

Teranex Mini SDI to DisplayPort 8K HDR



Advanced 8K DisplayPort monitoring solution for converting SDI sources to DisplayPort in all HD, Ultra HD and 8K formats up to 4320p60. Includes 2 full size DisplayPort and 1 USB-C DisplayPort output connections, built in down converter, HDR formats, 33 point 10-bit RGB LUTs, built in waveform, parade, vector and histogram scopes, monitor calibration for compatible monitors, and more.

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

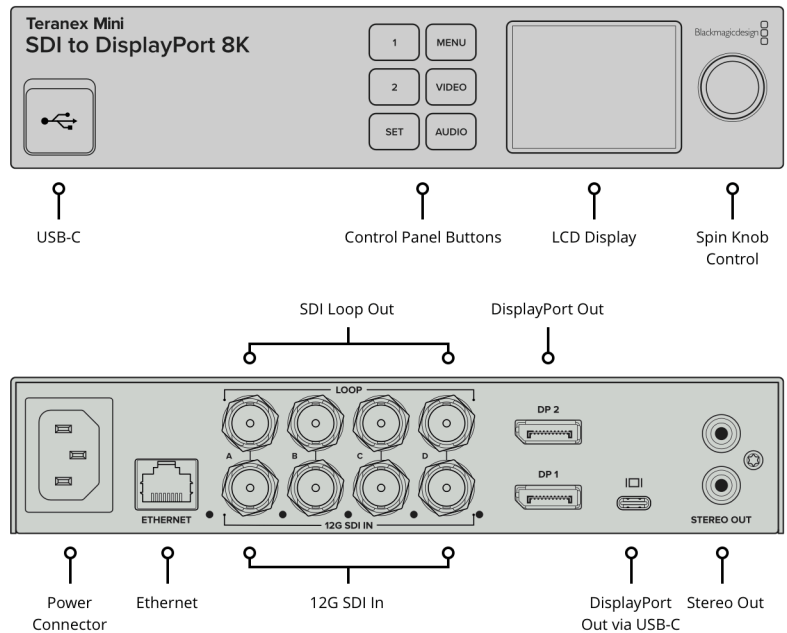
1.5G, 3G, 6G, 12G, 2SI Dual Link 12G-SDI, 2SI Quad Link 12G-SDI, Square Division Quad Link 12G-SDI.

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

Scopes

Waveform, RGB/YUV Parade, Vector,
Histogram

Viewing Modes

Two by two 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

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

Physical Specifications



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
