

PINNACLE

LIQUID EDITION

version 6

Simply Powerful

**Professional Real-time
Video Editing
and Effects with
Integrated DVD Authoring**



advanced editing

PINNACLE
SYSTEMS
www.pinnaclesys.com

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The smart choice in video editing just got smarter. Introducing Pinnacle Liquid Edition version 6, the most powerful and comprehensive editing solution available today. Pinnacle Liquid Edition combines plug and play muscle and ease of use with the professional expertise and esteemed broadcast heritage of the Pinnacle Liquid line. Liquid Edition is more powerful and accessible than ever with friendly new interface options and transparent interoperability with Pinnacle Studio. On top of providing the strong editing features that professionals demand and require, Liquid Edition version 6 delivers robust native real-time HDV editing, SmartRT real-time power, SmartEDIT multi-format native editing, advanced audio tools and DVD authoring, all from the same intuitive interface.



Key Features

1,000's of Real-time SD & HD Effects with SmartRT

Pinnacle Liquid Edition offers an incredible number of SmartRT powered real-time SD and HD compositing effects to bolster, not hamper, your creative workflow. Up to 10 streams with real-time effects including 2D, true 3D, colour correction and chroma/luma key effects to name just a few.

All-format Editing from SD to HD with SmartEDIT

Liquid Edition now includes SmartEDIT with expanded native support for just about any SD and HD format (DV, MPEG-2 IBP, MPEG-2 I-Frame, HDV and even uncompressed NTSC and PAL) in the same timeline.

Integrated 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. Furthermore, Liquid Edition SmartEDIT's native MPEG-2 IBP editing reduces the need for time-consuming renders at the output stage.

Friendly and Intuitive Interface

New Windows' friendly user interface options, to complement the classic Liquid look and feel, make Liquid Edition more accessible and easy to use than ever. Add to this, import and export wizards, seamless Pinnacle Studio project import and plug-in support, a highly configurable keyboard and interface layout, and you are in editing heaven.

New Steinberg Inspired Audio Engine

Steinberg inspired new audio effects engine commands an advanced audio mixer and full surround sound and VST plug-in support.

Broadcast Quality Effects

Liquid Edition features the Liquid CX Colour Correction with both secondary and selective colour correction, Dynamic Slow Motion and a host of other high precision, sub-pixel software effects.

Advanced Multicam Support

Now, even the most complex multi-camera productions can be edited in a breeze with Liquid Edition's new powerful resolution independent Multicam feature.

Background Processing

With Liquid Edition, you can continue to drive your creativity while you are rendering high quality format and resolution independent SD and HD output transparently in the background.

Instant Save

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.

Network Native

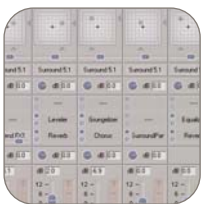
Liquid Edition allows you to map your networked drives so that multiple users can view and access the same media. Liquid Edition uniquely offers the ability to share not only media across a network, but also to share projects for multi-user workgroups.



Intuitive Interface



Integrated DVD Authoring



Professional Audio Tools



Multicam Support



Graduate from Studio

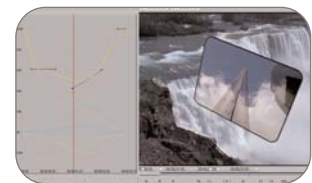
Liquid Edition version 6 includes new updated Windows friendly interface options; plug and play centralized external hardware Input and Output choices; and Studio compatibility making now the perfect time to step up to Liquid Edition from Pinnacle Studio. With Liquid Edition version 6, you can plug in your DV or HDV camera directly into your built-in FireWire (IEEE 1394) port and instantly start digitally transferring your favorite moments to your desktop or even your laptop computer. If you have analog sources, no problem, the attractive Liquid Edition PRO breakout box is the right choice for you. This plug and play USB-2 PRO box provides numerous options for capturing and previewing your content from most any digital and analog source. Liquid Edition version 6 has Studio project compatibility so you can effortlessly import Studio projects. That's not all; Liquid Edition now also supports Studio plug-ins.



