

VT5

live video production
post production

VT[5]TM delivers versatility in live production with up to 24 inputs along with hundreds of real-time transitions and 3D DVE's, network-style live virtual sets, character generator, real-time keying and digital disk recorder for integration of captured video clips. In post production, VT[5] delivers streamlined editing, 2D video paint and animation system along with Emmy® Award winning LightWave 3D® for motion graphics and animation. VT[5] total video production control at your fingertips.

VT[5] Live Bundle Key features

- **IVGA** This one of the new collaborative tools in VT[5] allows you to bring in desktop imagery from other computers across a local network.
- New VT[5] is projector output directly from your graphics card. This allows you to blend incoming iVGA sources with the switcher's graphics and video signals.
- Post Editing, Unlimited layering in real-time, Multi-format and multi-standard editing, More than 500 real-time transitions
- Live Production, 8 Component inputs, 8 Y/C inputs, Up to 24 Composite inputs, Internal Genlock, Real-time chroma key
- Digital Content Creation, Character Generator, Aura Paint, Lightwave 3D 8.5
- Workflow Improvement
- Multi-format, multi-standard on-screen tape deck
- Audio Mixer, Mix 8 stereo live and 8 4-channel online audio sources
- Digital Disk Recorder (VT-DDRTM) Operate multiple DDRs simultaneously
- Proc Amp, VT-Scope, VT-Vision, External Controller, Supports multiple RS-422 and DV decks

Live Production

- Advanced NewTek LiveSetTM effects engine
- Completely integrated live virtual set system
- LiveMatteTM provides sophisticated keyer previews
- Optional LiveControlTM LC-11 switcher surface
- Optional TimeWarp replay and slo-mo controller
- Optional 8-input SX-SDI switching hardware
- Optional LiveTextTM remote titling and graphics software
- Optional DataLinkTM real-time linking and display of external scores or files
- Live streaming in Flash, Windows Media or VC-1 formats
- On-screen Video Monitor supports any resolution / aspect
- Monitor offers action safe / title safe overlays
- Still Frame option on capture panel
- iVGA Recorder captures remote client displays as video
- DDRs support different clip aspect ratios
- DDRs support file formats listed below, including Apple® QuickTimeTM
- VGA output to projector includes real-time image enhancement

- VGA supports remote applications, such as LiveText
- Record show in I-frame MPEG-2 with optional MP3 audio
- Clock now on main interface
- Create and export title templates for VT[5] or TriCaster™
- Title templates can be placed on Effects bus
- Render scrolls/crawls to any SpeedEDIT™ formats (HDV, etc)

Post Production

- Integrates SpeedEDIT™, World's Fastest Video Editor
- Improved file format support
- TriCaster™ Update 2.0 project support
- HDR and floating-point image support
- Supports all audio channels from 4-channel DV files
- Audio plug-in support for VST audio filters
- VST audio plug-ins included from Voxengo
- CG Post animatable Character Generator
- Real-time Print to Tape for DV with dropped frame alerts
- Control Tree spline nodes support ease-in, ease-out
- Easily change the fielding order of clips
- Improved color correction
- 3-band color correction
- 4-channel selective color correction
- Tool Shed Project Backup wizard Time-code burn-in tool for playback overlay
- Advanced new cross-fades
- Dip to color, with selectable colors
- Additive cross-fades
- Additional filters, including Black & white; Sepia

Miscellaneous

- Audio/Video drivers support Windows Media Encoder and Flash encoder
- AVI wrapper has been re-written to support more project features
- SpeedHQ™ codec supports
- 4:2:2 video with and without alpha channel
- 4:4:4 video support with and without alpha channel
- Complete multi-core and multi-CPU decoding
- Customizable UI colors in Preferences
- Significantly improved readability across all modules
- Windows Vista™ UAC support
- Standard (non-admin) windows accounts now supported

Refinements

Reliability

- Drivers no longer take any system resources when VT is not actually running.
- Re-written installer is more reliable, and does not need any path settings.

- Native support for MPEG-1, MPEG-2, MPEG-4, QuickTime™, DV, MJPEG decoding and encoding, reducing reliance on external codecs.

