PINNACLE *Liquid* EDITION

Live Production	**Editing**	Content Delivery	News Production	Sports Analysis	OEM/ Developer
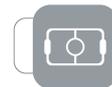
## Post Production & Broadcast Networked Editing Solutions

- Up to 10 Streams in Real-Time
- 1,000's of Real-Time Effects
- Editing, Effects, Compositing and Much More
- Integrated DVD Authoring from the Timeline
- Broadcast Quality Features and Effects
- Scalable, Flexible and Portable
- Networkable Storage and Access

connecting
creativity

PINNACLE SYSTEMS

Introducing Pinnacle Liquid Edition™ version 5.5, the most powerful and comprehensive DV editing solution available today. Based on overwhelming customer and market demand, Pinnacle has combined the professional expertise and esteemed broadcast heritage of the Pinnacle Liquid™ line with the plug and play power and ease of use of Edition to create Liquid Edition. Liquid Edition is not just another editor. On top of providing the strong editing features that professionals demand and require, Liquid Edition delivers stellar tools for impressive real-time compositing, effects and best of all, DVD authoring, all from the same easy to use intuitive interface.

True 3D Effects
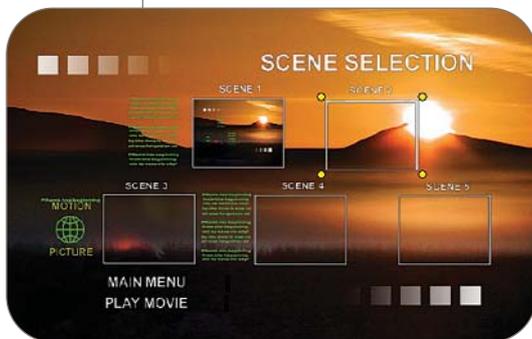
Integrated DVD Authoring

Advanced Color Correction

Key Features

Time is Money — 1,000's of Professional Real-Time Effects
Pinnacle Liquid Edition offers an incredible amount of real-time compositing and effects to bolster, not hamper your creative workflow. Up to 10 streams with real-time effects including 2D, true 3D, advanced color correction and chroma/luma key effects to name just a few.

Direct to DVD — Integrated Timeline Based DVD Authoring
Create wizard based DVD/VCD/SVCD with motion menus, motion buttons and automatic links using the same intuitive easy to use interface directly from the Liquid Edition timeline. Over 40 templates are provided to get you started.

Quality is King — Broadcast Quality Effects
Liquid Edition features the Liquid CX Color Correction with both secondary and selective color correction, Dynamic Slow Motion and a host of other high precision, sub-pixel software effects.

Kill Two Birds with One Stone — Background Processing
With Liquid Edition, you can continue to drive your creativity while you are rendering high quality DV output in the background.

Who's Your Buddy? — XSend™ to Broadcast Products and Other Creative Applications
Pinnacle Liquid's XSend feature allows you to seamlessly share clips and projects directly with Pinnacle Commotion Pro™, Adobe After Effects®, Macromedia Flash MX® as well as many of Pinnacle's legendary broadcast products like DekoCast™ and Thunder™.

Insurance Included — InstantSave
Why take the risk of losing work when with Liquid Edition's unique InstantSave technology, every step you make is immediately and automatically protected. You can even drop back to an earlier version of your project by using the Undo History palette.

Who's the Boss? — Customizable UI and Keyboard Shortcuts
Liquid Edition adapts to your workflow unlike other editing programs that require you to adapt to their constrained workflow. User interface commands and keyboard shortcuts can be customized to individual needs and can be stored on a per user basis.

Leave Your Glasses at Home — Full Onscreen DV Resolution Preview Capabilities
Liquid Edition supports a scalable UI for up to 1600 x 1200 resolution and full size Source and Preview Windows to accurately check your work.

Get Off the Island — Networked Drives
Liquid Edition allows you to map your networked drives so that multiple users can view and access the same media. Liquid is based on open networking standards and works with 100-baseT, Gigabit Ethernet and Fibre Channel storage solutions. Double the performance of your network by adding a Pinnacle Palladium™ network storage solution.

Exit Stage Right — Automatic Scene Detection
Based on time code or video content, Liquid Edition divides up the scenes into individual clips to let editors focus on creating rather than sorting through their footage.

The Verdict

DV Magazine, September 2003 by Mark Santora
"Premiere users should consider this (Pinnacle Edition PRO 5) a serious upgrade path. Adobe® should take notes. A lot of notes.....It's easily one of the best under-$1000 NLEs out there."

