

## BROADCAST TV AUTOMATION

- PLAYOUT
- CAPTURE
- TRIMMING
- SCHEDULING



# XTV

## Multiformat PlayOut SD/HD

- For TV stations, Satellite Channels, Cable TV, News Room, IPTV, CCTV, Corporate TV, Presentation, etc.
- All in one Broadcast Playout, Capture, Trimming and Scheduling, Routing, Failover Recovery
- Simultaneous multiformat playout: DV, HDV, MPEG-2, DVD, DIVX, MPEG-4, M-JPEG, MPEG-1, H.264, WMV, QuickTime, MXF, etc.
- Graphics and transition effects
- VTR, Switcher, GPI and Cart Machine control
- Direct file playout from all NLE systems
- File sharing on LAN architecture
- Multichannel and high availability configurations

# XDTV Automation System

XTV Suite is a **professional complete set** of software tools for TV stations which manages from video capture, trimming, scheduling to playout. Completely automatic unattended operativity **24/7**.

**XTV** is perfect for TV stations, Satellite Channels, Cable TV, News Room, Web TV, CCTV, Corporate TV, Presentation, hotel pay tv channels, office presentation, museums info channels, video wall display, which can take advantages of its **ease of use**. At the same time multi-channel tv stations and tv networks can enjoy XTV's scalable structure and universal file compatibility.

Digital video hardware and software producers adopt their own proprietary or preferred standard, a universal video file format does not actually exist. XTV is designed to achieve a true **'universal format' compatibility** and provides broadcasters with a powerful tool which can virtually play all media format from any source or feed.

XTV makes video workflow, **from capture to playout**, even more seamless and direct. XTV ties together all production departments allowing direct playout of DV, HDV, MPEG-2, DVD, DIVX, MPEG-4, M-JPEG, MPEG-1, H.264, QuickTime, MXF, etc. in any resolution or framerate.

XTV playout also **controls external devices** such as VTRs, routing switchers, cart machines and GPIs. Playlist may include external sources from feeds or live production studios and are sequenced together with cassettes and DVDs.

Playout is always frame accurate featuring **seamless cuts** between clips or fades, wipes and other **transitions**. Internal **logo** management and automation are included. Dynamic playlist allows "last second" changes to the schedule.

**Axel Technology**  
20 years of unrivaled experience in the  
TV and Radio Broadcast field  
Thousands of installations around the  
world



## XTV Broadcaster advantages

- Perfect integration with video editing stations in use, old or new ones
- Extremely user friendly, no training needed, fast installation
- Easily expandable
- Highly reliable
- Compatible with future media formats

**XTV users** : TV stations, Satellite Channels, Cable TV, News Room, Web TV, CCTV, Corporate TV, Presentation, hotel pay tv channels, museums info channels, video wall display, etc.

**Media Compatibility** : Play out any kind of media in any resolution: DV, HDV, MPEG-2, DVD, DIVX, MPEG-4, M-JPEG, MPEG-1, H.264, QuickTime, MXF, etc.

**Hardware Compatibility** : VGA, BlackMagic, DV FireWire 1394, IP streaming or any windows DirectShow device.

**Dynamic Playlist** : Real time playlist management without black frames nor freezes. Last minute changes, replacements, or trimming of any clip, including logo and transition properties. Tape based and live events are sequenced in the playlist through control of VCRs, routing switchers and GPIs.

**Advanced Scheduler** : Unlimited playlist length with automatic clip skipping and cutting when late. Duration stretching when ahead of time. Sequence Loop.

**Log Report** : Status and playout logging, with XML export for easy processing and printing.

**No Database** : Metadata is saved directly into media file, allowing file rename, copying and moving.

**Multiformat Media benefits** : XTV allows to adopt and mix any media format according to broadcaster's production workflow and pros and cons of each AV codec.