Performance

- Multi-threaded, taking advantage of multi-core and multi-CPU machines.
- Reduced memory usage for many core operations.
- Aggressively optimized for SSE2 instructions.
- Improved desktop visuals.
- File assets always exist for resolution, frame-rate, audio sample rate, etc...
- All modules fully support aspect ratio.

Live Switching

- LiveSet™ Effects Engine
- Live Virtual Sets - multiple angles and multiple focal lengths per set
- Upstream effects row
- 8 Component inputs
- 8 Y/C inputs
- Up to 24 Composite inputs
- 8 Serial Digital inputs (with SX-SDI)
- DV input Support
- Real-time FireWire input or output
- Automated Audio Mixer
- 4 Component outputs
- 4 Y/C outputs
- 5 SDI outputs (with SX-SDI)
- Preview output
- 4 Composite outputs
- 3 RS-422 machine control ports
- Real-time, advanced chroma keyer
- LiveMatte™ keyer previews of color, edge and spill
- Cue mode in Digital Disk Recorder
- 200+ digital transitions Dual GPI In / Out
- 8 Internal Tally light controls
- Background generator
- Internal Genlock

Audio Mixer

- Mix 8 stereo live and 8 4-channel online audio sources
- 4-track audio: 4 discrete channels of audio in and out
- Supports SDI embedded audio (with SX-SDI)
- Talk-over, reduces mix levels for mic inputs to talk over
- 4 adjustable XLR balanced mic / line inputs with Phantom power
- 6 stereo unbalanced audio ins from live sources

- 8 stereo inputs from computer sources
- DV and SDI audio inputs
- Floating point audio with distortion-free audio levels
- EQ, balance, mute and mono for all 16 audio inputs
- Aux Mix: stereo aux send and aux returns for external sweetening
- Automated mixing: transition between audio presets
- Calibrated audio meters
- Audio-follows-video option
- Manage your output mix with Input Pass Thru
- PA Mix Out: for live PA or control room feed
- Balance on all inputs and outputs

Digital Disk Recorder

- Multi-format, multi-standard on-screen tape deck
- Compressed or uncompressed playback
- Detects clip aspect ratios for playback
- Play back a single clip or list of clips
- Cue clips to roll when triggered by Switcher
- Real-time transitions between clips
- Count up or count down project time or clip time
- Operate multiple DDRs simultaneously
- EDL import/export (Grass Valley, CMX, Sony, Excel)

Proc Amp

- Brightness
- Contrast
- Hue
- Saturation
- U Offset, V Offset
- U Gain, V Gain
- Track Preview function
- More than 70 adjustable parameters
- Calibrate computer sources as well as analog sources
- Auto Calibration for 75 IRE bars, 100 IRE bars, video pass-through (requires SX-84)

Video Scope

- Full-frame data
- 60 fields-per-second
- Monitor Program or Preview
- Waveform of Y/C, Y, C, YUV or RGB
- Vectorscope at either 75% or 100% Chroma

Video Monitor

- Fully fielded on-screen playback
- YUV video display
- Monitor Program, Preview, Key / Aux or DSK buses
- Display supports for 4:3 and 16:9 aspect
- Display of Action Safe / Title Safe boundaries
- Underscan mode
- Zebra stripes for 75 IRE and illegal video
- Proc-Amp for matching computer display to reference video monitors

CG Designer

- WYSIWYG text and graphics editing
- Save projects or pages
- Display Program output within CG interface
- Use any installed TrueType™ font
- Create Title Templates
- Export Title Templates
- Assign a Title Template to any source in Upstream effects row
- Save pages as 32-bit images or animations
- Soft shadows
- Create graphic objects (boxes, circles, splines)
- Instantly save or recall text styles
- Powerful drawing tools

Title Templates

- Easy creation of live pages
- More than 80 styles
- Customize/create new templates in CG Designer
- Export any title to upstream effects

iVGA

- Import external computer displays as switcher source
- Queue up to 3 iVGA sources
- Client provided for Windows and Mac systems
- Software-based scan conversion to video resolution
- Dedicate iVGA output to connected projector
- Digital Video Effects:
- More than 200 real-time transitions
- Expansions
- Wipes

- Curls
- Trajectories
- Fades
- Overlays
- Rotations
- Compressions
- Borders
- More...