Liquid Edition Feature Focus

The Native Power of SmartRT

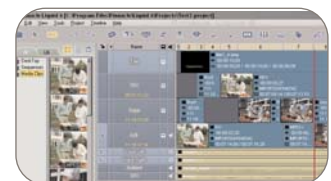
SmartRT is Liquid Edition's industry leading format-independent core software based real-time effects engine. Unlike others, Liquid Edition's SmartRT harnesses the full power of your computer's on-board central processing unit(s) (CPU) and graphics processing unit (GPU) to perform 1,000's of amazing format and resolution independent broadcast quality multi-stream 2D and true 3D real-time effects. Why spend another penny on quickly outdated cumbersome proprietary hardware cards, when all of the power you crave and require is already right underneath your fingertips. With Liquid Edition, you have the confidence of knowing you can harvest all of the available resources of your off-the-shelf hardware to power the most complicated resolution independent real-time projects. SmartRT seamlessly adapts when you move up to a new computer and/or go on vacation or location with your portable computer.



SmartRT Powered Effects

The Freedom of SmartEDIT

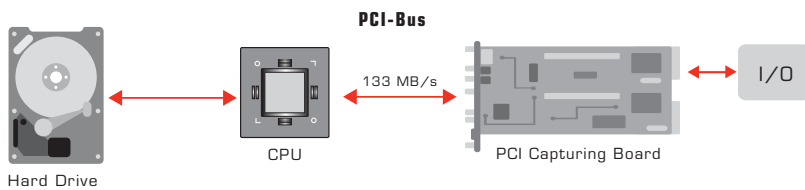
Liquid Edition SmartEDIT provides the freedom to edit in a variety of SD and HD formats (DV, MPEG-2 IBP, MPEG-2 I-Frame, uncompressed and even HDV) independently or more incredibly in the same timeline. Liquid Edition SmartEDIT's unique support for native MPEG-2 IBP material means you can edit pure HDV material and edit directly in the authoring format of DVDs. This eliminates the need for costly plug-ins and time-consuming quality damaging format conversions when outputting your finished HD or DVD projects. Furthermore, you can maximize your quality while minimizing your hard drive space requirements by choosing the formats that are appropriate for the scene. For example, with SmartEDIT, you can use uncompressed to garner the best quality possible for effects-laden shots and MPEG-2 IBP where cuts are more standard. And of course, SmartRT works seamlessly with SmartEDIT so that you can always maximise your real-time in any timeline with any format.



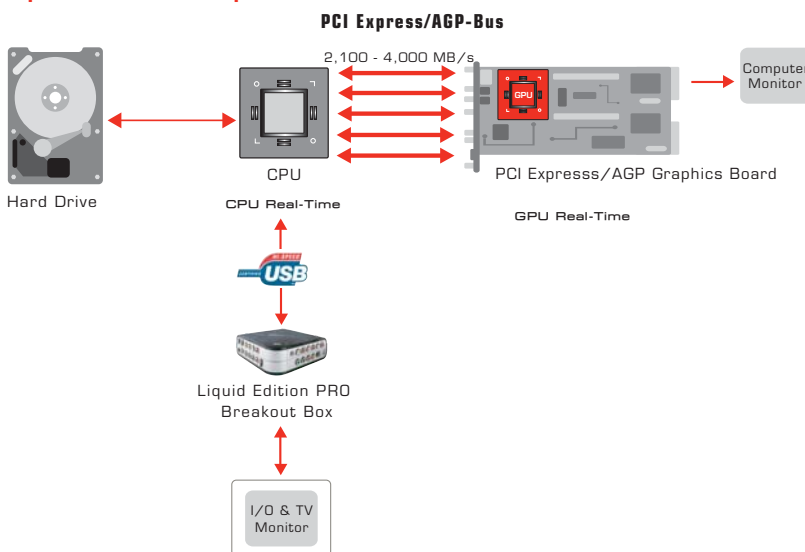
The Freedom of SmartEDIT



Conventional Setup



Liquid Edition PRO Setup



The Liquid Edition SmartRT Advantage

Pinnacle Liquid Edition is the first professional video editing system to utilize the throughput of either the AGP or PCI Express bus which offers up to 30 times more bandwidth than competitive PCI-based solutions and therefore offers unequalled bandwidth for real-time effects on multiple video and graphic streams.

Real-time Effects

Liquid Edition comes with 1,000's of SD and now HD 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

Colour Correction

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

Keyers

- Chroma Keyer YUV
- Luma Keyer

Special Effects

- Lens Flare
- Blur
- Spotlight
- Posterize
- Replicate
- Explosion
- Old Film
- Sepia



New Features in Liquid Edition version 6

HD Support – Fully integrated IEEE 1394 based HDV capture with native real-time HDV editing, effects and compositing both 1080i and 720p powered by Liquid Edition SmartRT.

