MAGEWELL

Pro Convert HDMI TX 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 Interface

- HDMI
  - DVI-D 1.0
  - HDMI 1.4

Storage Interface

- SD Card (functions to be developed)

PTZ + TALLY Control

- Mini-DIN–8 jack

Mounting Hole

- ¼–20 mounting hole

Network Interface

- 10/100/1000Mbps Ethernet
- IEEE 802.3af PoE

USB Interface

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

- USB RNDIS/ECM

Input feature

- Support input video resolutions at up to 2048x1200

HDMI Specific Features

- 165MHz HDMI receiver
- Adaptive HDMI equalizer support for cables lengths up to 30M
- Support for customized EDID
- Support for extraction of AVI/Audio InfoFrames
- Full colorimetry support
- Support up to 2048x1200 4:4:4/4:2:2 60fps input signals
- Support 8 input and 2 output 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 2048x1200 60fps
- Support for NDI 3.x

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:
  - Power supply indicator: on/off
  - Input signal indicator: locked/unlocked

Form Factor

- 100.9smm (L) x 60.2mm (W) x 23.3mm (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)
- Tally lights
- L-bracket
- LED matrix panel (optional)

Power Consumption

- 5V max current: ~1.5A
- Max power consumption: ~6W

Working Environment

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