

## Teranex Express



Teranex Express is the world's first real time SD, HD and Ultra HD broadcast standards converter! Featuring advanced patented algorithms, Teranex Express gives you the visually transparent, high-quality conversions that are mandated by major broadcasters and studios worldwide! You get an incredible 1089 SD, HD and Ultra HD up, down and standards conversions in full 10-bit quality! You also get amazing processing with high quality de-interlacing, noise reduction, automatic cadence detection, removal and correction even with edited content, adjustable scaling and aspect ratio conversion, all with full timecode and multi-channel audio conversion.

**\$1,395**

### Connections

#### SDI Video Inputs

1x BNC (IN A) – 10-bit SD, HD, 2K, 3G HD levels A and B, 6G and 12G Ultra HD auto switching.

1x BNC (IN B) – 10-bit SD, HD, 2K, 3G HD and 6G Ultra HD auto switching. Usable as dual link input for 4:2:2 3G or 6G UHD.

#### SDI Video Input Loops

1x BNC (IN A Loop) – Reclocked, 10-bit SD, HD, 2K, 3G HD, 6G and 12G Ultra HD auto switching.

1x BNC (IN B Loop) – Reclocked, 10-bit SD, HD, 2K, 3 Gb/s HD, 6G Ultra HD auto switching.

#### SDI Video Outputs

1x BNC (OUT A) – 10-bit SD, HD, 2K, 3G HD levels A and B, 6G and 12G Ultra HD auto switching.

1x BNC (OUT B) – 10-bit SD, HD, 2K, 3G HD levels A and B and 6G Ultra HD auto switching. Usable as dual link output for 4:2:2 3G or 6G Ultra HD.

#### Quad SDI Video Outputs

SMPTE 435-1 - Quad HD Split (square division method) only. Utilizes SDI Out A for quadrant A, SDI Out B for quadrant B; reconfigures SDI In A Loop for quadrant C, SDI In B Loop for quadrant D.

#### Optical Fiber Video Inputs

1x 10bit SD, HD, 3G HD, 2K, Ultra HD auto switching.

#### Optical Fiber Video Outputs

1x 10bit SD, HD, 3G HD, 2K, Ultra HD auto switching. Not available while operating in Dual Link or Quad Link output modes.

#### SDI Audio Inputs

16 channels in SD, HD, 3G HD, 2K and Ultra HD.

#### SDI Audio Outputs

16 channels in SD, HD, 3G HD, 2K and Ultra HD.

#### Optical Fiber Connection (optional)

1x SMPTE optical fiber SFP socket.

#### Optical Fiber Audio Inputs

16 channels in SD, HD, 3G HD, 2K and Ultra HD.

#### Optical Fiber Audio Outputs

16 channels in SD, HD, 3G HD, 2K and Ultra HD.

#### Dolby® Support Built In

Dolby® AC-3 pass through in all conversions. Dolby® E pass through except during video frame rate conversions.

#### Timecode Inputs

Support for VITC/ATC. No support for LTC.

#### Timecode Outputs

Support for VITC/ATC. No support for LTC.

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### Multi Rate Support

SDI connections are switchable between standard definition, high definition and UltraHD. SDI switches between 270 Mb/s standard definition SDI, 1.5 Gb/s HD-SDI and 2K SDI, 3G HD, 6G and 12G Ultra HD.

### Reference Input

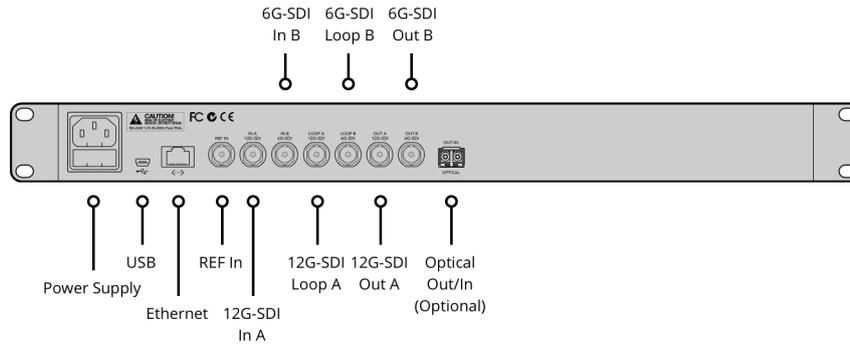
1x BNC - Black Burst or Tri-level sync.

### Computer Interface

1x USB 2.0 mini B port for software updates.  
1x RJ45 10/100 Ethernet for remote control and configuration.

### Processor Interface

Illuminated pushbuttons, status LEDs and LCD with easy to use onscreen menus.



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## Standards

### SD Video Standards

525i59.94 NTSC, 625i50 PAL

### 1.5G-SDI HD Video Standards

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

### 3G-SDI HD Video Standards

1080p50, 1080p59.94, 1080p60 levels  
A and B

### 2K Video Standards

2K DCI 23.98p, 2K DCI 24p

2K DCI 23.98PsF, 2K DCI 24PsF

### Ultra HD Video Standards

2160p23.98, 2160p24, 2160p25,  
2160p29.97, 2160p30, 2160p50,  
2160p59.94, 2160p60

### SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE  
296M, SMPTE 372M, SMPTE 425M

### SDI Metadata Support

VITC/ATC support, SMPTE 12M. Video  
indexing support including WSS,  
RP186 and AFD, SMPTE 2016. Closed  
captioning support for conversions to  
and from 608 and 708, SMPTE 334M.

### Audio Sampling

Television standard sample rate of  
48kHz and 24-bit

### Video Sampling

4:2:2 SDI

### Color Precision

10-bit

### Color Space

REC 601, REC 709

### SDI Video Standards

525 NTSC, 625 PAL, 720HD, 1080HD,  
2K 2048 x 1080 and Ultra HD 3840 x  
2160 auto switching.



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### Real Time Video Processing

Includes noise reduction, cadence detection with insertion/removal, scene cut detection, color correction and proc amp control

### Format Conversion

Real time up conversion, down conversion , cross conversion and SD/HD/UHD standards conversion.

### Test Patterns

SMPTE 75% Bars; full field color bars 75%; convergence grid; multiburst ; black.

### Colorspace Conversion

Hardware based real time

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## Software

### Software Control

Teranex Setup software control application included free of charge for changing settings via Windows 8.1, Windows 10 and Mac.

### Internal Software Upgrade

Via USB Type-B 2.0 using the included Teranex Setup application

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## Operating Systems



Mac 10.15 Catalina,  
Mac 11.1 Big Sur or later.



Windows 10, 64-bit.

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## Physical Specifications



## Physical Installation

1 rack unit size. Less than 5 inches deep.

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## Power Requirements

### Power Supply

1 x built-in international AC power supply with IEC C14 inlet. IEC power cable required. 100-240V, 50-60Hz

### Typical Power Consumption

42 watts

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## Environmental Specifications

### Operating Temperature

0° to 40° C (32° to 104° F)

### Storage Temperature

-20° to 45° C (-4° to 113° F)

### Relative Humidity

0% to 90% non-condensing

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## What's Included

Teranex Express

Welcome wallet with QR code for software download

2x Bumper guards with 4x M4 screws

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## Warranty

12 Month Limited Manufacturer's Warranty

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