

Video Scaler EliteTM

Universal Video Scaler, Seamless Switcher, PIP, Standards Converter and More!
All Resolutions up to 2048 x 2048, Composite, Component, S-Video
With Options for SDI Video, Audio Follow and Ethernet



Video Scaler EliteTM is a universal video scaler, seamless switcher and Picture-in-Picture (PIP) generator and much more, with selectable resolutions up to 2048 x 2048.

Video Scaler Elite is also a Worldwide Standards Converter, Chromakeyer, Lumakeyer, Picture-in-Picture Device, HDTV Converter, Frame Synchronizer, Time Base Corrector, Aspect Ratio Converter and a Universal Image Genlock. The 9-Inputs and 4-Outputs will accommodate Composite Video, S-Video, Component Video (YCbCr, YPbPr), all HDTV formats and any RGBHV resolution up to 2048x2048. ANY resolution can be selected, including custom user-created values. Plus, Video Scaler Elite also has 2-Outputs for Preview (RGBHV and Composite Video) for live event switching.

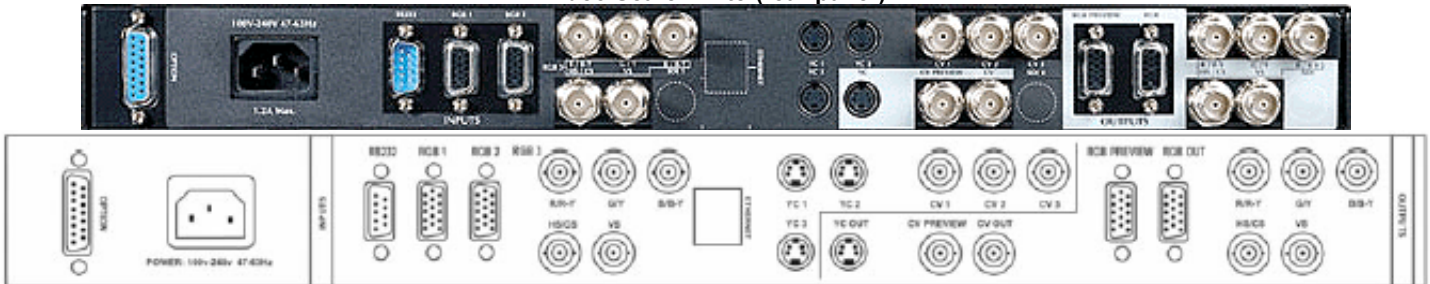
As a Picture-in-Picture Device, Video Scaler Elite is unparalleled in its price range. Any video input can be squeezed and placed into a window of any size and positioned anywhere on the screen. The window can be placed over any other video input as the background. The image in the window can then be seamlessly switched to another video input. The image can also be zoomed while it is in the window. Multiple Video Scaler Elite units may be cascaded to provide layer upon layer and window upon window of images from virtually any source, from Composite Video through HDTV and anything in between.

Video Scaler Elite is ideally suited for use with LCD Projectors, CRT Monitors, Projection TV Systems, Plasma or HDTV Displays to improve picture quality. With its output signal format flexibility, the Native Resolution of virtually any Digital Display can be matched. Adjustments are provided for Color Saturation, Hue, Brightness and Contrast and each video input has its own non-volatile memory to retain these settings, even when the power to the unit has been turned off. Integral Test Signals are user defined. A Logo memory is provided, so the unit can easily be used as a Logo Inserter. The Video Scaler Elite employs advanced motion compensation to smooth out fast moving images and its automatic 3:2 Pull-down efficiently de-interlaces video from 24 fps film. The unit can be controlled from the front panel, via RS-232 or by the optional Infrared Control. (See pricing at bottom of this page)

The SDI Option adds an SDI input and output. This brings the unit's I/O total to 10 Inputs and 5 Outputs. Additionally, a second SDI input is provided exclusively as a genlock source. The SDI I/O is fully integrated with the architecture of the unit, so that any of the other signal formats may be converted to and from SDI and the SDI signal can be used as either the background or insert in the Picture-in-Picture windowing mode. It is also possible to seamlessly switch between any of the analog inputs and the SDI input. (See pricing at bottom of this page)

