

Teranex 2D Processor

Technical Specifications

Description

Perfect for regular conversions as well as capture and playback. Get SD/HD and 3 Gb/s SDI, HDMI and analog in and out, 8 channel AES/EBU, 4 channel balanced analog input and output as well as consumer HiFi audio input connections. Thunderbolt port for computer capture and playback, RS-422 deck control, reference input, and ethernet are included for remote configuration. Get amazing processing with high quality de-interlacing, up conversion, down conversion, SD and HD cross/standards conversion, automatic cadence detection, removal and correction even with edited content, noise reduction, adjustable scaling and aspect ratio conversion, all with full timecode and multi-channel audio conversion.

Connections

SDI Video Input

1x 10-bit SD, HD, 3Gb/s HD and 2K switchable.

SDI Video Loop

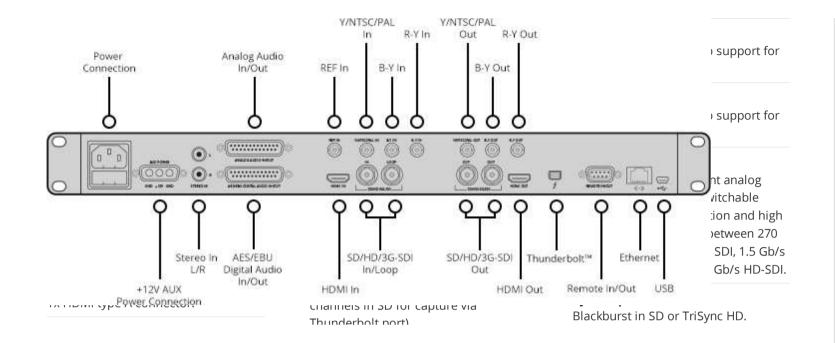
1x reclocked 10-bit SD, HD, 3Gb/s HD

Analog Audio Output

4x outputs of professional balanced analog audio on DB-25 for 4 audio channels. Pinout compatible with Yamaha[™], Mackie[™], Sony[™] and Apogee[™] connectors.

Dolby Support Built-In

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



Standards

SD Format Support

625/25 PAL and 525/29.97 NTSC.

HD Format Support

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

2K Format Support

2048 x 1080PsF23.98, 2048 x 1080p23.98, 2048 x 1080PsF24 and 2048 x 1080p24.

SDI Compliance

SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M and 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. (Capture and playback via Thunderbolt port supports RP188, VANC using up to 3 lines of video in file including closed captioning.)

Audio Sampling

Television standard sample rate of 48kHz and 24-bit HD, 20-bit SD.

Video Sampling

4:2:2

Color Precision 10-bit

Color Space

REC 601, REC 709

SDI Format Support

525 NTSC, 625 PAL, 720HD, 1080HD and 2K 2048 x 1080 switchable.

Analog Format Support

525 NTSC, 625 PAL, 720HD and 1080HD switchable.

Analog Component

NTSC/PAL 10-bit and 16x Over-sampled Output. HD 10-bit and 4x Over-sampled Output.

Analog Composite

NTSC/PAL 10-bit and 16x Over-sampled Output.

HDMI Color Precision 4:2:2 10-bit

Copy Protection

HDMI input is unable to capture from copy protected HDMI sources. Always confirm copyright ownership before capture or distribution of content.

Conversions

	480;59.94	576:50	720p50	720p59.94	720p60	1080p23.98	1080PsF23.98	1080p24	1080PsF24	1080p25	1080PsF25	1080p29.97	1080PsF29.97	1080p30	1080PsF30	1080;50	1080p50	1080;59:94	1080p59.94	1080i60	1080p.60	2k1080p23.98	2k1080PsF23.98	2k1080p24	2k1080PsF24
480i59.94	•		•	•				•			•			•		•				•					
576i50							•	•		•		•	•							•	•		•	•	•
720p50			•								•			•					•						
720p59.94											•											•		•	
720p60							0							•											
1080p23.98			•		•						0													•	
1080PsF23.98																								•	
1080p24									0	0													0		
1080PsF24								•		•											•	٠		•	
1080p25	•										•			•										•	
1080PsF25											•											•			
1080p29.97							•						•	•										•	
1080PsF29.97			•				0																	0	
1080p30																			0						
1080PsF30								•																	
1080i50								•												•					
1080p50			•																						
1080i59.94	•										•	•										•		•	
1080p59.94																									
1080i60			•		•																	•		•	
1080p60														•						•					
2k1080p23.98																									

Processing	Aspect Ratio Conversion Real time variable and fixed aspect ratio conversion including proprietary "SMART" aspect.	Real Time Effects during playback on a computer with Thunderbolt™ technology Final Cut Pro X internal effects. Premiere Pro CC Mercury Playback	Format Conversion Real time up conversion, down conversion, cross conversion and SD/HD standards conversion on			
	Real Time Video Processing Includes noise reduction, cadence detection with insertion/removal and cadence correction, scene cut detection, color correction, and proc amp control.	Engine effects. Avid Media Composer 6™ internal effects.	capture. Colorspace Conversion Hardware based real time.			
Software	Software Included Desktop Video software installs Media Express, Disk Speed Test, LiveKey, Blackmagic system preferences and Blackmagic driver for video capture	Installation Connected via a Thunderbolt cable (not included) to computers with Thunderbolt technology for video capture and playback.	Internal Software Upgrade Automatically upgrades when new software is connected via USB 2.0.			
	and playback via the converter's Thunderbolt port. Blackmagic UltraScope software for waveform monitoring from the converter's	Software Control Software control utility included free for changing settings via Windows 7 or Windows 8 and Mac OS X				

Operating Systems



Thunderbolt port.

Mac OS X 10.9 Mavericks, Mac OS X 10.10 Yosemite or later.



Windows 7 or Windows 8.

Windows 8 and Mac OS X.

Physical Specifications			1.75 in 5.85 in 3.85 lb
Power Requirements		oply with IEC C14 inlet. 100-240V, 50-60Hz. 1x 1. r redundancy with optional "brick" DC adapter.	
Environmental Specifications	Operating Temperature 5° to 50° C (41° to 122° F)	Storage Temperature -20° to 45° C (-4° to 113° F)	Relative Humidity 0% to 90% non-condensing
What's Included	Teranex 2D Processor Software CD		
Warranty	12 Months Limited Warranty.		