UltraGrid in use

Electronic Visualization Laboratory

Jisc

New World Symphony

NTT Network Innovation Laboratories

USC Cinematic Arts

Do you want to cooperate, have you got any question?
Contact us.

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UltraGrid is project of CESNET and SITOLA

CESNET

Advanced Network Technology Laboratory

UltraGrid

Software for **low latency** and **high-quality** video network transmissions

Ultra-high definition video streaming

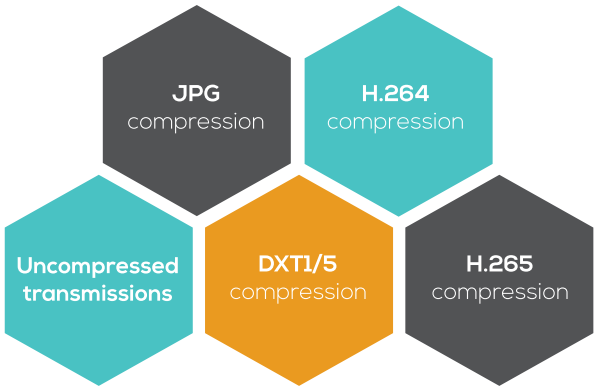
End-to-end latency as low as **40ms**

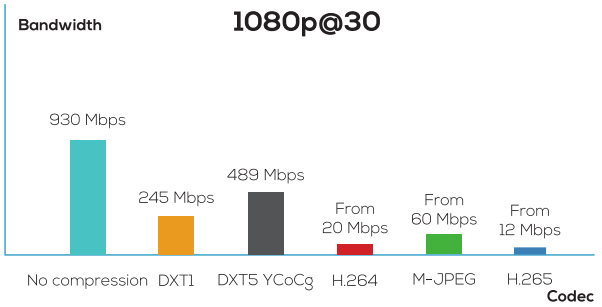
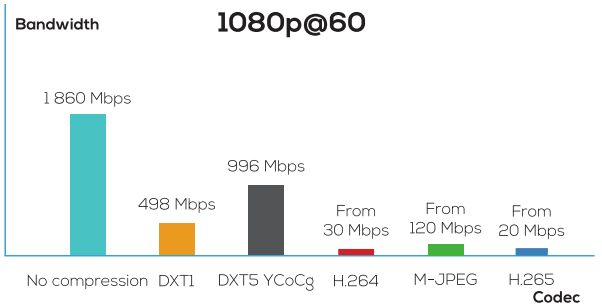
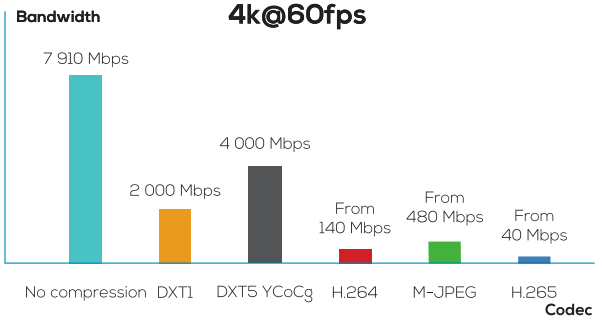
Transmissions using **PC and Mac HW**

Main Features

- As low as 40ms end-to-end latency
- Support for various video standards (PAL/NTSC, HD, 2K, 4K, 8K – both tiled and untiled) up to 60fps
- Uncompressed transmissions, DXT1/5, (GPU accelerated) JPEG, JPEG2000, H.264 and H.265 compressions
- OpenGL and SDL software displays
- 3D support
- SAGE support
- Support for all relevant SDI and HDMI boards and units
- Support for system audio, JACK or HDMI/SDI-embedded audio
- FEC support using (GPU accelerated) LDGM and Reed Solomon codes
- Flexible RTP-based format forvideo and audio delivery
- Transcoding packet reflector
- SDN support (through integration with CoUniverse)
- Runs on Mac OS X, various Linux distributions and MS Windows
- Public domain and commercial use free of charge. BSD or GPL license.
- Custom development possible

We support
uncompressed transmissions
and many
compression mechanisms



Bandwith Test

See the measured bandwidth including overhead with 9000B Ethernet frames. Uncompressed signal was 8-bit YUV422.