



# XTV Suite

TV Automation Suite

## >> A Full Set of Software for TV Broadcast Automation

XTV Suite is a professional Suite for TV Broadcast Automation which manages Video Playout, Capture, Trimming, Scheduling and CG. Granting automatic and unattended efficiency 24x7 XTV is the perfect tool for TV stations, Satellite Channels, Cable TV, News Room, Web TV, CCTV as well as Corporate TV, hotel pay TV can use it and take advantage of its user-friendly interface. XTV Channel In A Box (CIAB) architecture guarantees a linear scalability of your TV Playout facility. XTV Suite supports SDI (HD, 4K, 8K), IP I/O such as NDI, SMPTE 2022 & SMPTE 2110 (with specific video cards), UDP, RTMP, HLS, RTSP and more. Now also ready for Cloud with the latest XTV Cloud release!



XPLAYOUT



XINGEST



XTRIMMER



XSCHEDULER



CG COMPOSER



# // Overview

## General

- All in one broadcast 4K – 2K – HD – SD playback
- Complete workflow management tools: scheduling, trimming, graphic composer
- Real-time capture from SDI-NDI-IP
- Multiple codec playback in the same playlist with resolution and frame rate automatic adaptation
- Multiple format playback, automatic up/down scaling and aspect ratio adjustment (16/9, 4/3, etc...)
- File sharing on LAN architecture
- Direct file playback from NLE (no transcoding)
- Up to 16 audio channels management
- Simultaneous NDI output
- Direct streaming output transport stream MPEG2 and H.264 codec, or RTMP
- Automatic management of time during playback (delay/ahead) with filler
- Live source full handling inside the playlist control of VTR, Switcher, GPI to Cart Machine
- Multichannel and high availability configurations
- Hot Key feature for instant videos playback
- Graphic overlay: logos, clocks, tickers, animations
- High quality squeezeback with animated background
- Subtitles in overlay and Closed Caption
- Clip trimming and Metadata for advertisement graphic contents
- Support of SCTE-104 and SCTE-35 commands for AD Insertion
- Support of EAS (Emergency Alert System)
- User friendly playlist view with explicative colour scheme
- As run and system logs for certification

## XTV Suite includes:

- XPlayout > 24x7 Automation
- XIngest > real-time capture from SDI-NDI-IP

## Free tools included in XTV Suite:

- XTrimmer > Metadata injector and quality control
- XScheduler > Offline playlist management
- CGComposer > CG template creator
- XLogsViewer > As run logs viewer
- XInfo > Playlist information display
- XRouter > Routing switcher sharing on LAN
- XRemote > Remote control or routing switcher
- XEmergency > N+1 playback redundancy (needs XPlayout licence)

## Versions

- XTV Suite (Software for 1 Playback + 1 Ingest)
- XTV Compact (Software+Hardware for 1 Playback + 1 Ingest)
- XPlayout (Software for 1 Playback)
- XPlayout Compact (Software+Hardware for 1 Playback)
- XIngest (Software for 1 Ingest)
- XIngest Compact (Software+Hardware for 1 Ingest)

## XTV Cloud

The new version designed to be installed on physical or Virtual Machines, both at your own data center or at your favorite Cloud Provider's premises. XTV Cloud requires a Windows Server Operating System and a hardware configuration with enough performance to act as a Video Server with IP based I/O. Access to the Playback and Management Applications is achieved using RDP over HTML technology through any web browser on any operating system and device. User interface is automatically scaled to the device being used and up to three simultaneous users can connect allowing control of the Playback, Media Upload, Trimming and Playlist Management

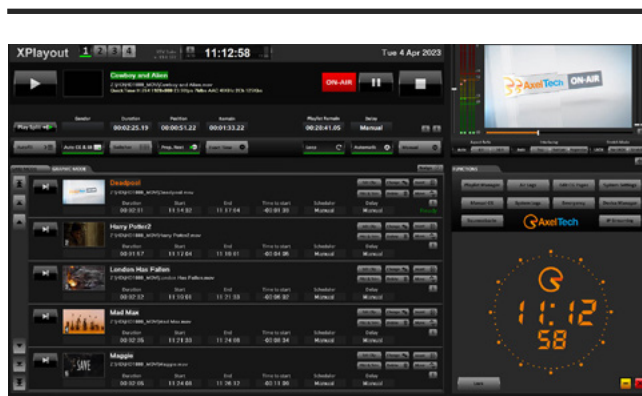
at the same time.

Audio Monitoring and preview is also passed directly through the web browser allowing a seamless user experience.

Final IP output can be configured in many formats including RTMP, SRT, HLS, DASH, etc... and scaled as desired, while SCTE-35 triggers are available in SRT, UDP, HLS embedded in the video stream (not in the manifest file).

Live inputs can be configured to receive IP streams from the studio or outside broadcasts and are displayed on the Playback Multiviewer with on-screen vu meters and audio preview on the web browser.

Among the available formats you'll find WebRTC: high quality and low latency assured plus the chance to use an AxelTech MXC as an encoder. The popular SRT format can also be used, encoding from a Vmix Software or a hardware box.



