ACEPRO AV

1x4 HDMI 2.0 HDR Distribution Amplifier with EDID Management - 4Kx2K 60Hz

User Reference Guide

Introduction

The *1x2 HDMI 2.0 HDR Distribution Amplifier with EDID Management - 4Kx2K 60Hz* broadcasts *HDMI A/V signals* from one HDMI source to four displays simultaneously, an advanced HDMI splitter solution.

Key Features and Benefits

- Supports HDR, HDMI 2.0, HDCP 2.2, 4Kx2K@60Hz (4:4:4) and 7.1 ch surround sound audio

- Auto video scaling feature detects and configures the video resolution automatically according to the capabilities of each connected monitor

    Note: When the input source is 4Kx2K @60Hz, it will only output at 1080p @60Hz for 4Kx2K @30Hz monitors

- High quality materials with metal housing extend the stability and durability, allowing for long hours of operation

- Built-in EDID management and firmware update mechanism further expands compatibility

- Individual LED indicators for power and signal allow for easy and quick recognition

Specifications

Video Bandwidth	up to 18Gbps (single-line 600MHz)
Video Support	480p/720p/1080i/1080p/ HDR 4K2K@60Hz (4:2:0 10bits) / 4K2K@60Hz (4:4:4 8bits)
Audio Support	DTS-HD Master Audio, Dolby TrueHD Dolby Digital, DTS, DVD-Audio, LPCM, SACD, MPCM
Connectors	1x 19-Pin, HDMI, Type A, Female, Input 4x 19-pin, HDMI, Type A, Female, Output
Housing Material	Metal
Power Adapter	Input: AC 100-240V / 50~60Hz Output: DC 5V / 2A
Dimensions	5.91" (W) x 0.94" (H) x 2.68" (D)
Weight	0.51lbs
Operating Temperature	32 to 104 degrees F
Storage Temperature	-4 to 140 degrees F
Relative Humidity	20% to 90% RH (non-condensing)

Package Contents

- *1x4 HDMI 2.0 HDR Distribution Amplifier with EDID Management - 4Kx2K 60Hz*
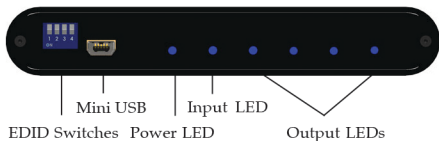- Power adapter
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Layout

Figure 1: Front side

- **EDID Switches**: Refer to the table to configure EDID on Page 5
- **Mini USB**: For future firmware update
- **Power LED**: On when the unit is powered
- **Input LED**: On when input signal is detected
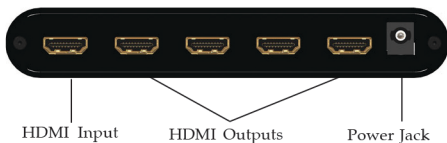- **Output LEDs**: On when output signals are detected

Figure 2: Rear side

- **HDMI Input**: Connects to HDMI source device by HDMI cable (cable not included)
- **HDMI Outputs**: Connects to your HDMI displays by HDMI cables (cables not included)
- **Power Jack:** Connects to the included power adapter

EDID Setting

There are 8 settings.
- "1": The button on the upper position
- "0": The button on the lower position

Switch Position	Description
Pin 1	
1	Working Mode
0	Firmware Update Mode (*Note*: In this setting, the unit won't work since it's for firmware updates)

Switch Position			Description
Pin 2	Pin 3	Pin 4	
1	1	1	Ultra HD(4K2K@60Hz) - 8/10/12bit 3D HDR video & 7.1ch audio
0	1	1	Ultra HD(4K2K@60Hz) - 8/10/12bit 3D HDR video & 2ch audio
1	0	1	Ultra HD(4K2K@30Hz)(4K2K@60Hz 4:2:0) - 8bit 3D HDR video & 7.1ch audio
0	0	1	Ultra HD(4K2K@30Hz)(4K2K@60Hz 4:2:0) - 8bit 3D HDR video & 2ch audio
1	1	0	Full-HD(1080p@60Hz) - 12bit 3D video & 7.1ch audio
0	1	0	Full HD(1080p@60Hz) - 8bit 2D video & 2ch audio
1	0	0	Learning EDID from output 1
0	0	0	Auto EDID analysis learning mode*

*Auto EDID analysis learning mode will detect all the connected HDMI monitors and analyze their EDID. The monitor with highest capabilities will be the reference EDID for all HDMI outputs.

Application

Transmits HDMI signals from one HDMI source to up to four displays simultaneously.

Figure 3

Auto video scaling feature detects and configures the video resolution automatically according to the capabilities of each connected monitors.
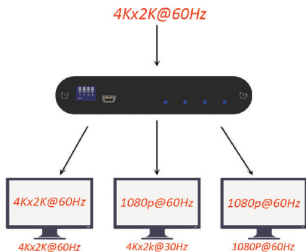

Figure 4

Note: When the input source is 4Kx2K @60Hz, the splitter will only output at 1080p @60Hz for 4Kx2K @30Hz monitors. *720p and 480p monitors not supported