

Aurora Edit 6.0

Fast-Turn Production System

Grass Valley™ products offer the most comprehensive, multi-format solutions for acquisition, production, storage, and playback—and a strong foundation for centralized, proactive status and activity monitoring.

As part of this broad capability, the Grass Valley Aurora™ production solution touches the entire news-production process, from acquisition, ingest, and media browsing, to quick-turn editing, craft editing, and automated layout.

A key component of this solution is Aurora Edit, the fastest nonlinear production tool available for editing broadcast news. Whether high-, standard-, or low-definition (HD, SD, or LD) material, it provides a toolset to quickly triage, shape, and transform a media project.

Available in workstation-, software-, and laptop-based solutions, the Aurora Edit system is a perfect fit in any news operation. It uses standard PC and networking technologies. It features broad format support. And it offers a wide array of options for tailoring the platform to the level of production you need.

To speed your work, not only does the Aurora Edit system eliminate pre-digitizing, but its Realtime Edit™ feature lets you see edits as they're made—doing away with the need to review them. As a result, the system is twice as fast as other nonlinear editing systems.

The Aurora Edit system delivers all of the benefits of nonlinear technology, including instant random access, multiple levels of undo, a real-time transition effects preview option, and the ability to quickly make new versions of existing stories. Editors can also record directly from tape to timeline while performing insert edits, voice-overs, L-shaped cuts, and three-point edits.



For effects, the Aurora Edit system offers a full set of options for producing packages and promos. The system speeds high-production value pieces through its support of real-time dissolves, soft-edge wipes, and color borders. It also offers new options for a range of key-frameable 2D and 3D effects—not just replacing an A/B edit bay but adding a full complement of digital effects capabilities.

The Aurora Edit system also includes a color-correction feature that is especially valuable for hastily shot news footage with improper color balance. It offers voice disguise and blur and mosaic effects for investigative reports and provides interpolated slo-motion effects for the kind of smooth slo-motion sports production demands.

The Aurora Edit platform supports several third-party character-generation solutions, including a Chyron Lyric CG plug-in option that uses pre-formatted templates to store attributes of particular newscasts or programs. Its toolbar includes a CG selection and there is a CG key on the keyboard within easy reach. Selecting the CG feature automatically provides the tools necessary to open a

key features

- Full-featured, highly customizable nonlinear editing tool for news, sports, and production
- Record from tape to timeline and edit directly to timeline without pre-digitizing
- View edits as they are made and without review with Realtime Edit feature
- Seamless integration ENPS, iNews, Octopus, NC Power, and other MOS-compliant newsroom computer systems
- Optional 2D/3D digital effects with luma and chroma key support
- Transitions including dissolves, pushes, slides, and soft-edge wipes
- Blur and mosaic effects for investigative reports
- Color correction for rebalance of improperly shot footage
- Proc amp controls support video- and chroma-level adjustments
- Dynamic audio-levels adjustments
- MP3, CD, and .wav audio file import/export with audio OMF import/export
- Multi-band parametric audio equalizer and a voice-disguise with randomizer
- Top/tail editing to automate multi-track trimming
- Format independence: MPEG-2 up to 100 Mb/s; DV25, DV50, IMX support
- Interpolated slo-motion with real-time preview for smooth, slo-motion effects
- FireWire (IEEE 1394) support for direct camera-to-disk-media import/export
- Supports Grass Valley K2™, Profile® XP Media Platform, and M-Series™ systems
- Support for REV PRO™, P2, XD-CAM removable media
- Transcode between DV and MPEG, SD, and HD

template, enter text, edit text, and change fonts, colors, borders, and perform other operations. There's no need to open a new window or search through menus.

To speed production workflows further, the Aurora Edit system is compatible with the Grass Valley K2 media server/media client system, Profile XP Media Platform system, Network Attached Storage (NAS) and Open Storage Area Network (SAN) system, and M-Series iVDR. These systems let journalists simultaneously view and edit feeds, and edit the same material in different bays simultaneously—even start work on a sequence in one edit bay and finish it in another.

Unmatched Speed and Efficiency

By converging video, graphics, text, and effects on a single workstation, the Aurora Edit system supports the multitasking requirements of news professionals. Taking efficiency a notch higher, it is compatible with low-resolution browsers and editors through its OMF EDL file import.

As a result, journalists can browse and assemble a low-resolution version of a story using, for example, the Aurora Browse desktop-based browsing system, and then pass an EDL to an Aurora Edit system for high-resolution finish editing. This approach significantly streamlines newsroom workflows.

