

Blackmagic Design BMD-CONVN8TRM/AA/SDIDP 8K HDR Teranex Mini SDI to DisplayPort

Connections

SDI Video Inputs

- 4 x 12G-SDI HD/2K/4K/8K auto switching.
- Dual and quad link 12G-SDI for 8K only.

SDI Video Outputs

- 4 x 12G-SDI loop output.

DisplayPort Video Outputs

- 2 x full size DisplayPort connectors
- Single used for 4K video and both used for uncompressed 8K video.
- 1 x USB-C DisplayPort connector
- Compatible with certified passive DisplayPort over USB-C cables. Active generic USB-C cables or active Thunderbolt cables are not compatible.

Analog Audio Outputs

- 2 channels analog audio via RCA connectors.

Embedded Audio Support

- 16 channels of embedded audio on all SDI loop outputs and 8 channels on the DisplayPort outputs.

Multi Rate Support

- 1.5G, 3G, 6G, 12G, 2SI Dual Link 12G-SDI, 2SI Quad Link 12G-SDI, Square Division Quad Link 12G-SDI.

Updates and Configuration

- Front USB-C or Ethernet.

Reclocking

- Yes

Standards

SD Video Standards

- None

HD Video Standards

- 720p50, 720p59.94, 720p60
- 1080i50, 1080i59.94, 1080i60
- 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95, 1080p48, 1080p50, 1080p59.94, 1080p60
- 1080PsF23.98, 1080PsF24, 1080PsF25, 1080PsF29.97, 1080PsF30

2K Video Standards

- 2Kp23.98 DCI, 2Kp24 DCI, 2Kp25 DCI, 2Kp29.97 DCI, 2Kp30 DCI, 2Kp47.95 DCI, 2Kp48 DCI, 2Kp50 DCI, 2Kp59.94 DCI, 2Kp60 DCI
2KPsF23.98 DCI, 2KPsF24 DCI, 2KPsF25 DCI, 2KPsF29.97 DCI, 2KPsF30 DCI

Ultra HD Video Standards

- 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p47.95, 2160p48, 2160p50, 2160p59.94, 2160p60

4K DCI Video Standards

- 4Kp23.98 DCI, 4Kp24 DCI, 4Kp25 DCI, 4Kp29.97 DCI, 4Kp30 DCI, 4Kp47.95 DCI, 4Kp48 DCI, 4Kp50 DCI, 4Kp59.94 DCI, 4Kp60 DCI

8K Video Standards

- 4320p23.98, 4320p24, 4320p25, 4320p29.97, 4320p30, 4320p47.95, 4320p48, 4320p50, 4320p59.94, 4320p60 Auto switching between 2SI and Square Division

8K DCI Video Standards

- 8Kp23.98 DCI, 8Kp24 DCI, 8Kp25 DCI, 8Kp29.97 DCI, 8Kp30 DCI, 8Kp47.95 DCI, 8Kp48 DCI, 8Kp50 DCI, 8Kp59.94 DCI, 8Kp60 DCI
Auto switching between 2SI and Square Division

SDI Compliance

- SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE 424M, SMPTE 425M Level A and B, SMPTE 2081-1, SMPTE 2081-10, SMPTE 2082-1 and SMPTE 2082-10

SDI Video Rates

- SDI video connections are switchable between 1.5G SDI, high definition level A and level B 3G-SDI, 6G-SDI and 12G-SDI

SDI Video Sampling

- 4:2:2 and 4:4:4

SDI Audio Sampling

- Television standard sample rate of 48 kHz and 24-bit.

SDI Color Precision

- 4:2:2 and 4:4:4

SDI Color Space

- YUV and RGB.

DisplayPort Output Standards

SD Video Standards

- None

HD Video Standards

- 720p50, 720p59.94, 720p60
- 1080i50, 1080i59.94, 1080i60
- 1080p23.98, 1080p24, 1080p25, 1080p29.97, 1080p30, 1080p47.95, 1080p48, 1080p50, 1080p59.94, 1080p60

Ultra HD Video Standards

- 2160p23.98, 2160p24, 2160p25, 2160p29.97, 2160p30, 2160p47.95, 2160p48, 2160p50, 2160p59.94, 2160p60

5K and 6K Display Standards

- Based on the EDID of the DisplayPort Monitor.

8K Video Standards

- 4320p23.98, 4320p24, 4320p25, 4320p29.97, 4320p30, 4320p47.95, 4320p48, 4320p50, 4320p59.94, 4320p60

DisplayPort Color Space

- REC 709, REC 2020

DisplayPort Color Precision

- YUV 4:2:2 and RGB 4:4:4 in HD, 2K, 4K and 8K. 33 point LUTs can be loaded via Teranex Utility or calibration LUT generated from calibration probe test.

Scopes

- Waveform, RGB/YUV Parade, Vector, Histogram

Viewing Modes

- Two by scopes with picture overlay with opacity control. Waveform and Parade with standard and HDR graticules.

HDR

Conversion

- Output can be set to SDR, HLG or PQ

Software

Software Control

- Mac OS X™ and Windows™ software upgrade via USB-C or Ethernet.

Internal Software Upgrade

- Via included updater application.

Operating Systems

- Mac 10.14 Mojave,
- Mac 10.15 Catalina or later.
- Windows 10, 64-bit.

Settings Control

- 6 buttons and spin knob for menu and settings control, 2.2 inch color LCD display.

Power Requirements

Power Supply

- 1 x built in international AC power supply with IEC C14 inlet. IEC Power cable required. 100 - 240V AC Input.

Power Consumption

- 35 Watts

Operational Voltage Range

- 100 - 240V AC

Environmental Specifications

Operating Temperature

- 0° to 40°C (32° to 104°F)

Storage Temperature

- -20° to 60°C (-4° to 140°F)

Relative Humidity

- 0% to 90% non-condensing