MAGEWELL

Pro Convert HDMI Plus Technical Specifications

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Supported Web Browser (tested)

- Microsoft Internet Explorer 11
- Microsoft Edge
- Mozilla Firefox version 61 and above
- Google Chrome version 49 and above
- Apple Safari 11.1 and above
- Opera 55.0.2994.44 and above

Supported Software (tested)

- OBS
- XSplit
- vMix
- VidBlasterX
- Wirecast
- streamstar SW
- mimoLive
- Any other NewTek NDI-enabled encoding or streaming software

Input Interfaces

- HDMI
 - DVI-D 1.0
 - HDMI 1.4

Loop-through Interface

- HDMI
 - o DVI-D 1.0
 - HDMI 1.4

Storage Interface

• SD Card (functions to be developed)

PTZ + TALLY Control

• Mini-DIN-8 jack

Screw Mounting Hole

• ½-20 mounting hole

Network Interfaces

• 10/100/1000Mbps Ethernet

USB Interface

- USB2.0 Type B
- 5V/2.1A power supply
- USB RNDIS/ECM

Input feature

• Support for input video resolutions up to 4096x2160

HDMI Specific Features

- 297MHz HDMI receiver
- Adaptive HDMI equalizer
- Support for customized EDID
- Support for extraction of AVI/Audio InfoFrames
- Full colorimetry support
- Support for up to 4096x2160 4:4:4/4:2:2 30fps or 4096x2160 4:2:0 60fps input signals
- Support for 8 channel IEC60958 audio streams
- · Support for extraction of audio formation information & channel status data
- Support for extraction of video timing information
- Support for extraction of 3D format information
- Support for Side-by-Side Half, Top-and-Bottom, Frame Packing 3D mode.

NDI[®] Output Format

- Support for 4:2:2 8-bit output
- Support for up to 2048x2160 120fps
- Support for NDI 4.1

Video Processing Features

- Video processing pipelines with 160 Mpixels/s
- · Video brightness, contrast, saturation, hue adjustment
- Video de-interlacing
 - Top field only
 - Bottom field only
- Video aspect ratio conversion
 - Auto or manual selection of output aspect ratio
- Video color format conversion
 - Auto or manual selection of input color format & quantization range
 - Auto or manual selection of output color format, quantization range & saturation range
 - Support for RGB, YUV BT.601, YUV BT.709, YUV BT.2020 input color formats
 - Support for YUV BT.601, YUV BT.709, YUV BT.2020 output color formats
 - Support for Limited or Full quantization range
 - Support for Limited, Full & 'Extended gamut' saturation range
- · Video frame rate conversion
- Video mirror flip

NDI[®] Source Name

- Support for setting the device name shown in the system using Web UI. By default, the device name is 'Pro Convert'.
- Support for setting the source name shown in the system using Web UI. By default, the source name is 'board-index + serial number'.
- Support for setting board-index, from 0 to F, through on-board rotary switch

Firmware Upgrade

• Support for manual update using Web UI

LED Indicator

- Status LEDs indicate:
 - the state of power supply: on/off
 - Tally: preview/program
 - the state of input signal: locked/unlocked
 - the state of loopthrough signal: loopthrough connected and signal detected/undetected

Form Factor

• 117.5mm (L) x 66.7mm (W) x 23.4mm (H)

Accessories

- USB 2.0 A to B Cable
- 5V/2.1A power adaptor
- Mini-DIN-8 (PTZ + TALLY) to RS232 (PTZ) + Mini-DIN-8 (TALLY)
- L-bracket
- LED matrix panel (optional)

Power Consumption

- 5V max current: ~1.5A
- Max power consumption: ~8W

Working Environment

- Operating temperature: 0 to 45 deg C
- Storage temperature: -20 to 70 deg C
- Relative Humidity: 5% to 90% non-condensing