The Aurora Edit system can also access clips captured by the Aurora Ingest system for ingest management—whether a scheduled or interactive feed—to combine media with field footage.

The Aurora Edit system is fully integrated with the K2 platform for resilient and automated playback and upconversion of finished sequences, eliminating the confusion and errors often associated with tape-based playback while providing the flexibility of output formats in real time or permanently rendered files. It can also exchange files with the M-Series iVDR line of intelligent video disc recorders and Profile video servers.

Stretching your newsroom dollars and resources further, the Aurora Edit system offers media object server (MOS) support, letting you integrate it with ENPS, iNews, Octopus, NC Power, and other (MOS) script-enabled applications. A real-time rundown status shows the editor how close to air and where in the rundown their assigned stories really are. And the editor supports an optional second VGA monitor as well as 16:9 and 4:3 aspect ratios.

Taken together, these capabilities create an advanced solution that can link your entire news production process—from rundown to script to edit to playback. With this level of integration, producers and editors can access assets, view rundowns, read scripts, and edit video all on a single PC, making it easier, faster, and more efficient to bring breaking news to air.

An Intuitive Interface

The Aurora Edit interface is incredibly intuitive and has a number of features, tools, and technologies to streamline production workflows.

Aurora Edit – Audio/Video Formats

Aurora Edit Series Video I/O	Input					Output					
	SDI	Composite	Component	S-Video	FireWire (IEEE 1394)	SDI	Composite	Component	S-Video	FireWire (IEEE 1394)	Dual VGA
AURORA-EDIT-LD											○
AURORA-EDIT-SD					○					○	○
AURORA-EDIT-HD					○					○	○
AURORA-EDIT-SDR	✓	✓	✓	✓	○	✓	✓	✓	✓	○	○
AURORA-EDIT-HDR	✓	□	□	□	○	✓	□	✓	□	○	○
AURORA-EDIT-SDX *	✓	✓	✓	✓	○	✓	✓	✓	✓	○	○
AURORA-EDIT-HDX *	✓				○	✓		✓		○	○

✓ SD/HD □ SD only ○ PC

Aurora Edit Series Audio I/O	Input					Output				
	SDI Embedded	AES-XLR	AES-BNC	ANALOG-XLR	ANALOG-RCA	SDI Embedded	AES-XLR	AES-BNC	ANALOG-XLR	ANALOG-RCA
AURORA-EDIT-LD					PC					PC
AURORA-EDIT-SD					PC					PC
AURORA-EDIT-HD					PC					PC
AURORA-EDIT-SDR	6	2/1	2/1	2	PC	6	2/1	2/1	2	2
AURORA-EDIT-HDR	8	2/1	2/1	2	PC	8	2/1	2/1	2	2
AURORA-EDIT-SDX *	8			2	2	8			2	2
AURORA-EDIT-HDX *	8	4/2				8	8/4		2	

* Version 6.3, available Q4 2006

Aurora System Comparison

	Aurora Edit SDX/HDX	Aurora Edit SDR/HDR	Aurora Edit SD/HD
Codec	Hardware Targa 3K	Software	Software
Platform	Tower or Rack	Tower or Rack	Rack, Tower, or Laptop
Media Formats NTSC	DV, DVCAM, DVCPRO + MPEG, IMX	DV, DVCAM, DVCPRO + MPEG, IMX	DV, DVCAM, DVCPRO + MPEG, IMX
Media Formats PAL	DV, DVCAM, DVCPRO + MPEG, IMX	DV, DVCAM, DVCPRO + MPEG, IMX	DV, DVCAM, DVCPRO + MPEG, IMX
Max. Data Rate	50 Mb/s – 100 Mb/s	50 Mb/s – 100 Mb/s	50 Mb/s – 100 Mb/s
BOB Required (Break Out Box)	Yes	Yes	No (IEEE 1394A FireWire)
Ethernet Workgroup	Yes	Yes	Yes
Fibre Channel Option	Yes	Yes	No
GXF/MXF	Yes	Yes	Yes
Color Correction and 2D Support	Yes	Yes	Yes
3D Support	Yes	No	No
Tilting Options	Yes	Yes	Yes
Cuts and Transitions	Yes	Yes	Yes

Media Bin

Used for organizing clips and storyboarding packages, you can view bins in either thumbnail or tree mode. You can also quickly sort and sift them by name, duration, description, and other familiar database categories.

