MAGEWELL

Pro Convert 12G SDI Plus Technical Specifications

Specifications are based on current hardware, firmware and software revisions, and are subject to change without notice.

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SDI Input

- Max Video input: 4096x2160 60fps. Supported resolutions include:
  - 4096x2160p, 3840x2160p, 2048x1080p, 2048x1080i, 1920x1080p, 1920x1080i all at 23.98/24/25/29.97/30/47.95/48/50/59.94/60fps
  - 1280x720p at 50/59.94/60fps
  - 720x576 at 25p/50i (PAL SD)
  - 720x480 at 29.97p/59.94i (NTSC SD)
- Support for RGB/RGBA/YUV/YUVA signals with 10/12-bit color depth
- Support for RGB 4:4:4, YCbCr 4:4:4, YCbCr 4:2:2 color sampling
- Max Audio inputs: 16 embedded channels

NDI$^®$ Output

- Max output: 4096x2160 60fps 4:2:2 8-bit
- Output frame rate same as the original, 1/2, 1/3 or 1/4 input frame rate
- Output resolution at the resolution of input, typical formats or any custom resolution. Typical output:
  - 4096x2160p, 3840x2160p, 2048x1080p, 2048x1080i, 1920x1080p, 1920x1080i all at 23.98/24/25/29.97/30/47.95/48/50/59.94/60fps
- NDI$^®$ 4.1

SDI Processing Features

- SD/HD/3G/6G/12G SDI input/loop-through interface
- SD (ST 259)/HD (ST 292)/3Ga (ST 425)/3Gb (ST 425)/3Gb-DL (ST 425)/3Gb-DS (ST 425)/6G (ST 2081)/12G (ST 2082) SDI standards
- Receive SDI transmitted up to the following distances:

Signal	Distance	
HD-SDI	280m	919ft
3G-SDI	180m	591ft
6G-SDI	80m	262ft
12G-SDI	30m	98ft

Web GUI Management

- Provide comprehensive information regarding the device and input signals in real-time
- Allow to configure how an input is processed and encoded, including deinterlacing, up/down scaling, audio channel mapping, as well as the network connection.
- Support USB RNDIS/ECM
- Support IE/Edge/Firefox/Chrome/Safari web browser
- Support with HTTP APIs

PTZ & Tally Control

- Control PTZ cameras that use VISCA UDP, VISCA, PELCO-D or PELCO-P protocols
- Program and preview tally
- A Mini-DIN 8 breakout cable is provided for PTZ control and tally connection

Network Interfaces

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

USB Interface

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

Supported Products

- NDI Studio Monitor
- OBS
- vMix
- Any other NDI-enabled product

LED Indicators

- Status LEDs indicate the working state of the device
    - Power supply: on/off
    - Tally: preview/program
    - Input port: input signal locked/unlocked
    - Output port: loopthrough signal on/off

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
- Mini-DIN 8 breakout cable
- Tally light

Screw Mounting Hole

- ¼–20 mounting hole

Power Consumption

- 5V max current: TBD
- Max power consumption: TBD

Working Environment

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