JPEG XS is the new ISO/IEC codec for IP workflows in studio environments, for local video networks and for VR/AR applications which allows transferring high-resolution video data over standard Ethernet or other wired connections. The codec is a mezzanine compression codec, designed to work with limited computing resources. It can be used for lowest complexity and platform-independent applications at compression ratios up to 10:1.

Fraunhofer IIS provides a first JPEG XS codec implementation for video production as an SDK with optimized functions for encoding and decoding on CPUs and GPUs. Also available is a software-plugin for Adobe® Premiere® Pro CC with real-time playback capability of 4k60p UHD video.

JPEG XS features at a glance:

- Streaming up to 8k resolution video in professional studio environment
- Integration in SMPTE 2110, RTP and MPEG2-TS
- Low Latency (32 lines end-to-end)
- RGB/YCbCr 422, 444, 4224 and 4444 up to 12 Bit per component
- Predictive and precise ratecontrol

SDK available for Windows and Linux

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