

MAGEWELL

Pro Convert for NDI[®] to HDMI 4K 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

Output Interfaces

- HDMI
 - HDMI 1.4
 - HDMI 2.0

Storage Interface

- SD Card (functions to be developed)

Screw Mounting Hole

- ¼-20 mounting hole

Network Interfaces

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

USB Interface

- USB2.0 Type B
 - 5V/2.1A power supply
 - USB RNDIS/ECM
- USB3.0 Type A
 - Support for connecting peripherals (keyboard and/or mouse) to customize the video and audio settings

Control Buttons

- MENU: press to display the menu or select current parameter, or toggle the switch left and right to cycle through the options

HDMI Output Features

- Support for up to 4:4:4 8-bit 4096x2160 60fps output HDMI resolutions
- Support for 96KHz 16bits 8-channel audio streams

- Support for delivering videos at the preferred video format according to the EDID of the connected monitor

Stream Decoding Features

- Support for decoding full NDI® and NDI HX in NDI 4.x
- Support for decoding streams of NDI, RTSP, HTTP, HLS, RTMP Pull/Push and MPEG-TS over UDP/SRT/RTP
- Support for decoding videos in H.264 and H.265 format
- Support for decoding AAC/MP3 audios
- Support for decoding up to 4K 60fps signal
- Support for modifying configurations using the Web UI or the Options menu
- Setting Video OSD composition, including
 - Source name & resolution
 - Tally indicators
 - Audio meter
 - Audio meter scale
 - Center cross
 - Safe area
- Video scaling, frame rate and aspect ratio conversion
- Video color format conversion
 - Auto or manual selection of input color format
 - Support for YUV BT.601, YUV BT.709 color formats
- Video vertical and mirror flip
- Remote controlling the PTZ device connected to the video source
- Setting audio gain, sample rate and channels
- Support for decoding sources in different network segment but can be able to pinged
- Support for decoding alpha channel, options are
 - Alpha only
 - Alpha blend with white
 - Alpha blend with black
 - Alpha blend with checkboard

Device 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 board-index, from 0 to F, through the on-board rotary switch

Firmware Upgrade

- Support for manual update using Web UI

LED Indicator

- Power LED status indicator
 - On: power connected
 - Off: power unconnected
- Decode LED status indicator
 - On: decoding in progress
 - Blinks: decoding error
 - Off: source unselected

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
- L-bracket

Power Consumption

- 5V max current: ~1.6A

- Max power consumption: ~7.2W

Working Environment

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