PC Magazine, August 2003 by Jan Ozer
"The new Pinnacle Edition 5 is the most effective video editor we've seen to date…the breadth and depth of its capabilities make it the only tool you're likely to need…"

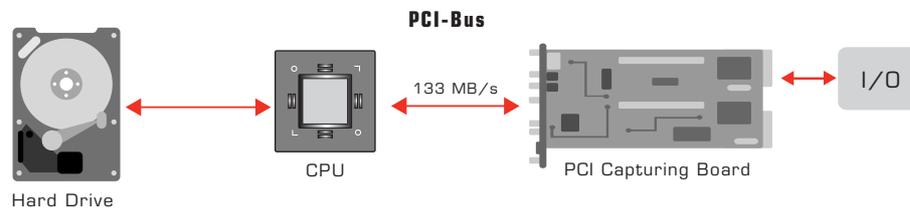### Videography, June 2003 by Oliver Peters
"Finally, Pinnacle has taken DVD authoring one step further. In version 5 of the Edition software, DVD authoring features have been built right into the editing application. In this manner, an editor can create a DVD without having to swap between different applications."

www.digitalvideoediting.com, June 2003 by Charlie White
"Edition 5 is first to market with effects that can use both the CPU and the GPU to display real time effects, and it works like a champ. It's stable, and the price is right. Highly recommended."
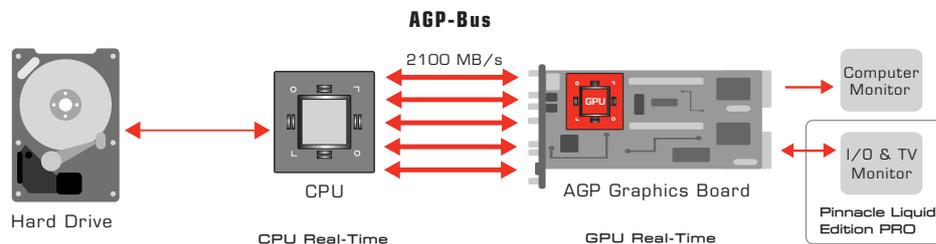

Liquid Edition PRO Breakout Box

PCI-Bus

133 MB/s

Hard Drive   CPU   PCI Capturing Board   I/O

Liquid Edition Setup

AGP-Bus

2100 MB/s

Hard Drive

CPU Real-Time   GPU Real-Time

AGP Graphics Board

Computer Monitor

I/O & TV Monitor

Pinnacle Liquid Edition PRO

Liquid Edition AGP Advantage

Pinnacle Liquid Edition is the first professional video editing system to use the throughput of the AGP bus which offers up to 16 times more bandwidth than competitive PCI-based solutions and therefore offers unequalled bandwidth for real-time effects on multiple video and graphic streams.

New Features in Liquid Edition 5.5

CX Color Correction

Liquid Edition's unique CX Color Correction offers a wealth of tools for top quality professional primary and secondary color correction including, but not limited to, one and three point tone, grey and color balance, primary and secondary selective color correction and a full set of color scopes.

Dynamic Slow Motion

Dynamic Slow Motion provides exceptionally fine control over the speed of clips and optimizes the ability to make adjustments to speed over time.

Networked Drives

With Liquid Edition it is possible to use networked drives as well as local drives for direct playback and rendering in a networked workgroup environment. When attached to a Pinnacle Palladium solution, Liquid Edition benefits from guaranteed high bandwidth video connections, as well as workgroup productivity improvements.

XSend Communication to Broadcast Products

Liquid Edition offers options such as XSend to Pinnacle Thunder and DekoCast, as well as communication with broadcast servers, automation and asset management systems. These interfaces provide for direct exchange of media and metadata for workflow integration. Furthermore, XSend to Macromedia Flash Video Files allows one to send video clips and projects directly to Macromedia Flash MX for applying enhancements targeted for web distribution.

RS-422 Machine Control

Professionals will appreciate the greater responsiveness and improved accuracy of deck and device control when using the RS-422 machine control built into Liquid Edition.

DVCPRO25 Support

In addition to DV and DVCAM, Liquid Edition supports DVCPRO25 as a native codec.

Jog/Shuttle Control Support

Pinnacle offers a broadcast quality Jog/Shuttle controller for fine control of the tape machines and editing in the timeline.

Midi Support

Control sound levels in Liquid Edition's audio editor via external faders attached by Midi.

ALE/OMFI Project Support

Liquid Edition's ability to import and export ALE files allows for the open exchange of clips, bins and project metadata with other editing systems, audio post production suites and asset management databases.

Sony Cliplink Support

With Sony Cliplink support, you can save time and resources by directly importing all Cliplink cut points and picons on capture.

Real-Time Effects

Liquid Edition Comes with 1,000's of Real-Time Effects Including:

3D Effects
- 3D DVE
- Page Curl
- Page Peel
- Cylinder
- Particle
- Magnify

Motion Effects
- 2D DVE
- Invert
- Crop
- Roll/Crawl
- MultiShape Crop
- MultiShape PIP
- MultiShape SpotLight

Transitions
- 2D Editor
- 3D Editor
- Cross Dissolve
- Gradient Wipe with Border

Color Correction
- Base Color Correction
- Brightness and Contrast
- Black-and-White

Keyers
- ChromaKeyerYUV
- Luma Keyer

Special Effects
- Lens Flare
- Blur
- Spotlight
- Posterize

Real-Time Savings—The Power of Two

- Up to 10 streams of real-time DV and graphics previewing gives you the freedom to explore dozens of creative options while meeting tight deadlines.
- Real-time analog out to tape with Liquid Edition PRO.
- GPU-based effects processing gives you 16X the effects processing throughput power of PCI-based solutions.
- Liquid Edition harnesses the full potential of your computer by driving real-time effects from both your CPU and GPU.
- Protect your future with a completely scalable architecture. The real-time power of Liquid Edition expands with faster CPUs and more powerful graphics cards.
- A complete real-time effects arsenal: 2D DVEs, true 3D DVEs, Dissolves, Wipes, Luma Keys, Chroma Keys, Spotlights, Lens Flares, Blurs, Particles and Hollywood FX effects and transitions.

