Specifications

Environment	HDMI 2.0a
Devices	Ultra HD Blu-Ray, projectors, monitors, TV, PC, laptops.
Transmission	Transparent to the user.
Video Bandwidth	18 Gbps
Frequency Range	25 to 600 MHz
Signals	HDMI 2.0a protocol.
HDCP	Revision 1.4 & 2.2 compliant.
Connectors	HDMI receptacle.
Dip Switch	For setting the EDID to be sent to the source (pins: 2, 3 and 4). (Note: Pin 1 is used to select between normal operation and firmware updates via the USB service port.)
LEDs	Power: Blue Input & Output Link: Green
Resolution	480i to 1080p @ 50/60 FPS 1080p @ 24/50/60 FPS 3840 X 2160 @ 24/25/30/60 FPS
Color	8, 10 & 12 bit
Audio	LPCM 7.1CH, Dolby TrueHD, Dolby Atmos, DTS-HD Master Audio and DTS:X
Cable	HDMI cable of appropriate length for video resolution selected.
Power Supply	One (1) 110-240V/5VDC , 2A power supply
Temperature	Operating: 0° to 40°C Storage: -20° to 60°C Humidity: up to 90% non-condensing
Enclosure	Metal enclosure
Bracket	Included
Dimensions	4.33" x 2.44" x 1.00" (110 mm x 62 mm x 25 mm)
Weight	0.8 lbs (0.36 Kg)
Compliance	Regulatory: FCC, CE, RoHS
Warranty	2 years
Order Information	500425 HDMI 1X2 Splitter, 4K/60 (UPC: 627699004258)

HDMI 1X2 Splitter, 4K/60 (500425)
Quick Installation Guide

Overview

The HDMI 1x2 Splitter (500425) allows one (1) HDMI source to be distributed to up to two (2) HDMI displays. The splitter supports up to 4K (3840 X 2160) video and HD audio. The splitter is HDCP 1.4 & 2.2 compliant, supports EDID management and features LED diagnostics. Each output supports an independent down-scaler from 4K to 1080p, depending on the connected display. Additionally, all connectors are on the rear panel for neater cabling. Applications include; commercial and residential AV systems, classroom projector systems, digital signage, boardroom systems, collaborative PC systems, medical information systems.

Pre-Installation Check

Identify the connectors as indicated on the product diagram above. LEDs are located on the front and the connectors and mode switch on the rear.
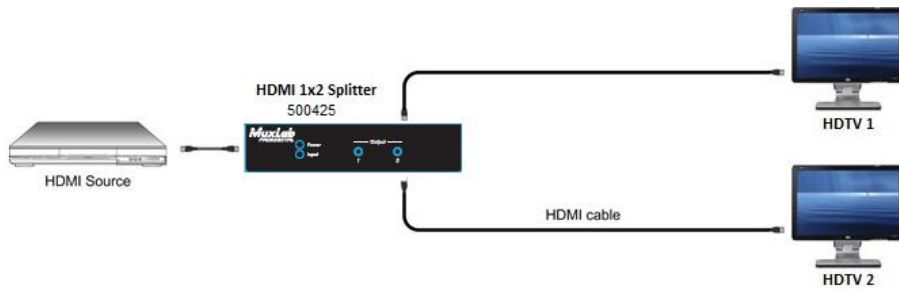
Installation

In order to install the HDMI 1X2 Splitter, please follow the steps below:

1. Connect the HDMI video source to the input HDMI connector of the splitter with an appropriate HDMI cable.

2. Connect the HDMI display equipment to the output HDMI connectors of the splitter with appropriate HDMI cables.

3. Use the Dip switch to select the EDID that will be sent to the HDMI source device as indicated on the Dip switch table.

4. Connect the 5 VDC power supply to the splitter first, and then plug the power supply into an AC power outlet.

5. Power on the HDMI equipment and verify the image quality.

6. The following diagram shows the final configuration.

Mode Switch Selection

Use the Dip switch to select the EDID that will be sent to the HDMI source device.

Dip 2	Dip 3	Dip 4	Function
Off	Off	Off	EDID Ultra-HD (3840X2160@60Hz) – 7.1 Audio
On	Off	Off	EDID Ultra-HD (3840X2160@60Hz) – 2.0 Audio
Off	On	Off	EDID Ultra-HD (3840X2160@30Hz) – 7.1 Audio
On	On	Off	EDID Ultra-HD (3840x2160@30Hz) – 2.0 Audio
Off	Off	On	EDID Full-HD (1080p, 3D, 12bit) – 7.1 Audio
On	Off	On	EDID Full-HD (1080p, 8bit) – 2.0 Audio
Off	On	On	EDID 1080i – 7.1 Audio
On	On	On	Learn EDID of the device connected to Output 1 and send it intact to the input port

Note: Dip 1 should be left in the default "Off" position for normal operation.

Firmware Updates: Dip 1 should be set to "On" only when performing firmware updates. In this case save the included update files from the MuxLab website (firmware "Bin" file & installer software) in the same folder of a PC connected to the 500425 USB service port. Steps: Turn Dip 1 to "On", connect the PC to the 500425 USB service port, power on the 500425, and run the installer software. The update is performed automatically. Once the update is completed, return Dip 1 to "Off" for normal operation.

Troubleshooting

The following table describes some of the symptoms, probable causes and possible solutions in regard to the installation of the HDMI 1X2 Splitter.

Picture/ Sound	Probable Cause	Possible Solution
No Image	Wiring	Check continuity Check correct wiring
No Image	Synchronization	Power off the source and displays, then power them back on.
Flickering Image	Synchronization	Check HDMI cable length against industry standards.
Choppy Sound	Synchronization	Check HDMI cable length against industry standards.
Noise in image	Weak signal	Check HDMI cable length against industry standards.
Green or pink hue	HDMI cables	Check HDMI cables and replace as needed.

If you still cannot diagnose the problem, please call MuxLab Customer Technical Support at 877-689-5228 (toll-free in North America) or (+1) 514-905-0588 (International).