For example:

- News, field produced in DV and edited in native format
- NLE productions with Premiere, Final Cut, Avid, Edius, Liquid, VT, etc.. No conversion is needed allowing fast export times
- Movies and fiction on DVD and played out from VOB files
- Live satellite or studio feeds captured in DIVX high quality or traditional MPEG2 IBP
- Spot commercials and promos received on CDs or via internet in various formats

## XPLAYOUT

*multiformat automation engine*



- Compatible with all media formats SD and HD
- Instantly play files from any NLE system
- Automatic resolution and framerate scaling
- Playout tapes and live feeds with routing switchers, VCRs, cart machines and GPI control
- Dynamic playlist management for last minute changes
- Automatic clip skipping, trimming and stretching for accurate timed events
- Output on PAL/NTSC video and streaming over IP
- Manual, automatic and spot/jingle machine playout mode
- Frame accurate with transition effects and logo / graphic superimposing

## XCAPTURE

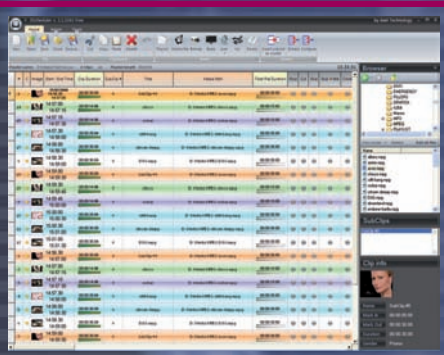
*digital audio/video recording module*



- Real time AVI capture in various formats selectable from DV to DIVX or MPEG.
- Composite, Component, S-Video and SDI input, according to installed hardware
- Time scheduled capture
- User selectable field inversion of interlaced video
- Input signal monitoring with audio level adjustment

## XSCHEULER

*offline playlist editor*



- Playlist management and editing - **FREEWARE**
- Allows program editors to create or edit schedules many days / weeks in advance
- Runs on networked PCs, no need for specific hardware
- Insertion of spots, promos, movies, video clips, news, etc.
- Media browsing and viewing on local network
- Advanced features: text search, cut, copy, paste, replace, multi selection editing, printing, exporting, undo/redo, drag & drop from clip explorer/browser
- Integrated with Xtrimmer for instant metadata modifications

## XTRIMMER

*metadata media editor*



- Offline Media Editor for metadata entry and clip splitting/segmenting - **FREEWARE**
- Clip ID entry: name, category, notes, subclip, duration, mark in, mark out and reference image
- Install on all NLEs and capturing workstation or any other networked PC, with no specific hardware
- Clip splitting for advertisement breaks insertion
- Metadata is saved into media file allowing renaming, copying and moving

