

The XP4000 Video Player – Square One for Ultra HD



Begin your Ultra HD journey with a pristine quality video source

If you're considering launching Ultra HD services and are setting up a UHD/4K test facility, then your starting point needs to be a reliable player of Ultra HD baseband video.

The Xylostream XP4000 delivers Ultra HD baseband video

Whether it's presenting the potential of Ultra HD, comparing encoder performance or setting up an end to end trial, the XP4000 provides a straightforward, low cost solution that meets your requirements. It can be used in a broad range of applications where a source of pristine uncompressed reference material is required, such as:

- Laboratory use for broadcast equipment development. The XP4000 enables baseband Ultra HD video to be used in the laboratory in a cost effective way, leveraging Xylostream's experience in building Ultra HD test systems.
- As a test source for operators evaluating encoders or other broadcast equipment. Here the XP4000 can be used to enable operators to carry out side by side tests of competing encoders to make sure that the best encoder for the application is selected.
- Playout source for initial test services and trial channels. Get your Ultra HD test channel on air fast using the XP4000 as the video source.
- On screen playback for review of content quality and for visual inspection of recorded material
- Playout where desire for pristine video quality requires uncompressed video. If you need the best possible video quality for your event or demonstration use the XP4000 to deliver uncompressed video.

Optional additional features for your XP4000 include:

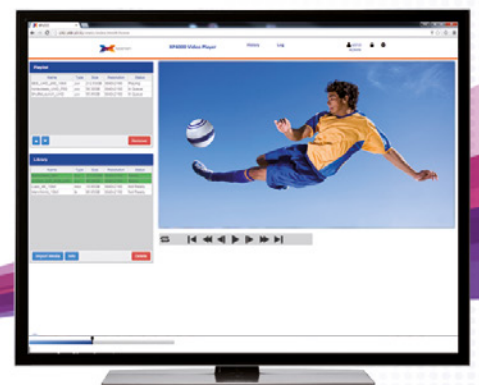
- Logo insertion
- File record, allowing the crash recording of a 4 x 3G-SDI input feed
- Video Compare function allowing the playback of two files side by side with adjustable split position and "Sync-Up" function
- Analysis markers and overlays to help highlight and track video artefacts

Product Highlights

- **Playout over 4 x 3G-SDI as 4:2:2 at up to 60fps at 10 bit.**
- **File ingest through simple file transfer over Ethernet or via USB port**
- **Support for multiple input formats with conversion to standard playout format**
- **Intuitive GUI provides standard playback controls and allows creation of playlist from multiple assets**
- **Capacity up to 30 min 4:2:2 UHD at p60, 10-Bit or 2 hours of 4:2:0 UHD p60 8-bit**



Ultra HD as it's meant to be



Xylostream XP4000 Ultra HD Video Player



Key Benefits

Low cost baseband video player supporting Ultra HD

- Cost-effective and straightforward route to live testing of Ultra HD video
- Don't waste engineering time creating a home grown solution

Supports all the variants you want to test

- Frame rates up to p60, 8 and 10 bit, 4:2:2 output
- Store in 4:2:0 or 4:2:2 formats, 8 or 10-bit for maximising storage capacity
- Support for Ultra HD and upscaling from HD to Ultra HD to enable re-use of existing HD assets
- Up to 8 stereo pairs of embedded audio, useful for testing next generation multichannel and object sound

Very simple to operate

- Intuitive GUI allows full control and customisable or looping playlist

Optional Functionality

Get more from your XP4000 with the following optional add-ons:

- Logo Insertion: brand your demos and video presentations with custom logos and images
- Support for additional audio up to 8 stereo pairs
- Split screen comparison of 2 assets, typically used for comparing compressed vs uncompressed or for comparing two different encoders
- Dual output with built-in real time decode capability for live split screen comparison

XP4000 Video Player Specification

INPUT

| | |
|---------------|--|
| Ingest | File transfer over GbE or USB (GUI based) |
| File Formats | Prores (including uncompressed Mov), MPEG-2, MPEG-4 AVC / H.264, HEVC / H.265, DPX, YUV All file formats converted to common playback format in 4:2:0 or 4:2:2 (selectable) |
| Audio formats | LPCM, MPEG-1 LII, AAC |

CONTROL

| | |
|----------------|--|
| User Interface | Intuitive GUI including video confidence monitor Auto-play of last playlist on boot Continuous playback loop |
|----------------|--|

PROCESSING

| | |
|----------------|---|
| Storage | 6 x 500 GB providing playout for approx. 30 min 4:2:2 UHD@p60 10-bit. |
| Logo Insertion | <i>Optional</i> Logo Insertion functionality |

OUTPUT

| | |
|--------------|--|
| Video Output | 4 x 3G-SDI (SMPTE 424M/425M) Level A and B 4:2:2 Output Ultra HD resolution 3840 x 2160p @ 24, 25, 29.97, 30, 50, 59.94, 60 fps <i>Optional</i> Genlock |
| Audio Output | Stereo pair embedded in 3G-SDI <i>Optional</i> additional audio up to 8 stereo pairs |

POWER, PHYSICAL, ENVIRONMENTAL

| | |
|---------------|--|
| Input Voltage | 100-240VAC, 50/60 Hz Redundant hot swappable power supplies |
| Physical | 1RU x 19" Front to back airflow |

Contact us to find out more about Ultra HD:

Xylostream Technology, 2 Venture Road, Southampton Science Park, Chilworth, SO16 7NP, United Kingdom

E info@xylostream.com **T** +44 (0) 2381 290 210

Xylostream.com



Ultra HD as it's meant to be