



Running as a stand-alone solution or in a Channel-in-a-Box configuration, X-Pert Playout provides the necessary playout automation processes, needed in today's broadcast facilities. Its modular architecture makes it suitable not only for broadcasting organizations of any size but for media professionals who need seamless content playout automation. Available in UHD/HD/SD-SDI or IP streaming, X-Pert Playout secures unattended operations 24 hours a day, 7 days a week.

MAIN FEATURES

- Seamless 4K playout with CG branding (It is hardware dependent on the broadcast board used)
- Collapsible playlist
- User definable interface
- Every clip in the playlist (except the one which is currently playing) can be trimmed, edited or re-positioned
- Multi Parallel Output (MPO): X-Pert Playout MPO enables the running of two or more outputs so that broadcasters can easily provide parallel outputs in any combination needed to deliver the content. SD/HD-SDI (with real-time rescaling) and IP streaming
- Multi-channel multi-language audio and subtitling capabilities
- Loudness control
- Simultaneous video scaling of both live input and playlist output
- Mixing different media formats, frame rates and resolutions in a single playlist
- Playback of clips still being ingested
- Playlist order can be changed on-the-fly with commands like skip to next or jump. Such order changes are performed seamlessly without stopping the current playout session
- Live products are facilitated by the powerful Live Show Clipboard which allows insertion and/or execution of various events or live streams
- For automated playout X-Pert Playout allows fixed-time scheduling of items inside playlist for weeks ahead.
- Third party device control
- Detailed Playout Log
- Can be controlled by external automation via: GPI or DTMF, VDCP
- X-Pert Playout SDK.

NEW FEATURES

- Intel QSV hardware accelerated MPEG2/H264/HEVC Decoding and MPEG2/H264/HEVC Encoding
- SCTE35 Triggers reading and generation over IP UDP transport stream
- SCTE104 Triggers Reading And Generation Over SDI Outputs (Decklink, AJA, Deltacast)
- MPEG-Dash Dynamic Adaptive Streaming Over HTTP Output
- HLS HTTP Live Streaming IP Output
- Matroska Multimedia Container (.MKV) Content Supported In Playlist
- Nvidia VGA hardware acceleration support for H264/AVC and H265/HEVC Decoding
- Targeted Time Code Information to Specific IP Address
- Support of audio-only content in X-Pert Playout, for radio, music and informative channels playout automation purposes
- Support of encrypted audio and/or video content in X-Pert Playout
- Fast forward feature to provide with more time for commercial in 24 hours standard scheduled playlist, for movie channels purposes.
- Grayscale option per output



Specifications

- X-Pert Playout supports MPEG1/2/H.264, HDV and DV streams from virtually every known production platform providing AVI, MPEG, WMV, Quick Time or MXF content. Files from third-party servers such as Leitch or Seachange are natively supported.
- Dolby Digital Plus and Dolby E audio media playback and output (optional).

Video

Compression	MPEG2, WMV/VC1, MPEG1, MPEG4 AVC/H.264, JPEG 200, AVC-Intra, Apple ProRes 422, DV, HDV, DVC Pro, DVCPro 50, DVCPro HD
Format	PAL NTSC 1080i HD 720p HD 1080p HD 2160p 4K
Bitrate	1-15 Mbit/s in MPEG2 MP@ML; 1-50 Mbit/s in MPEG2 422P@ML; 1-80 Mbit/s in MPEG2 MP@HL; 25 Mbit/s with HDV and DV; up to 80 Mbit/s MPEG2 HD HP@HL; up to 40 Mbit/s AVC/H.264 Baseline/Main; up to 80 Mbit/s AVC/H.264 Main/High; class 50 and 100 AVC-Intra
Color sampling	4:2:0 - MPEG Main Profile (inc. HDV); 4:2:2 - MPEG2 4:2:2 Profile; 4:2:0/ 4:1:1 - DV 25 Mbit/s; 4:2:0 - WMV and AVC; 4:2:2 - Apple ProRes; 4:2:0 - AVC-Intra

Audio

Compression	MPEG audio Layer 1 or 2; AAC audio; Uncompressed PCM; Windows Media Audio; Dolby Digital (AC3)
Bitrate(MPEG audio)	64-384 Kbit/sec
Sampling	48 kHz

Media File Formats

MPEG2	MPEG (Program Stream); M2P (Program Stream); M2T (Transport Stream); MXF; GXF TS (Transport Stream) Open DML AVI and WAV (mono and stereo); Quick time; MKV;
DV	OpenDML Type 1 and Type 2 AVI; QuickTime; DV; MXF; GXF
HDV	MPEG (Transport Stream); M2T/ TS (Transport Stream); QuickTime; MXF; GXF;
H.256/HEVC	MPEG (Transport Stream); M2T/ TS (Transport Stream); MKV;
H.264 / AVC / MPEG4 part 10	TS - Transport Stream (SPTS and MPTS); MKV;
WMV / VC-1	WMV
MPEG1	MPEG - System Stream

Supported Video Boards

DeckLink	DeckLink Duo; DeckLink 4K Extreme; DeckLink 4K Pro; DeckLink 4K Extreme; DeckLink SDI 4K; DeckLink Studio 4K;
AJA	Corvid 3G; Corvid 11, Corvid 22, Corvid 44; Corvid 88;
DeltaCast	Delta-3G-elp-11, Delta-3G-elp-22, DELTA-3G-elp-key 11, DELTA-3G-elp-key 22

Minimum System Requirements

CPU	Single Intel Core i7 CPU; Dual Intel Xeon CPU
RAM	16 gigabyte (GB) RAM (single CPU); 32 gigabyte (GB) RAM (dual CPU)
HDD	500 MB available hard disk space for installation

Recommended System Requirements

X-Pert	SuperMicro SINGLE channel server, SuperMicro DUAL channel server
HP	Hpz230, HPz640, HPz840;
DELL	Power Edge R710; Power Edge R720;