Multi-format Support – Mix and match native DV25; MPEG-2 I-frame; MPEG-2 IBP (SD & HD); and uncompressed NTSC and PAL in a single timeline with Liquid Edition SmartEDIT.

Extreme Makeover – New Windows' friendly user interface options to complement the classic Liquid look and feel.

Simple Setup – Import and Export wizards to eliminate set-up hurdles.

Step Up From Studio – Seamless Pinnacle Studio project import and plug-in support.

Plug and Play – FireWire® I/O access to DV and HDV cameras and devices. Liquid Edition PRO adds an expanded set of professional analogue and digital I/O options conveniently centralized in an all new plug and play USB-2 based breakout box.

All New Audio Engine – Advanced audio mixer; full surround sound authoring; VST plug-in support; send busses, audio TimeWarp and much more.

Advanced Effects – Added functionality and control with parameter-based Bezier keyframe compositing and new powerful real-time Track Matte and Mosaic effects.

Multicam – Powerful editing tool for demanding multi-camera projects; Support for up to 16 cameras.

One Step Backup – Simplified backup and restoration of projects to and from any media including DVDs.

Liquid Edition

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The Verdict

www.digitalmedia.net, September 2004

"Pinnacle's Liquid Edition (version 6) is another step toward editing nirvana for the huge editing and broadcast equipment company.....New features like multicam, multi-format support, better backup facilities and wizards, along with improvements like the enhanced audio capabilities, HDV compatibility and a better user interface, make this a significantly improved nonlinear editing package."

- Charlie White

www.creativecow.net, August 2003

"Pinnacle has significantly enhanced the effect processing by accessing the computer's graphics processor (GPU) as well as the CPU, which gives the user up to 16 times more bandwidth for real-time effect processing. This quantum leap in NLE-to-Computer interaction allows Edition editors to assemble highly complex special effects and composites with little or no preview lag and nearly invisible rendering."

- George Avkerakis

Computer Video Editing, April 2004

"Liquid Edition is still one of our favorite editing programs. It provides an intuitive, no-nonsense editing environment, and a fluid, versatile workflow, as well as very impressive effects editors when you need them."

Video Systems, February 2004

"Pinnacle has now developed an NLE, Liquid Edition Pro, which eliminates even this last vestige of specialized hardware... I was able to apply various realtime filters to seven video streams without dropping frames....As Pentium CPUs and GPUs become ever more powerful, Pinnacle's approach to realtime naturally becomes more powerful."

- Steve Mullen

Computer Graphics, May 2004

"You tend to expect a great deal from a company that has won nine Emmy Awards. With Liquid Edition 5.5, Pinnacle Systems delivers. The company put a great deal of thought into this editing system, and it shows—from its power and flexibility to its highly detailed manuals.... Liquid Edition is all about working better, faster, and smarter—and it shows....With all the features Liquid Edition offers video editors...Pinnacle has hit a home run with this NLE."

- David Singer

AV Video Multimedia Producer, October 2003

"The basic system is anything but basic... With the integration of a well thought out and well executed DVD-authoring tool, Liquid Edition moves to the top in its class among all other nonlinear-editing systems ... the real power of Liquid Edition lies in the fact that it can be installed on a laptop,... I highly recommend Liquid Edition for its performance, feature set, and the fact that Pinnacle is a true leader in this industry that continues to innovate and improve its products."

- Matt Payne

Liquid Edition Includes

- Liquid Edition version 6 Software CD
 - Liquid Edition version 6 software
 - Liquid Edition Start-up project
 - Pinnacle Hollywood FX Plus RT
 - Pinnacle TitleDeko RT
 - 40+ DVD templates
 - 1,000+ real-time effects and presets
 - Liquid Edition Reference Manual on CD
- Liquid Edition User Guide
- Discovering Liquid Edition DVD including:
 - Introduction to Liquid Edition version 6 Video Tutorial
 - Liquid Edition version 6 for Liquid Edition version 5.5 Users Video Tutorial
 - Liquid Edition version 6 for Pinnacle Studio Users Video Tutorial
 - Sample SD and HD footage
- Liquid Edition Installation and Users Manual
- Liquid Edition Quick Reference Card