Timeline

The timeline lets you view an entire story while editing. It supports two tracks of video plus graphics and titles and up to eight tracks of audio. You can record clips and voiceovers directly to the timeline or import them from the media bin. From within the timeline, you can trim clips with frame accuracy or split, move, or reorder them. And you can preview easily real-time effects, such as audio crossfades, dissolves, and wipes.

Video Window

The video window lets you view media being recorded or played back. When performing trim edits, two or more windows display the in and out points of consecutive clips. Because it records and plays back simultaneously, the Aurora Edit system can imitate a record deck's PB/EE insert-edit capability. It is the only nonlinear editing application to retain this familiar tape-editing convention.

Real-Time Transition Preview

This tool provides a real-time transition preview with dissolves, wipes (with edge softness), pushes, and slides.

Audio Metering and Control

With the ability to monitor and control up to four audio inputs and outputs as well up to eight tracks of audio on the timeline, the Aurora Edit system delivers greater control of audio editing and playout. Each channel has an audio slider, pan adjustment, mute control, and soloing option. You can make audio adjustments to an entire sequence, track, clip, or just a single frame.

Enhanced Audio Capabilities

Greatly enhancing the Aurora Edit system's audio capabilities is its built-in support for up to four in, eight mixed, and four out audio channels.

In addition, the editor features audio-input metering and level control for accurate audio editing and playout, and audio scrubbing and routing from source to timeline. With the addition of audio EQ, editors can fix audio problems and add audio effects, including three-band, applied-on-input (destructive), and applied-on-clip (non-destructive) effects. And the

system's drag-and-drop audio feature enables you to quickly and easily move audio clips between tracks.

Additionally, the Aurora Edit system offers an optional audio mixer with four moving faders that link to the audio timeline for accurate audio mixing.

Editing Features

In addition to its ability to record directly to the timeline and display edits as they're made, the Aurora Edit system has a number of state-of-the-art editing features, including:

- *Audio/video punch-in – Toggle individual video and audio tracks on/off while recording. Perfect for performing L-cuts on the fly*
- *Trimmer window – Trims clip in/out points with frame accuracy. Clip trimmer can be accessed via media bin or timeline views*
- *Overwrite and splice-edit modes – Overwrite mode performs like an insert mode edit in tape-to-tape editing; split mode inserts a new clip between two existing clips*
- *Real-time transitions – Cuts, dissolves, pushes, slides, and SMPTE-compliant wipes, color correction, and 2D options*
- *Import/export – .avi, .mov, SMPTE 360M (GXF), and MXF files*
- *Transcode to/from capabilities – MPEG, DV, and Windows Media 9*
- *Waveform tool – Quickly locate start of audio or audio transients*
- *Batch capture, CMX EDL import/export*
- *Graphics export – PSD, BMP, TIFF, JPG, TGA*
- *CG options – Chyron Lyric and VizRT options*
- *Fit-to-fill – Lets you insert video, including still frames, fill frames, or variable-speed clips into an existing hole in a story timeline*
- *Interpolated slo-motion – Smooth slow-motion effects with real-time preview*
- *Cut-point tool – Trim the cut point of two consecutive clips. Perfect for ending L-cuts and adding space between two butted sound bites*
- *Knife tool – Splits a clip that exists in the timeline. Perfect for handling clips that contain multiple good shots or for removing undesired material*
- *NRCS Integration – Display ENPS and iNews scripts and rundowns within the Aurora Edit GUI. The Aurora Edit system and an NRCS application can run on the same PC. Compatibility with low-resolution browsers and editors available through OMF EDL file import*
- *Mark In/Mark Out – Marks in and out points for clips in timeline, trimmer window, or on tape source*
- *Transcode to bin/timeline – Transcode media between source media (DV, MPEG, JPEG 2000, HDV, XDCAM-HD) to a selected timeline standard (DV or MPEG in SD or HD)*

