

Editing Solutions

Editing Solutions Windows® Platform

Live Production | High Definition | **Editing** | Content Delivery | News Production | Sports Analysis

TARGA® 3000

Card

32/64 bit single slot PCI card

Video Codecs

DV25, DVCPR025 and DVCAM
MPEG 4:2:2 I-frame 10 - 50Mb/s (4-20GB/hr)
Uncompressed YUV (72 GB/hr)
Uncompressed RGBA (144 GB/hr)
MPEG-IBP (export)

Connectivity

1394/DV included on every TARGA 3000
Digital Tether™ – connectivity to one of the TARGA 3000 breakout boxes:

TARGA Pro Analog Breakout Box

Composite and S-Video
Analog component
Stereo analog audio – balanced and unbalanced

TARGA Pro Digital Breakout Box

Serial digital (SDI) with embedded stereo audio

Editing and Effects

HUB3 100 Mpixel/s memory centric video processor
3 real-time video layers and 6+ real-time graphics layers
16+ accelerated layers

Each layer supports:

Pushes and slides
Sub-pixel 2D DVE
Image Zoom
Advanced color correction with full curve fitting on every component
Alpha and Chroma keying
100s of great looking pre-loaded effects
Programmable arbitrary wipe shapes
Unmatched quality with 4:4:4:4 processing



Tools

Editing software
Adobe® Premiere® 5.1 and 6
in-sync® Speed Razor™ 2000 (optional)

Real-Time Capture and Playback

TARGA 3000 Advanced Playback Engine Including:
Capture and real-time playback plug-ins
TARGA FX Chooser with a selection of 100s of pre-prepared effects
TARGA FX Factory with full editing tools to create keyframeable custom effects
Advanced titling – Pinnacle Systems' TitleDeko RT™ (TitleDeko Pro optional)
Frame accurate machine control–Pipeline ProVTR™
Programmable 3D FX–Pinnacle Systems' Hollywood FX™

Compositing Software

Pinnacle Systems Commotion Pro™ including Primatte
Keyer, Image Lounge, and Composite Wizard

CD/DVD Authoring Software

Pinnacle Systems Impression™ SE
Pinnacle Systems Impression™ DVD (option)
Pinnacle Systems TARGA MPEG Works

Web Authoring

One step capture plug-in for direct uncompressed capture into RealNetworks® format

3D Mastering

Animation Recorder plug-in for visualization and output within Discreet® 3D Studio MAX™ and combustion™, Commotion Pro™ and Adobe After Effects®

PINNACLE SYSTEMS BROADCAST / PROFESSIONAL SOLUTIONS

TECHNICAL SPECIFICATIONS

Live Production | High Definition | **Editing** | Content Delivery | News Production | Sports Analysis

Liquid blue™

Liquid blue is a complete turnkey editing solution which is the first system to offer end-to-end native digital production in all formats. Liquid blue supports digital formats including DV, DVCAM, DVCPRO 25/50, MPEG-2, MPEG IMX, and uncompressed, as well as SDTI transfer, both 2x and 4x. Liquid blue is targeted at broadcast accounts performing networked news, magazine and promo production, as well as broadcast post production.

System Configuration

Includes v4 software, 19" rackmount PC (Liquid blue codec and 2 InTime boards), Liquid blue Connect box and cable, Liquid blue Control (Joy/Shuttle), internal SCSI storage 292 GB, SCSI adapter, sound card, color keyboard, and mouse control.

System Formats

NTSC 525/60 Hz or PAL 625/50 Hz

Supported Video Codecs

DV/DVCAM
DVCPRO 25/ 50*
Uncompressed*
MPEG-2
MPEG IMX*

Audio Inputs

Two analog balanced, XLR
Four AES/EBU In (4 x 2 channels)
IEEE 1394
SDI/SDTI embedded

Audio Outputs

Two analog balanced, XLR
Four AES/EBU Out (4 x 2 channels)
IEEE 1394
Headphone
SDI/SDTI embedded



Video Inputs

SDTI (native : 1x / 2x / 4x DVCAM, 1x DVCPR025, 1x DVCPR050*, 1x / 2x MPEG IMX)
Six pin IEEE 1394 connectors*
3 SDI (SMPTE259M)
Y/C (Monitor In)
CVBS (Monitor In)
Reference genlock with loop thru

Video Outputs

SDTI (native : DV/DVCAM, DVCPRO 25, DVCPRO 50,* MPEG IMX*)
Six pin IEEE 1394 connectors
4 SDI (SMPTE259M)
Y/C (Monitor Out)
CVBS (Monitor Out)

Dimensions

Main Chassis: 19" x 24" x 8.5"
(48.26 cm x 58.88 cm x 18.7cm)
Breakout box: 19" x 14" x 8"

Power Consumption

Main Chassis: < 400 watts



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Liquid silver™

Liquid silver is the perfect product for long form or corporate editing needs. Liquid silver uses MPEG-2 and uncompressed, offering the same quality as traditional MJPEG systems for 40% less disk usage. In addition to offering all the advantages of the Pinnacle Liquid software, Liquid silver also offers direct MPEG-2 IBP capture, and integrated MPEG-2 IBP export and DVD burning, making this the perfect solution for the DVD market.