Liquid Edition PRO Adds

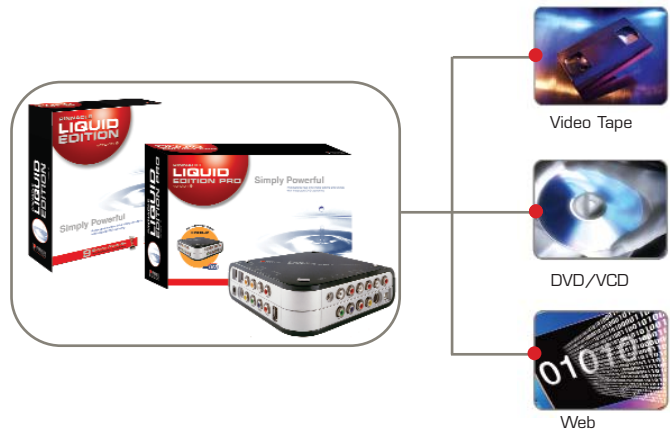
- Liquid Edition Reference Manual
- Liquid Edition PRO breakout box (component, composite, s-video, IEEE 1394, and analogue RCA or S/PDIF)
- Liquid Edition PRO breakout box stand

Liquid Edition Workflow

Produce Once, Distribute Everywhere

Professional Input/Output Options

The all new Liquid Edition PRO breakout box provides all of the centralized I/O options professionals demand within a convenient external USB-2 plug and play breakout box. The handy breakout box offers access to both consumer and professional camcorders and VTRs using composite, s-video or component video. Impressive new professional audio options supply stereo and S/PDIF audio, and output in full 5.1 surround sound. Now you can view all of the amazing Liquid SmartRT powered real-time effects with surround sound on your NTSC/PAL video monitor.



System Requirements

Liquid Edition

Minimum System Requirements For DV and MPEG-2 IBP SD Editing:

- Intel® Pentium® 4 Processor 1.8 GHz (3.0 GHz or dual 2.2 GHz recommended) or AMD® equivalent
- Microsoft® Windows® XP Professional or Home Edition, Service Pack 1 or 2 (SP1 or SP2)
- 512 MB RAM, 1 GB recommended
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- AGP 4x Graphics card with 64 MB graphics RAM and Microsoft DirectX® 9 support (128 MB recommended)
- Microsoft DirectX 9
- Sound card
- OHCI-compatible IEEE 1394 interface

For HDV Editing:

- Intel Pentium 4 Processor 2.8 GHz for 720p and dual 3.0 GHz for 1080i or AMD equivalent
- Microsoft Windows XP Professional
- 1 GB RAM
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- AGP 8x Graphics card with 128 MB graphics RAM for 720p, 256 MB RAM for 1080i; DirectX 9 support
- Microsoft DirectX 9
- Sound card
- OHCI-compatible IEEE 1394 interface

Liquid Edition PRO

Minimum System Requirements For DV and MPEG-2 IBP SD Editing:

- Intel Pentium 4 Processor 2.4 GHz (3.0 GHz recommended) or AMD equivalent
- Microsoft Windows XP Professional or Home Edition, Service Pack 1 or 2 (SP1 or SP2)
- 512 MB RAM, 1 GB recommended
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- AGP 4x Graphics card with 64 MB graphics RAM and Microsoft DirectX 9 support (128 MB recommended)
- Microsoft DirectX 9
- Sound Card
- Certified USB 2.0 controller

For HDV Editing:

- Intel Pentium 4 Processor 2.8 GHz 720p and dual 3.0 GHz for 1080i or AMD equivalent
- Microsoft Windows XP Professional
- 1 GB RAM
- Hard drive (AV-rated, minimum data transfer rate 10 MB/s)
- AGP 8x Graphics card with 128 MB graphics RAM for 720p, 256 MB RAM for 1080i; DirectX 9 support
- Microsoft DirectX 9
- Sound Card
- Certified USB 2.0 controller

Liquid Edition Benefits You

Videographer

- Comprehensive solution with editing, compositing, effects, professional audio tools and DVD authoring all in one place
- Up to 10 streams of SD and HD video with SmartRT powered real-time effects
- Affordable price and plug and play set up make it accessible for all
- New easy and intuitive interface options and training resources minimise the learning curve

Corporate

- Built-in SmartRT real-time power allows for quick turnaround on multiple creative directions
- SmartEDIT provides the ability to mix and match in any format
- 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

Post Production

- SmartRT real-time power gives greater creative freedom
- Pure DVD editing and authoring preserves quality and saves time and money
- Offers required broadcast-quality toolset and effects (i.e. Multicam, Secondary Colour Correction, and Dynamic Slow Motion)
- SmartEDIT provides the ability to mix and match in any format even HDV and uncompressed NTSC and PAL

Broadcaster

- 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 Pinnacle Broadcast products like DekoCast, Thunder and MediaStream
- Connect to broadcast SAN or NAS solutions for fully networked workflow