

# MAGEWELL

## Pro Convert SDI 4K Plus Technical Specifications

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### Supported Web Browser

- 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

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

### Input Interfaces

- BNC
  - SD/HD/3G/6G SDI

### Loop-through Interface

- BNC
  - SD/HD/3G/6G SDI

### Storage Interface

- SD Card (functions to be developed)

### PTZ + TALLY Control

- Mini-DIN-8 jack

### 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

## Input feature

- Support for up to 4096x2160 30fps input resolution

## SDI Specific Features

- Integrated cable equalizer extending the cable length as follows:
  - up to 180m for SD-SDI signals
  - up to 180m for HD-SDI signals
  - up to 150m for 3G-SDI signals
  - up to 100m for 6G-SDI signals
- Support for SD/HD/3Ga/3Gb/3Gb-DL/3Gb-DS/6G (SMPTE 2081) standards
- Support for 2K (2048x1080) & 4K (4096x2160) mode
- Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling
- Support for 10/12-bit color depth
- Support for extraction of SMPTE 352 payload identifier
- Support for up to 16 (mono) audio channels
- Support for extraction of audio formation information & channel status data
- Limited support of 3Gb-DS: only the first stream can be captured
- Limited support for capture of the first link of dual link interfaces:
  - YCbCr 4:2:2 10-bit 1080p 50/59.94/60: captured as 1080i 50/59.94/60
  - YCbCr 4:4:4 10-bit: captured as 4:2:2
  - RGB 4:4:4: R/B sub-sampled

## NDI<sup>®</sup> Output Format

- Support for 4:2:2 8-bit output
- Support for up to 4096x2160 60fps output resolution
- Support for NDI 4.1

## Video Processing Features

- Support for capture resolutions up to 4096x2160
- 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<sup>®</sup> 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 the on-board rotary switch

## Firmware Upgrade

- Support for manual update using Web UI

## **LED Indicator**

- Status LEDs indicate the working state of the device:
  - Power supply: on/off
  - Tally: preview/program
  - Input signal: locked/unlocked
  - Loophrough signal: loophrough 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: ~7W

## **Working Environment**

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