

# Video Solutions for Multicast Networks

## SPTS Encoder

Single-Program Transport Stream Encoder is a "raw video source to live network stream" product, which is mostly intended as a "resource provider" for multicast video networks. It receives video input from external video cards and packages the adjusted video as Single Program MPEG Transport Stream ( SPTS / IPTV ) and outputs it to the network.

- Serial Digital Interface [SDI]
- Firewire / IEEE 1394
- Composite
- Video File

Video received from the capture card or video file can be encoded as an MPEG-2, H.264 or DV-Video stream at the desired resolution and bandwidth. Then it is muxed as an MPEG Transport Stream and pushed onto the multicast network.

SPTS encoder encodes video from live sources or animation files in real time and produces new transport streams on the multicast network.



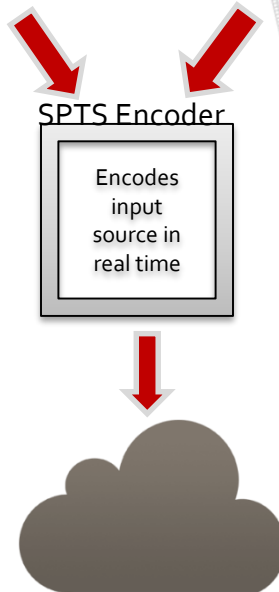
### LIVE VIDEO

SDI, HDMI, Component, Composite, Firewire



### ANIMATION

MOV, AVI, MPG, WMV



Multicast IP Network

# Technical Specifications

## SPTS Encoder

### INPUT

#### Video Signal Options

- **Digital**
  - Serial Digital Interface (SDI)
  - High Definition Multimedia Interface (HDMI)
  - FireWire (IEEE 1394)
- **Analog**
  - Composite
- **File**
  - Encoded files in AVI, MPEG, MOV etc. formats.

#### Video Input Formats

- 352 x 288 (CIF or VCD)
- 720 x 576 (PAL or SD)
- 1280 x 720 (720i50) (SDI ve HDMI)
- 1920 x 1080 (1080i50) (SDI ve HDMI)

#### Audio Input

- Mono / Stereo / Quad channel selection
- Adjustable Audio - Video synchronization (at 20 milliseconds precision)

### OUTPUT

#### Stream / Output Types

- **MPEG-TS**
  - Streamed over UDP / RTP
  - Output to File (beta)
  - Served as HTTP stream

#### