

Velocity XNG™

Field Editor

EDITING // VELOCITY XNG™



Velocity XNG™ is a software-based HD and SD field editor designed for use on a laptop. It is a member of the NewsForce™ family of Velocity™ editors, all of which deliver exceptionally fast completion to air. Utilizing powerful software codecs and effects processing, Velocity XNG allows operators to complete their edits using the fully featured user interface. Concise audio controls, numerous transitions and advanced video effects are all available and easy to use.

PRODUCT DETAILS

Velocity XNG users working remotely can use new field material or local copies of content previously pulled from the NEXIO® SAN. The finished edit can be sent back to the newsroom over a remote IP connection or transferred directly onto the SAN at the facility. Velocity XNG uses powerful Harris® Media ID technology to play from pointer lists and transfer only the necessary video and audio clips back to the SAN. The use of Media ID can significantly reduce bandwidth requirements and enables instant playback of edits by eliminating any need to create separate, flattened files before air.

Velocity XNG can also be used with select third-party FireWire™ I/O devices, allowing baseband input and output in a variety of formats. Intelligent playout eliminates any rendering for cuts-only edits maintained in the native format. This workflow ensures compatibility with existing remote infrastructures utilizing standard SD microwave links.

Whether editing DV, HDV, P2®, XDCAM®, HD or SD, Velocity XNG handles all formats on the same timeline. Complete control is available for up/down/cross conversion with aspect ratio adjustments. Fully MOS-compliant, the system integrates with all popular newsroom computer systems, including AP ENPS® and Avid iNEWS®. This sophisticated integration enables journalists to tie rundowns and scripts to finished edits, and time shots and VOs to the read rates of presenters. Velocity XNG is the ideal system for remote newsgathering and field editing applications.

Acquisition Formats

Velocity XNG offers the foremost support of file-based acquisition formats including JVC ProHD35Mbps and Ikegami GFCAM. Purpose-built P2®, XDCAM® and XDCAM EX viewers allow browsing of native media and metadata directly off of the recording medium. Edit in place with high-resolution or proxy clips can be performed immediately with no file conversion or localization. Edited clips can then be imported for inclusion as shared media on the NEXIO SAN. Select MXF metadata can be mapped upon import, allowing this important information to be retained for searching and archiving. Content from cell phones and PDAs, such as Apple® iPhone®, as well as other Flash-based recording devices are also supported.

FEATURES

- Access to all shared content on the NEXIO SAN using the Harris MediaBase™ content management system
- Pull content from the SAN for editing in the field
- NRCS integration with AP ENPS® and Avid iNEWS®, including script-based editing with audio voiceover and read-rate-based prompter
- Integrated codecs and viewers for Panasonic® P2®, DVCPRO HD and AVC-Intra™, Sony® XDCAM®, XDCAM HD, XDCAM HD422, and XDCAM EX formats
- Baseband input and output with select third-party FireWire™ devices
- DV and HDV capture and print to tape
- Import and export of EDL, AAF, OMF, BXF and Apple® Final Cut Pro® XML files
- Import and export of common audio, video and graphic file formats
- Shared projects, settings and user profiles
- Manage and protect media, projects, render files, settings and presets
- User profile-based, customizable window layout, hotkeys and settings
- Optional integration with NEXIO® InstantOnline III™ auto-conform engine
- Optional global proxy encoder and global proxy MediaBase viewer

Editing Toolset

- Edit clips during ingest when connected to the NEXIO SAN
- Multi-function Trim window including 4:3 and 16:9 safe area markers
- Precise insert and overwrite three-point editing; intuitive drag-and-drop style editing
- Harris Media ID pointer-playout technology for instant playback or Movie ID for flattened output
- Interactive editing and effects creation without stopping playback
- Mixed HD and SD content on the same timeline with global and clip-based up/down/cross and aspect ratio conversion
- Selectable preview quality playback for increased frame rate during playback of complex formats, effects and layers
- Multiple galleries and timelines with configurable video and audio tracks
- Track based Eyecon view and advanced multicamera editing
- Render bank technology with smart and batch rendering capability
- Create index marks and sub-clips
- Optional jog/shuttle and audio fader controllers
- Audio VU levels, mixing, fades, rubber banding, stereo panning, track patching, output routing, mute and solo
- Import graphics, animations, video and audio directly to the SAN

Video Transitions and Effects

- More than 375 customizable 2D and 3D transitions
- Dozens of keyframeable video effects, including PIP and color correction
- Support for third-party audio VST filters, video effects and transitions; integration with Adobe® After Effects®
- Slow/fast motion speed change, reverse playback and strobe/stutter
- Freeze frame/stills
- Title rolls, crawls and animations using bundled Inscribe® TitleMotion® GS and third-party CG plugins

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Format Flexibility

The Velocity XNG field editor's use of software codecs allows common file formats to be edited natively in place or imported to the NEXIO SAN. Supported file types include AVI, MOV, MPG, MP4, 3GP, SWF, WMV, MP3, WAV, BMP, JPEG, TIF, TGA, PNG and PSD. This flexibility also includes the ability to mix and match any HD, SD or other content in both 4:3 and 16:9 aspect ratios with complete control over the aspect ratio conversion used. Selectable quality previews can be performed without the need for rendering.

