

JPEG-2000 Encode/Decode Apps



Riedel's JPEG-2000 Encode/Decode App suite can be used with MuoN SFP or FusioN standalone hardware. The solution is perfect for remote production applications, where signals must be exchanged across narrow bandwidth networks.

The JPEG-2000 App can encode any HD/3G SDI or ST2110 stream set into JPEG-2000 transported via ST2022-2. The solution is also available as a decoder from JPEG-2000 to SDI or ST2110.

Based on IntoPIX JPEG-2000 design, the JPEG-2000 CODEC (ISO/IEC 15444-1) can encode or decode Video, Audio, and ANC data at various bitrate such as 150, 250 and 500Mbps. The CODEC image system uses state-of-the-art compression techniques based on wavelet technology which can provide near lossless results while also delivering the compress streams with very low processing delay and pristine image quality.

Riedel's implementation provides accurate synchronization of audio, ANC and video enabling critical application such as remote referee assistance.

Features:

- Dual channels encode or decode
- Selectable from 50 to 500Mbps bitrates
- YUV - 4:2:2 - 10 Bits
- Support of HD and 3G formats
- Included frame synchronizer
- Typical processing delay of 2 frames encode a 1 frame at decode
- Also includes ST2110 gateway
- ST2022-7 Class C
- Interoperates with other JPEG-2000 CODECs
- Simple RESTful API for third party control system
- Available with Ember+ control API

Benefits

- Allows exchange of HD/3G signals through a 1GE MPLS network without impacting the quality of the image in live operation
- High density, low weight and power

Ordering Info:

These Apps can be installed on MuoN B10 SFP, FusioN-6-B or FusioN-3-B standalone hardware. It is important to properly match the direction of the I/O with the corresponding software to obtain the desired result. Tailor your own solution – use the online configurator!