Stream Alpha Plus PCI-E

Genlock PCI card for character generation

Main feature

Works with pass-through composite or S-Video signal of PAL, SECAM and NTSC standards. Automatic activation of video signal relay bypass mode upon computer power loss. YUV component and key (alpha-channel) signal outputs allow to use the card with a mixer that has component and DSK (Down Stream Key) inputs.
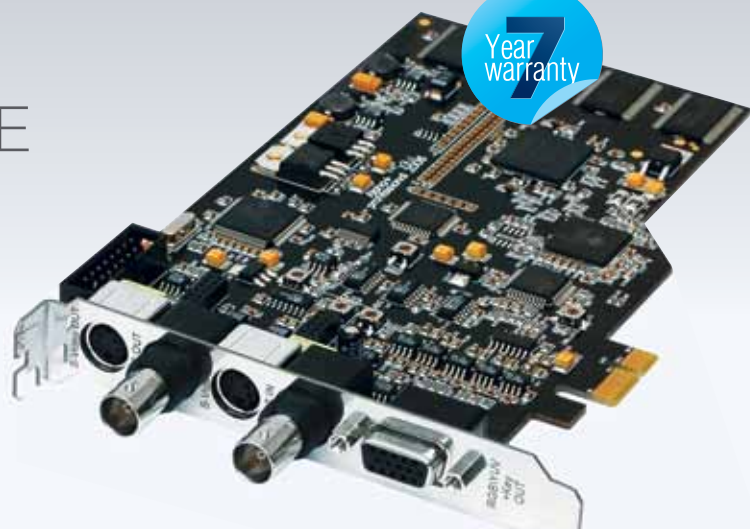In analog mixing mode pass-through signal is not being decoded, it is carried through the card without changes, while saving all its frequency characteristics and service information.
In digital mixing mode the signal is decoded by the latest PHILIPS decoder with color combine filter for dividing brightness and saturation signals.
In digital mixing mode the number of connection combinations is unlimited. This lowers the requirements for input signal quality, while preserving the high quality of the output signal.
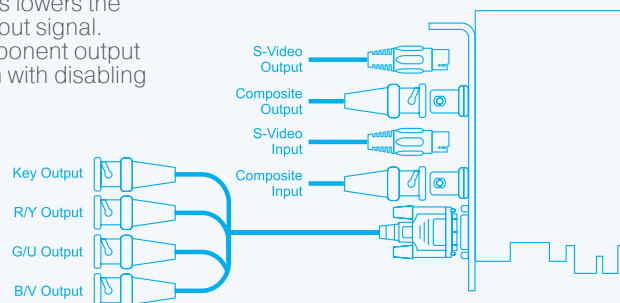All output signals pass through active filtration and black balance anchor. Component output green signal and key signal (alpha-channel) have built-in video synchronization with disabling option.
Capture and hardware scaling of video signal from card input allow to resize the pass-through video stream image in real time in combination with computer graphics overlay.

Specifications

Size	188 x126 mm.
Bus	PCI-Express 1x.
Inputs (1,0 v / 75 Ohm)	Composite: PAL/SECAM/NTSC; S-video: PAL, SECAM, NTSC
Outputs (1,0 v / 75 Ohm)	Composite: PAL/SECAM/NTSC; S-video: PAL, SECAM, NTSC; Component YUV; Analog linear key DSK signal alpha-channel output with sync pulse (BNC)
Relay Bypass in case of power failure	CVBS, S-Video.
Analog mixing bandwidth	> 10 MHz.
Differential nonlinearity	< 0,2 %.
Alpha-channel	256 degrees of transparency.
Alpha-channel delay adjustment	from -127 up +127 ½ pixel each.
Chrominance subcarrier phase adjustment	0 - 360° (256 values)
Adjustment of graphics position relative to sync signal	Within the limits of entire active line with an accuracy to one pixel.

Additional modules for Stream Alpha Plus

Audio BYPASS   extension card

Connector allocation

- Audio In: RCA x2 Line In (stereo)
- Audio Out: RCA x2 Line Out (stereo)
- Sound Card In: Phonejack Stereo, connects to computer sound card Line In
- Sound Card Out: Phonejack Stereo, connects to computer sound card Line Out

Stream Audio   extension sound card

Specifications

- 24-bit audio codec UDA1380.
- 48kHz sampling frequency.
- Audio in signal/noise ratio: 100 dB.
- Audio in channel decompression: 97 dB.
- Audio out signal/noise ratio: 68 dB.
- Audio out channel decompression: 90 dB.

Connector allocation

- Balanced analog Output: TRS 1/4' Balanced out (stereo)
- Balanced analog Input: TRS 1/4' Balanced in (stereo)
- Audio In: Phonejack Stereo Line in (stereo)
- Audio Out: Phonejack Stereo Line out (stereo)