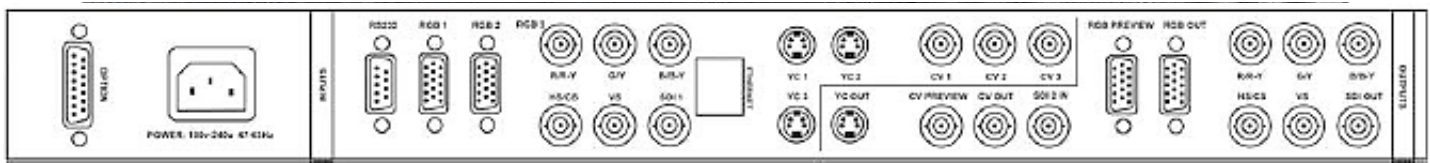
Audio Follow Elite adds Audio Follow Video or Audio Breakaway capability to Video Scaler Elite. This separate unit is 1 RU high and connects to the Scaler with a 15-Pin interconnect cable. The microprocessor in Audio Follow Elite communicates with the microprocessor in the Universal Scaler. All commands originate in the control software of the Universal Scaler. Audio Follow Elite provides both Balanced and Unbalanced connections for its 10 Inputs, plus its Preview and Program Outputs. (See pricing at bottom of this page)

Video Scaler Elite (rear panel)

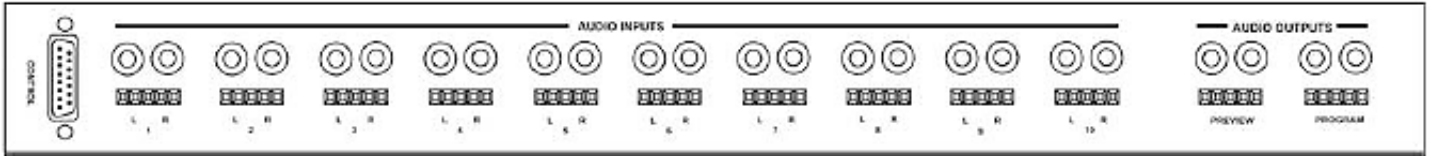


Video Scaler Elite with SDI Option (rear panel)





Audio Follow Elite (rear panel)



Multiple Products in One

- High Definition Video Scaler
- Multi-Format Seamless Switcher
- Frame Synchronizer/TBC
- Picture-in-Picture Device
- Multi-Format Windowing Device
- Worldwide TV Standards Converter
- Chromakeyer - Lumakeyer
- Scan Converter (Down Converter)
- Video Scaler (Up Converter)
- Multi-Format Image Synchronizer
- SDTV-HDTV Video Scaler
- PC-HDTV Video Scaler
- HDTV-HDTV Video Scaler
- PC-PC Video Scaler
- Analog-SDI Converter (Optional)
- Aspect Ratio Converter
- Video Transcoder
- Logo Inserter
- And more...

Key Features of Video Scaler Elite and SDI Option

- Multiple conversion and scaling products in one
- Up to 10 Multi-format Inputs, 5 Outputs
- 2 Preview Outputs -- RGBHV and Composite
- I/O: Comp, S-Video, YCbCr, YPbPr, RGBHV
- SDI Input and Output (Optional)
- AutoSet & trade; Sizing - Exclusive CORIO Feature
- PIP allows any input over any other input
- RS-232 Interface for external control
- Proc Amp for Video Adjustments
- CORIO2 Technology conversion engine
- Auto Detect worldwide television standards
- Zoom up to 1000% with 100% Pan coverage
- Video Processing Controls for Image Adjustment
- Front Panel Rotary Encoder and LCD
- Infrared Remote Control for all functions
- Universal Internal Power Supply

Video Scaler Elite™ SPECIFICATIONS

10 Video Inputs

Composite Video	3x via BNC Connector
S-Video (Y/C)	3x via 4-pin Mini-DIN Connector
SDI (Optional)	1x via BNC Connector
RGBHV, YPbPr, YCbCr	3x (1x via 5 BNC, 2x via HD-15F)

Genlock Input

Reference Signal	Any of the Video Inputs
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5 Video Outputs

Composite Video	1x via BNC Connector
S-Video (Y/C)	1x via 4-pin Mini-DIN Connector
SDI (Optional)	1x via BNC Connector
RGBHV, YPbPr, YCbCr	3x (1x via 5 BNC, 2x via HD-15F)

2 Preview Outputs:

Composite Video	1x via BNC Connector
RGBHV, YPbPr, YCbCr	1x via HD-15 Female Connector

Input/Output Range:

