

4K2K HDMI Enhancer

- # 15420



Operation Manual

Introduction

The 4K2K HDMI to HDMI Enhancer is a handy device for your HDMI signal extension. With bandwidth, HDCP analyzing, EDID and YUV420 selections this device allows you with fast and clear viewing on the HDMI signal status. Further, this device allows user to upload EDID for selection which create alternative EDID selection for specific usage. Moreover, with hot keys and LEDs design which allow fast switching on various selection and quick viewing on the status.

Applications

- HDMI signal extension
- Source and display signal status display
- EDID selection
- HDCP verification
- 4K2K YUV444 down sampling to 4K2K YUV420

Features

- HDMI with 4K2K 6G supported, HDCP 2.2/1.4 and DVI compliant
- Supports video source and output display signal analysis up to 6G 4K2K
- Supports HDMI 2.0
- Supports HDCP v1.4 & v2.2 a
- Supports EDID selection from internal, external and user's EDID to be insert
- Supports application control via USB
- Supports LEDs display with fast viewing on current selection status
- Supports USB firmware update
- Supports 6G bandwidth down sampling to 3G

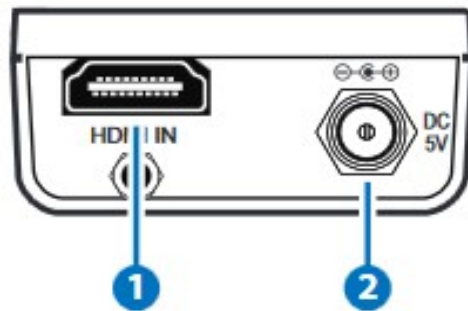
System

Requirements

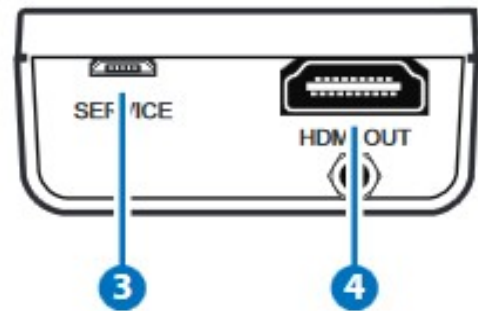
Input HDMI source a signals with output HDMI display and connection cables.

Operation Controls and Functions

Front Panel



Rear Panel



1. HDMI IN:

Connect with HDMI source equipment such as Blue-ray/PS4 player with HDMI cable.

2. DC 5V:

Plug the 5V DC power supply into the unit and connect the adaptor to an AC outlet.

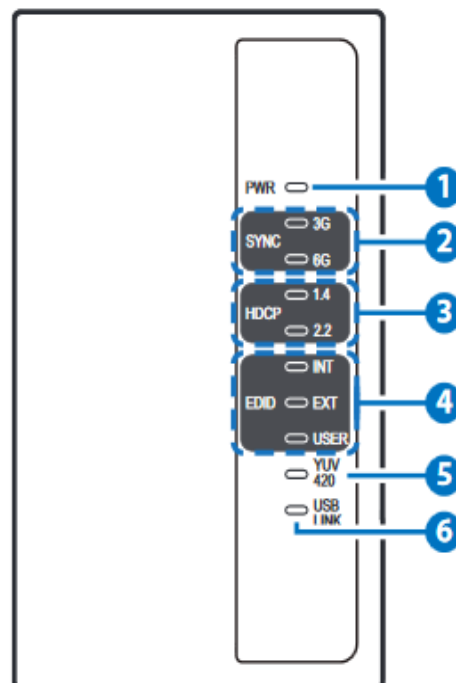
3. SERVICE:

This slot is for firmware update use and customer EDID file upload.

4. HDMI OUT:

Connect with display/amplifier for both video and audio output with HDMI cable.

Top Panel



1. PWR LED:

This LED will illuminate when the device is connected with power supply from the AC outlet.

2. SYNC LEDs:

These LEDs will illuminate according to both HDMI input and output signal's current bandwidth.

3. HDCP LEDs:

These LEDs will illuminate according to both HDMI input and output's HDCP encrypted signal.

4. EDID LEDs:

These LEDs will illuminate according to the selected EDID setting.

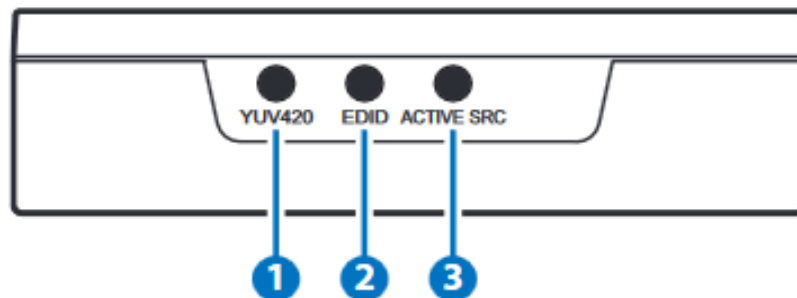
5. YUV420 LED:

This LED will illuminate according to YUV420's selection.

6. USB LINK LED:

This LED will illuminate when the connected USB device is valid for PC control.

Side Panel



1. YUV420:

Press this button to allows HDMI input 6G signal to be subsampling to YUV420 from YUV444.

2. EDID:

Press this button to select EDID of INTernal/EXTernal or USER where internal EDID is 1080p at 2CH, external EDID is depending on the connected HDMI output display and USER is for upload EDID.

3. ACTIVE SRC:

Press this button to force the connected HDMI output display to output image always.

Note: Output display must support CEC in order to perform this function.

Specifications

Video Bandwidth	600 MHz/6 Gbps
Input Ports	1×HDMI
Output Ports	1×HDMI
HDMI Resolutions	VGA~WUXGA (RB), 408i~1080p@24/50/60, 4K@24/25/30, 4K@50/60 (YUV444)
HDMI Cable Distance	10 m@1080p/8-bit, 10 m@1080p/12-bit, 5 m@4K
Power Supply	5 V/2.6A DC (US/EU standards, CE/FCC/UL certified)
ESD Protection	Human body model: ±8 kV (air-gap discharge) ±4 kV (contact discharge)
Dimensions	51 mm (W)×97 mm (D)×22.5 mm
Weight	58 g
Chassis Material	Metal
Color	Black
Operating Temperature	0℃~40℃/32℉~104℉
Storage Temperature	-20℃~60℃/-4℉~140℉
Relative Humidity	20~90% RH (non-condensing)

