

PRELIMINARY



THE NEXT-GENERATION EDITING AND EFFECTS SOLUTION.

CINEWAVE SYSTEM

Pinnacle Systems' new CinéWave™ System is the infinite editing and effects solution for the Apple® Mac® G4™. CinéWave combines Pinnacle's powerful compositing and effects software with next-generation editorial tools from Apple Computer®, all powered by the Pinnacle Systems' TARGA Ciné™ engine. The CinéWave System delivers all the quality and flexibility professionals demand. The unprecedented price/performance of CinéWave promises to redefine the video industry.

CinéWave moves beyond the limits of the past to deliver true uncompressed video quality on the Mac. All QuickTime, all the time. Supporting every major video format, the CinéWave is the ultimate platform for creativity and growth. Choose a CinéWave System for SD, or HD, or both. Do it all. Do it now. CinéWave is the new wave in digital cinema.

Infinite Choice: Do your editing and compositing at the highest possible quality. Don't compromise. Work with DV, component analog, D1, high definition, and even 1080p/24. Use multi-channel digital audio. Pick your aspect ratio—4:3 or 16:9—and output to tape, CD, DVD, or streaming media files. CinéWave can handle your format, I/O, and conversion needs without missing a beat. The revolutionary HUB3 "memory-centric" architecture of Pinnacle Systems' TARGA Ciné engine changes everything, giving you Infinite Possibilities and Infinite Creativity.

It's time to dream because now your dreams can come true—with CinéWave Systems.



TARGA Ciné Pro Analog Breakout Box
 Composite and s-video
 Analog component 8-bit
 Stereo analog audio—balanced and unbalanced

Video I/O (Pro Analog BOB)

- Analog composite, component, s-video, reference in (BNC)
- Component S/N 50 dB
- Component frequency response Y : ± 1.5 dB @ 4 MHz, -4 dB @ 5 MHz
- Pr, Pb : ± 2 dB @ 1 MHz, -6 dB @ 1.5 MHz
- Component Y/C delay ± 45 ns
- Composite S/N -50 dB
- Composite frequency response +1/-2 dB @ 4.2 MHz (NTSC)
- +1/-4 dB @ 4.8 MHz (PAL)
- Composite Y/C delay ± 30 ns
- K2T distortion 1%

Audio I/O (Pro Analog BOB)

- Analog unbalanced -10 dBu (RCA); balanced +4 dBu (XLR)
- Signal to noise balanced > 92 dB
- 20 Hz - 20 kHz A-weighted unbalanced > 90 dB
- Dynamic range > 94 dB
- A-weighted, -60 dB from F.S.
- THD+N * balanced < 0.007 %
- 1 kHz unbalanced < 0.01 %
- Headroom balanced 24 dBu
- Unbalanced 18 dBu

TARGA Ciné Pro Digital Breakout Box

- Serial Digital Interface (SMPTE 259M) with 8-channel embedded audio @ 20-bit/48 kHz

TARGA Ciné Pro D & A (Digital & Analog) Breakout Box

- Composite and S-video
- Analog component 10-bit
- Serial Digital (SMPTE 259M)
- 4 in/6 out analog balanced audio
- 4 in/4 out AES/EBU digital audio @ 20-bit/48 kHz
- 2 in/2 out S/PDIF digital audio
- 2 in/2 out unbalanced audio
- 8 in/8 out TDIF digital audio

TARGA Ciné Pro HD Digital Breakout Box

- HD Serial Digital Interface (SMPTE 292M) with 8-channel embedded audio @ 20-bit/48 kHz
- 480p/60/59.94
- 720p/60/59.94
- 1080i/60/59.94
- 1080p/24/23.98

The CinéWave System delivers professional software and hardware, working together seamlessly under QuickTime. The extraordinary scalable performance and outstanding video and audio quality of the TARGA Ciné engine is harnessed through a potent combination of QuickTime™ applications: Commotion Pro™, the exciting new compositing and effects software from Pinnacle Systems; Apple's Final Cut Pro™ professional editing application; and Pinnacle's Systems Hollywood FX™ 3D effects software. This integration of hardware and software makes CinéWave the media creation system professionals have always wanted on the Mac, at an affordable price.



Commotion Pro

Pinnacle Systems' Commotion Pro combines the power of the paintbrush with intuitive compositing and effects tools. You get powerful rotoscoping tools, high-accuracy motion tracking for realistic effects or fixing shaky shots, a paint system written from the ground up to ensure quality retouching, and world-class effects tools used by thousands of professionals worldwide.



Final Cut Pro

Apple's Final Cut Pro sets a new standard for professional editing power and flexibility. Now you can create high-quality video easily and affordably. Final Cut Pro is the only software in its class that combines professional editing, compositing, and special effects capabilities in one flexible and highly productive program.



Hollywood FX Bronze

Pinnacle Systems' Hollywood FX gives you incredible power to create 3D transitions and effects for your productions. Hollywood FX provides incredible ease of use while adding OpenGL-accelerated 3D graphics editing power.

CinéWave Connectivity

CinéWave Systems work in the Apple Mac G4 with built-in FireWire® connectivity (IEEE 1394). Digital audio and video from a DV device can be input using FireWire, then decompressed using QuickTime software codecs to work seamlessly within CinéWave.

The TARGA Ciné engine used in the CinéWave System has two of Pinnacle Systems new DigitalTether™ ports for easy attachment of a family of analog and/or digital input/output breakout boxes. The innovative DigitalTether plug-and-play solution carries multiple channels of bidirectional digital video, audio, and control information on a compact, mechanically robust interface. DigitalTether enables a simple upgrade of the CinéWave System from 8-bit to 10-bit analog, from analog to serial digital, or from standard definition to high definition. Use both DigitalTether ports in parallel to connect two TARGA Ciné Breakout Boxes, and output to both SD and HD simultaneously.

TARGA Ciné Engine

- 64-bit single-slot PCI card
- Native QuickTime drivers
- Uncompressed ITU-R.601, NTSC/PAL
- Uncompressed high definition
- Uncompressed 1080p/24 mastering format
- High-precision processing 4:2:2 or 4:4:4
- Selectable aspect ratio - 4:3 or 16:9
- Selectable frame rate - 24/25/30

- Real-time 3:2 pulldown for converting 24fps to 30fps
- Uncompressed digital audio at 20-bit/48 kHz
- HUB3 100 Mpixel/sec video CPU
- HUB3 dedicated memory 128 MB
- HUB3 memory access 1.5 GB/sec
- Dual DigitalTether ports for external I/O
- Capable of simultaneous output of SD and HD



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