Computer Resolutions	Any from 640 x 480 to 2048 x 2048
Max Vert Refresh Rate	250Hz
Max Horiz Frequency	150Khz
HDTV Resolutions	480p, 576p, 720p, 1080i
Interlace Support	Progressive and Interlaced
Television Standards	NTSC 3.58, NTSC 4.43, SECAM, PAL-B, G, I, D, H, PAL-M, PAL-N
SDI (Optional)	SMPTE-259M

Input RGB Sync:

Type	Auto-detect RGBHV, RGBS, RGsB
Level/Impedance	TTL, 10K ohms
Polarity	Positive or Negative

Audio Switching (Optional)

Stereo Inputs	10x Balanced and Unbalanced
Program Output	1x Balanced and Unbalanced
Preview Output	1x Balanced and Unbalanced
Connectors per I/O	2x RCA for Unbalanced, 1x Terminal Block for Bal & Unbal

Control Methods:

Local Front Panel	10x Programmable Buttons + LED Rotary Selector, LCD Readout
RS-232 Interface	DB-9 Male Connector
Infrared Control (Optional)	IRC-5 Remote Control Unit
Audio Switcher Control	Via D-15 Options Connector from the Main Unit

Mechanical

Desktop Case (HWD)	1.75" x 17" x 7.9" (44 x 420 x 200mm)
With Rack Ears (HWD)	1.75" x 19" x 7.9" (44 x 482 x 200mm)
Weight (Net)	5.0 lbs (2.25 kg)

Environmental

Operating Temperature	+32 deg to +122 deg F (0 deg to +50 deg C)
Operating Humidity	10% to 85%, Non-condensing
Storage Temperature	-4 deg to +158 deg F (-20 deg to +70 deg C)

General

Image Size & Position	AutoSet or Manual
Image Zoom Range	Continuous to 1000%
Image Shrink Range	Continuous to 10%
Image Mirroring	Horizontal and/or Vertical

Image Freeze	Full Frame
Video Memory	4x4 Megabytes Picture Memory Buffers (16MB total)
Resolution Memory	Approximately 1,000 Definable
Firmware Memory	Flash, Upgradeable via RS-232
Flicker Filter	4-Level Vertical
Picture-in-Picture	Any 2 Video Inputs
Number of PIP Windows	Multiple Units may be Cascaded
Video I/O Impedance	75 ohms
Video Decoder	9-bit Digital
Comb Filter Decoding	Adaptive
De-Interlacing	Pixel-Level Motion Adaptive
Film Mode	3:2 Pull Down
Video Encoder	10-bit Digital
Digital Sampling	24-bit, 8-bits per R, G and B
Colors	16.7 Million
Internal Format	4:2:2 YCbCr
Internal Test Patterns	User Defined
LCD Panel	24 x 2 Character
Logo Inserter	Flash Programmable
Proc Amp Adjustments	Brightness, Contrast, Saturation & Hue for CV & SV Inputs, plus Video Level for RGB Inputs
Proc Amp Memory	Settings for each Video Input

Power Requirement

Internal Power Supply	100-240VAC, 47-63Hz, 50W
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Warranty

Limited Warranty	2 Years Parts and Labor
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Regulatory Approvals

Video Scaler Unit	FCC, CE
Power Supply	UL, CE, CSA

Accessories Included

1x C-Video Input Cable	6' BNC to BNC
1x S-Video Input Cable	6' 4-pin S-V to 4-pin S-V
1x VGA Output Cable	6' HD-15 Male to Male
1x RGBHV Output Cable	6' 5 BNC to 5 BNC
1x AC Power Cord	6' USA Type 3-pin
1x Rackmount Kit	2 Ears, 4 Screws
1x Software Disk	Windows Control Panel

Optional Accessories

Audio Follow Elite	Audio Switcher (controlled from Video Scaler Elite)
vse-IR	IR Remote Control Unit
vse-IP	Network Interface (factory installed)

Notes:

RGBHV Inputs/Outputs may also be RGBS or RGsB.

Video Scaler Elite	Universal Video Scaler	vse-01	\$3,995
SDI Option	Factory installed SDI Interface	vse-SDI	\$795
Network Interface Option	Factory installed Ethernet port	vse-IP	\$439
Audio Follow Elite	Audio-follow-video switcher for Video Scaler Elite	vse-AFP	\$1,295
IR-Remote Unit	Infrared Remote Controller for Video Scaler Elite	vse-IR	\$30

Please call or email to order, or receive a complete quote.

sales@spcomms.com

1-888-713-3700 or 661-242-1500

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