Ordering Information

AURORA-EDIT-LD Aurora Edit LD software-only package	Titling Options AURORA-EDIT-CHY Basic Chyron titling
AURORA-EDIT-SD Aurora Edit SD software-only package	AURORA-EDIT-CHYADV Advanced Chyron titling option with template tool
AURORA-EDIT-HD Aurora Edit HD software-only package	Control Options AURORA-EDIT-CTRL Edit controller and jog/shuttle knob (requires RS-422 port)
AURORA-EDIT-SDPC Aurora Edit SD base PC	AURORA-EDIT-FADE4U Four-channel moving fader MIDI mixer controller with USB interface
AURORA-EDIT-HDPC Aurora Edit HD base PC	AURORA-EDIT-5PJOY 3D joystick and five-parameter controller
AURORA-EDIT-73GX2 2X 73 GB SCSI drive stripe set	Accessory Options AURORA-EDIT-QWERTY USB QWERTY keyboard – color coded
AURORA-EDIT-146GX2 2X 146 GB SCSI drive stripe set	AURORA-EDIT-AZERTY USB AZERTY keyboard – color coded
AURORA-EDIT-300GX2 2X 300 GB SCSI drive stripe set	AURORA-EDIT-422-RS RS-232-to-RS-422 translation cable for machine control
AURORA-EDIT-PCRK Aurora PC rack kit	Network Interface Options AURORA-EDIT-422-2X RS-422 card – two port
AURORA-EDIT-SDLT Aurora Edit laptop with SD software	AURORA-EDIT-1394 FireWire (IEEE 1394) PCI interface
AURORA-EDIT-SDR SD SDI and analog I/O channel for Aurora SD system	AURORA-EDIT-GIGEX1 Gigabit Ethernet network interface – RJ-45 termination
AURORA-EDIT-HDR HD SDI and analog I/O channel for Aurora HD system	AURORA-EDIT-GIGEX2 Dual-port Gigabit Ethernet network interface – RJ-45 termination
AURORA-EDIT-SDX SDI – SD real-time input/output with SD breakout box (BOB)	Speakers and Display AURORA-MONITOR-M 19-inch LCD user interface monitor
AURORA-EDIT-HDX SDI – HD real-time input/output with HD BOB	
AURORA-EDIT-COFX SDI – SD/HD co-processor card 2D/3D effects for SDX/HDX	
AURORA-EDIT-NASLIC Aurora Share license – per edit station	

Specifications

Standard Configuration <ul style="list-style-type: none"> • HP 9300/9400 with single or dual AMD 2.6 GHz dual core processor, 1-2 GB RAM, 80 GB SATA system drive, CDRW-DVD drive, custom PS/2 keyboard and mouse, and dual 10K SCSI media drives • 6-slot PCI, PCI-X, PCIe platform • Multi-format compression engine • NVidia 1500 graphics card • Dual Gigabit Ethernet network interface • Windows XP operating system 	Compression: SD/HD MPEG-2, 4:2:2, user-selectable compression bit rates up to 100 Mb/s, DV25, and DV50
Video NTSC: 525/59.94 (240, 248, or 256 active lines per field) PAL: 625/50 (288 active lines per field) Inputs: <ul style="list-style-type: none"> • Composite: Y, R-Y, B-Y • Component: S-VHS, CCIR 601 serial digital Outputs: <ul style="list-style-type: none"> • Composite: Y, R-Y, B-Y • Component: S-VHS, CCIR 601 serial digital 	Audio 48 kHz 16-bit PCM, uncompressed Inputs: 2- or 4-channel, balanced, unbalanced AES/EBU, SDI embedded TDIFF Outputs: 2- or 4-channel, balanced, unbalanced, AES/EBU, SDI embedded, TDIFF
	Physical Dimensions Chassis: floor standing tower or standard EIA rack mount <ul style="list-style-type: none"> • Height: 17.8 cm (7.0 in.) • Width: 48.3 cm (19.0 in.) • Depth: 53.0 cm (20.8 in) Power Requirements Voltage: switch selectable: 120V @ 6.2A or 240V @ 3.1A Frequency: 47-63 Hz

Support Services & Training

The Grass Valley Support Services & Training team delivers complete service solutions that enhance your return on Grass Valley products and global systems solutions. Advanced training and proactive support, by reducing down time, keeps your equipment and staff performing at optimum productivity and quality.

Our pre-packaged suite of SupportPRO Services provides support through the whole process:

- StartPRO Commissioning Support
- Factory, On-Site and Web Training Classes
- TechPRO On-Site and Comprehensive Software and Hardware Support
- ServicePRO Comprehensive Software and Hardware Support
- PartsPRO Advanced Exchange Hardware Support
- Critical Spares Kits for Most Products

For specific requests, our worldwide experienced Support Services & Training experts can build and assist you with customized solutions.

For more information contact your authorized Grass Valley representative or visit us online at www.thomsongrassvalley.com/support.

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