## XEMERGENCY

*failover recovery*



## XROUTER

*routing switcher remote control*



## XREMOTE

*routing switcher sharing*

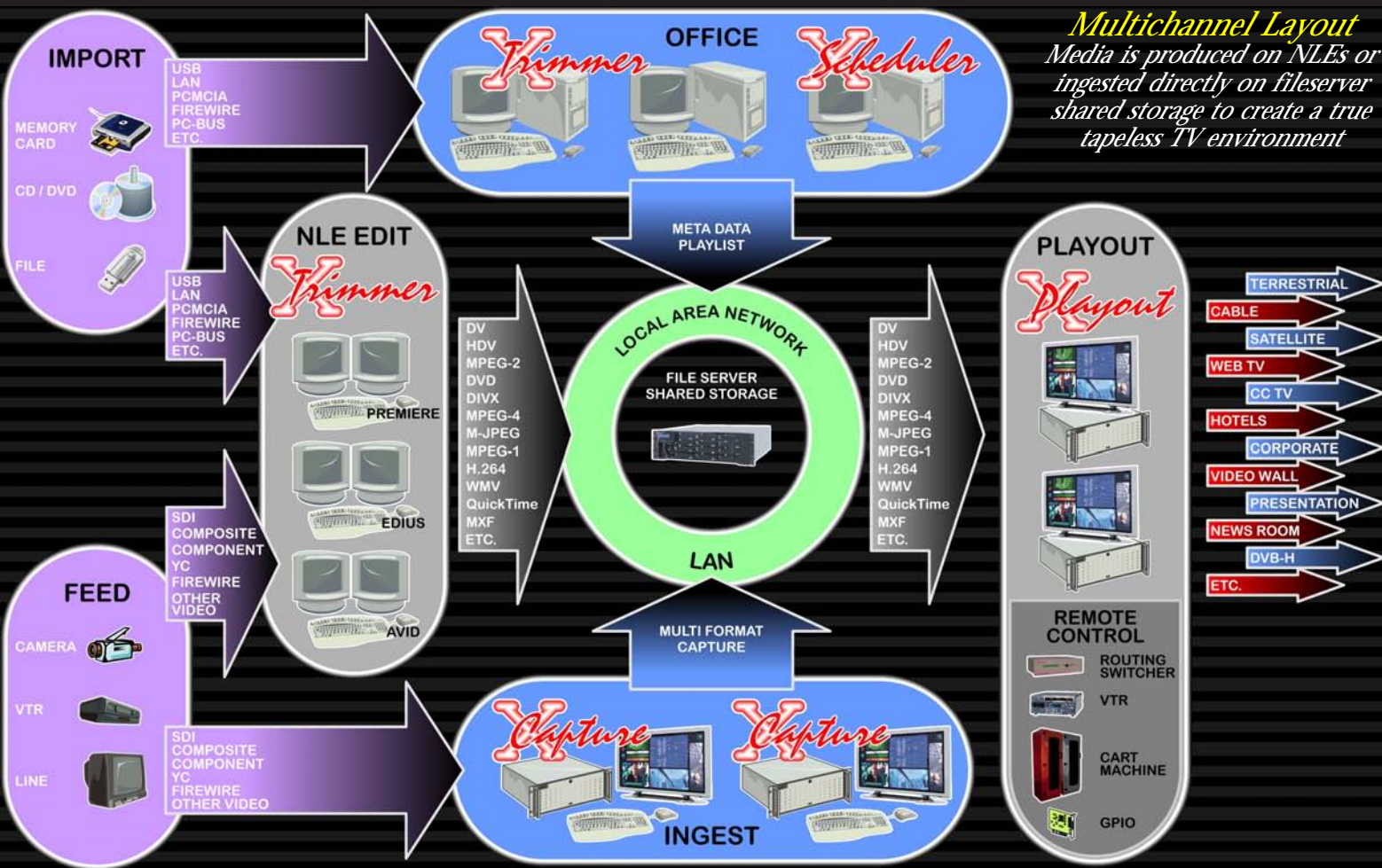


## XSTATUS

*XPlayout remote status*



**Multichannel Layout**  
Media is produced on NLEs or ingested directly on fileserver shared storage to create a true tapeless TV environment



**Single Channel Layout**  
for small TVs or demo room  
Media is produced on any NLE and saved directly on playout local storage though LAN connection



### TECHNICAL SPECS

Operating System	Microsoft Windows XP SP2
CPU	Intel Pentium 4 Dual Core minimum
RAM	1 GB
VGA	1280x1024, 24bits
A/V capture device	BlackMagic DeckLink
Audio Board	Windows compatible audio card
Suggested HD / security	SATA grade 1 / RAID 5
Output Video cards	BlackMagic DeckLink, DV (E1394 Firewire), Matrox G series; ATI X series, BlueFish, or any other Windows compatible AV device
Video Formats	DV, HDV, MPEG-2, DVD, DIVX, MPEG-4, M-JPEG, MPEG-1, H.264, Quicktime, WMV, MXF
Controlled VCR	Sony VP9000 Umatic on RS 232; Sony UVW 1200 Betacam on RS 232; Generic Sony RS 422 device protocol
Cart-Machine	Digi-Cart Multiformat on RS 232
Routing Switcher	Self customizable protocol on RS 232 / 422
GPI	PCI card 8 IN and 8 OUT

Technical specs in this leaflet are provided for information purpose only and are subject to change without further notification.