XPlayout intuitive GUI



XTrimmer free tool



For more information about XTV Suite, visit our website



# // Specifications

## XPlayout

- Supported Video Cards: Blackmagic Design DeckLink and Intensity, AJA Corvid, Bluefish
- Resolutions: SD, HD, 2K, 4K (depending on AV card)
- Simultaneous NDI output
- Simultaneous WebRTC output
- Preview output on SDI
- Up to 16 Audio channels
- Timecode rp188
- Virtual device emulation for use as capture device in 3rd party software
- Split CG layer on separate SDI or NDI in Key and Fill
- SDI or NDI inputs for LIVE sources in AV bypass
- Internal Digital Loudness processor ITU 1770 available on XPlayout to always get the right volume on the output

## GUI

- Full screen GUI optimized for 1920x1080 monitor
- Channel Alias
- Preview framerate adjust for RDP optimization
- CC preview
- Drag and Drop of multiple files
- Single clip position duration and position display
- Total playlist duration and remain display
- First frame positioning
- Dual graphical or grid style playlist GUI
- Drag and Drop to GUI
- OSD vu-meters and waveform
- Realtime video preview
- GUI lock with password
- Customer Logo on main screen
- Colors according to file gender or status

## Features

- Virtually any video and file format compatibility
- Automatic upscale, downscale, framerate adaptation and aspect ratio correction
- CG overlay
- Key output on SDI with 32 bits QuickTime Anim, QuickTime ProRes 4:4:4:4, bitmap sequence
- As run logs
- Log files
- VGA compatibility mode for old VGA cards
- Separate audio track file management
- Remote control of Blackmagic Design ATEM and NewTek TriCaster
- MarkIn and MarkOut management (triggering)
- Frame accurate loops REC while PLAY (for specific formats) with endless MarkOut
- Realtime Vertical and Horizontal Crop
- Realtime field swap: top bottom progressive
- Realtime aspect ratio correction mode: Letterbox, no letterbox, stretch
- Detailed info on playlist, preview and output status
- AGC – Automatic Gain Control
- Automatic switch on backup path in case of main path failure
- Automatic play from preferred path if same media copy is available
- Status file and thumbnail update of main output
- Autofill from folder when ahead of time or end of playlist
- Automatic load of playlist according to file syntax
- Emergency file with hotkeys, also with numeric keyboard
- Automatic load of last playlist at start-up
- Routing switcher remote control : Blackmagic Design ATEM and Videohub, NewTek TriCaster, any RS232 or RS422 routing switcher or master control
- VCR automation UVW, VP9xxx or and RS422 SONY
- Cart machine control: PROMATIC, DIGICART

- Fast CG for emergencies: clock, text and crawl
- Automatic CG according to file gender or user custom types
- Remote control of external CG
- Integrated master and slave workflow
- From 5 seconds to 1 day delay for SDI/NDI sources as time shifting
- Subtitle rendering for SRT files
- Advanced CG with clocks, tickers, rolls, crawls, bitmap animations, any video file format
- 2D Squeezeback with advanced background graphics layer
- All CG graphics as secondary events
- GPI in/out
- Automatic skip/cut if schedule is late
- Exact time management in cut/wait for end of current event
- CG composing tool for template creation
- Non-intrusive sub clip creation for advertisement insertion
- Crossfade/effects between files
- Traffic scheduling tool
- Quality control tool with SDI/NDI output, metadata insertion and loudness control
- Automatic media copy tool from NAS to local hard disk (optional)
- Automatic music playlist creator (optional)

# // Specifications

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## Video Codecs

- MPEG 4 part 2
- Cisco OpenH264
- Intel Quicksync H264
- Nvidia NVEnc H264
- Nvidia NVEnc H264 lossless
- Nvidia NVEnc H265
- MPEG 1
- MPEG 2
- DV
- DVCPRO
- MJPEG
- FLV Sorenson
- HuffYUV
- WMV 8
- Google VP8

- Apple Prores proxy, LT, 422, HQ
- QuickTime ANIM
- Uncompressed 422 8-bit
- Uncompressed 422 10-bit
- DNxHD
- VC3
- OPEN JPEG2000
- DPX

## File format wrappers

- Mpeg Program (MPG)
- Mpeg Transport (TS)
- MPEG4 part 14 (MP4)
- QuickTime (MOV)
- DNxHD (MOV)
- IMX MPEG4
- MXF
- MXF D-10 (IMX)
- GXF
- DV
- FLV
- DVD VOB
- ASF
- iPod Mp4
- AVI
- Matroska (MKV)
- WebM
- Image Sequence (DPX, PNG, JPG)

## Audio codecs

- WAV (16, 24, 32, Cinema, signed, floating etc)
- MP2
- MP3
- AC3 (ATSC A/52A)
- AAC
- ALAC
- ADCPM
- VORBIS

## Hardware Requirements

### Suggested

- I7 8700K CPU
- Windows 10
- 16GB RAM
- NVidia GTX

### Minimum

- I3 CPU
- Windows 7
- 4GB RAM

### Hardware requirements depend on:

- Video capture resolution
- Video codec format
- Number of simultaneous capture/streaming/proxy

**We recommend to check the requirements with your Sales Area Manager before to proceed**