System Configuration**

Includes editing software, board set, and system with Color Keyboard. Pinnacle Systems Care Contract (one year) included.

System Formats

NTSC 525/60 Hz or PAL 625/50 Hz

Supported Video Codecs

Uncompressed*
MPEG-2
1394 / DV25*

Video Inputs

Six pin IEEE 1394 connectors*
SDI (SMPTE259M)
Component YCrCb*
Y/C
CVBS



Video Outputs

IEEE 1394*
SDI (SMPTE259M)
Component YCrCb*
Y/C
CVBS

Audio Inputs

Four channels embedded audio (SDI)
Two channels analog balanced (XLR)
4 channels analog balanced,* (XLR)

Audio Outputs

2 channels embedded audio (SDI)
2 channels analog balanced*

Dimensions

Main Chassis: 19" x 22" x 7"
(48.26 cm x 58.88 cm x 17.18 cm)
Breakout box: 17" x 4" x 1 1/2"
YUV breakout box* 17" x 4" x 1 1/2"

Power Consumption

Main Chassis: < 400 watts

Liquid purple™

Much of the broadcast market is using DV as its production format. Liquid purple is the editing solution for these customers. Liquid purple offers all the power of Pinnacle Liquid software, including hardware acceleration with InTime, RS 422 machine control, project interoperability with ALE and OMFI and options to perform advanced color correction and slow motion.

System Configuration**

Includes editing software, board set, color keyboard, and system with 72 GB storage. Pinnacle Systems Care Contract (one year) included.

System Formats

NTSC 525/60 Hz or PAL 625/50 Hz

Supported Video Codecs

DV/DVCAM/DVCPR025



Video Inputs

Six pin IEEE 1394 connectors

Video Outputs

IEEE 1394

Audio Inputs & Outputs

IEEE 1394

Dimensions

Main Chassis: 19" x 22" x 7"
(48.26 cm x 58.88 cm x 17.18 cm)

Power Consumption

Main Chassis: < 250 watts

Pinnacle Liquid™ Software

Interface

- Hierarchical data management with racks and folders, desktop as workspace
- Different text and picon display modes for clips
- Complete and individually configurable editing environment
- User LogIn with personal profile, transferable to any other Pinnacle Liquid system
- InstantSave Technology, software is always in saved state
- Extended Multiprocessor support
- Real-time functions with Background Processing, no waiting for rendering

Editing

- Unlimited number of timeline tracks for video, audio, graphics, and titles
- Storyboarding
- Filmstyle and Overwrite mode
- 3-Point Editing
- Drag and Drop Editing
- Trim Editor
- Direct Timeline trimming
- Playline loop playback
- Match Frame
- Extend Edit
- Move/Copy Range
- Add Dissolve
- Track SyncLock
- JKL shuttle
- Primary Color Correction (real-time on Liquid blue), HSL, RGB in Blacklevel, Gamma, Gain
- Color Correction Editor with Secondary Selective Color Correction and Auto White Balance, Histogram- and Hue-match, Legalizer, Tone-, Gray-, Color-balance etc. Vectorscope, Waveform, Cube etc. all based on the full frame
- Effect Editors for 2D, 3D, Color, Key, Filter, Wipe FX
- All Effect Editors with preview and unlimited keyframes with interpolation
- Linear TimeWarp for fast and easy speed changes, Fit to Fill function
- Time Warp Editor for sophisticated dynamic slow/fast motion fx, Strobe and Trailing fx
- Integrated title generator for still, roll, and crawl titles

- Adobe Premiere-compatible plug-in interface for e.g. Ultimatte, Boris FX/Red, Final FX AP, Pinnacle Vortex™, Hollywood FX™ etc.
- Customizable audio output routing
- Immediate Waveform display (mono/stereo) in Clip/Source Viewer and Timeline
- Rubberband editing for volume and panning
- Advanced audio editing tools (auto fade, dB tooltip etc.)
- Virtual audio mixing console with groupable fader
- Audio Mix Automation function
- Real-time parametric 3-band equalizer, echo, and maximizer
- VoiceOver function, full duplex
- Midi support for external audio fader

* Options

** Turnkey systems available in the Americas only