Professional Tools

- Liquid Edition uses the same completely customizable user interface and programmable shortcuts found in the Liquid blue, silver and chrome solutions.
- Liquid Edition adds CX Selective Color Correction and Dynamic Slow Motion to your effects toolset.
- Complete range of software-based effects that render while you edit with sub-pixel precision.
- Real-time NTSC/PAL video monitor output and analog I/O with Liquid Edition PRO.

Direct to DVD

- Why waste time and energy switching between a completely different application with an unknown interface when with Liquid Edition you can author and burn DVD/VCD/SVCDs directly from the timeline.

- Liquid Edition includes DVD Wizard with over 40 easy to use templates to expedite authoring and delivery of professional looking DVD's.
- Customizable DVD menus with support for animated buttons and backgrounds.
- Direct export to elementary or program DVD streams as well as Super Video CD and Video CD.

Share and Share Alike

- Edit directly off of shared storage. Liquid Edition's intelligent media management is network savvy and lets multiple editors view and access the same media.
- Liquid Edition's Palladium option provides native support for Media Access Server (MAS) protocol, a video over Ethernet protocol that increases bandwidth performance and reliability of Ethernet connections for video when used with Pinnacle's Palladium network storage solutions.
- Pinnacle Liquid's XSend feature allows you to directly publish projects and clips to Commotion Pro, Adobe After Effects, Macromedia Flash MX as well as Pinnacle on-air broadcast products such as DekoCast and Thunder.
- Liquid Edition's ability to import and export ALE files as well as export OMF files provides an exchange of clip, bin and project metadata with other editing systems, audio post production suites and asset management databases.
- Take your project on the road with your laptop. Liquid Edition fully supports editing with real-time effects on a laptop.
- Share Liquid Edition projects across the entire Liquid product line including Liquid blue, Liquid chrome and Liquid silver.
- Produce once and distribute everywhere (e.g. tape for broadcast, DVD, and the Web) in the appropriate formats and style with Liquid Edition.

Liquid Edition Workflow
Produce Once, Distribute Everywhere

Video Tape

DVD / VCD

Web

System Requirements

Liquid Edition

Minimum
- Single 1 GHz processor
- 256 MB RAM
- Windows 2000 or XP Operating System
- 64 MB Graphics card and SVGA monitor capable of 1024 x 768 @ 32-bit resolution
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- OHCI compatible 1394 card
- Soundcard

Recommended
- Dual 1.8 GHz processor or above
- 512 MB RAM
- Windows XP Operating System
- 64 MB Graphics card and SVGA monitor capable of 1280 x 1024 @ 32-bit resolution
- Separate hard drive (AV-rated, minimum data transfer rate 16 MB/s)
- OHCI compatible 1394 card
- Soundcard

Liquid Edition PRO

Minimum
- 1.8 GHz processor
- 256 MB RAM
- Windows 2000 or XP Operating System
- Monitor capable of 1024 x 768 @ 32-bit resolution
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- AGP 2x or faster graphics slot
- Soundcard

Recommended
- Dual 1.8 GHz processor or above
- 512 MB RAM
- Windows XP Operating System
- Monitor capable of 1280 x 1024 @ 32-bit resolution
- Separate hard drive (AV-rated, minimum data transfer rate 16 MB/s)
- AGP 2x or faster graphics slot
- Soundcard

Liquid Edition Benefits You

Post Production
- Real-time power gives greater creative freedom.
- DVD authoring saves time and money.
- Offers required broadcast-quality toolset and effects (e.g. Secondary Color Correction, and Dynamic Slow Motion).

Broadcast
- Offers required broadcast-quality toolset (e.g. RS-422 machine control and ALE/OMFI project support) and effects.
- Share projects with the entire Liquid line of products as well as broadcast products like DekoCast and Thunder.
- Connect to Pinnacle Palladium SAN solution for guaranteed high bandwidth and optimized workgroup productivity.

Videographer
- Comprehensive solution with editing, compositing, effects and DVD authoring all in one place.
- Up to 10 streams of video with effects in real-time.
- Affordable price and plug and play set up make it accessible for all.
- Easy and intuitive interface minimizes learning curve.

Corporate
- Real-time power allows for quick turnaround on multiple creative directions.
- Template-based editing and DVD authoring for consistent corporate look and feel.
- Create once and publish to tape, web and DVD.
- Share projects with the entire Liquid line of products.