Multiformat Output

Velocity XNG simplifies and accelerates the output of multiformat material such as Quicktime®, Windows® Media, RealMedia, AVI, MPEG-2, MPEG-4, H.264, Flash, 3GP/3G2 and iPod®/iPhone. Configured presets allow creation of multiple formats upon output of the ID with a single button click. Optionally, outputs can be conformed through InstantOnline III, eliminating any processing from the editor. Writeback to XDCAM® and P2® formats is also available.

NEXIO Global Proxy Integration

When used in conjunction with a NEXIO global proxy system and the Velocity global proxy encoder option, Velocity XNG creates a proxy file simultaneous with the output Edit or Media ID. This allows instant access to the proxy file without burdening a separate global proxy transcoder server. Also, with this option, the global proxy MediaBase can be accessed and configured to view proxy media from multiple locations and storage devices. Using further integration with Invenio® Motion and InstantOnline III, this content can be retrieved and transferred to the local NEXIO SAN for conforming and output.

SPECIFICATIONS

Specifications are subject to change without notice.

Video Compression

SD Firewire Capture	DVCPRO, DVCPRO50 DVCAM (625 only)
SD File Ingest and Editing	DVCPRO, DVCPRO50 DVCAM (625 only) MPEG-2 I-frame: 4:2:0 (4 to 15 Mb/s); 4:2:2 (10 to 50 Mb/s) MPEG-2 long-GOP: 4:2:0 (4 to 15 Mb/s); 4:2:2 (10 to 50 Mb/s) MPEG IMX (30, 40 and 50 Mb/s)
HD Firewire Capture	HDV (25 Mb/s)
HD File Ingest and Editing	MPEG-2 I-frame: 4:2:0 (50, 80 and 100 Mb/s) 4:2:2 (50, 80, 100, 120 and 150 Mb/s) MPEG-2 long-GOP: 4:2:0 (50, 60, 70 and 80 Mb/s) 4:2:2 (50, 70 and 80 Mb/s) HDV (25 Mb/s) XDCAM HD (17.5, 25 and 35 Mb/s) XDCAM HD422 (50 Mb/s) XDCAM EX (25 and 35 Mb/s) DVCPRO HD (100 Mb/s) AVC-Intra (50 and 100 Mb/s)

Native 64-Bit Application

Velocity XNG uses hardware profile calibration to optimize the software based on the current system configuration. Internally, the software is a native 64-bit application, which gives optimized performance, faster renders, improved real-time capabilities and additional stability when used in conjunction with a 64-bit operating system.

Bundled Inscribe TitleMotion GS

Velocity XNG includes the latest Inscribe TitleMotion GS character generator, with support of the SCRIBE file format, as well as reading of the legacy ICG file format. Powered by Inscribe G-Scribe™ titling software, TitleMotion GS includes built-in integration with the Connectus® graphics management system, allowing templates, styles and elements to be shared with other Inscribe G-Scribe-based systems like G5™ and G7™.

Minimum System Requirements

- Intel® Core™ 2 Duo or AMD Turion™ 64 X2 processor (2 GHz dual-core, 4 MB L2 cache, 800 MHz FSB)
- 4 GB RAM (8 GB recommended, especially for shared graphics card memory)
- 512 MB (dedicated or shared memory) graphics card @ 1440x900 (WSXGA or WXGA+)
- 200 GB, 7,200 RPM Ultra ATA, SATA or SAS hard drive
- 2 GB free space on hard drive
- Gigabit Ethernet port
- IEEE 1394 (Firewire) and USB 2.0 ports
- 48 K, 16-bit sound card
- Windows® XP Professional, Windows® XP Professional x64 Edition or Windows® 7

ORDERING INFORMATION

NXA1000XNGES	Velocity XNG software-only field editor
NXA-VEL-UP2	Velocity version 2.0 upgrade
NXA-VEL-GPRXE	Velocity global proxy encoder option
NXEC400	External edit controller
NXFAD	External fader controller