Internal EDID Set up (Factory Default Setting)

- 1, Unplug all HDMI cables
- 2, Turn on HD-2100
- 3, Press "INTERNAL EDID" button on the front of the HD-2100 for 3 sec until RED LED light is on.
- 4, Turn off HD-2100
- 5, Reconnect all device following above "**Video Connection**"

#### \*\* What is EDID?

Extended Display Identification Data is a VESA standard data format that contains basic information about a display and its capabilities, including vendor information, maximum resolution, color characteristics, factory pre-set timings, frequency range limits, and character strings for the monitor name and serial number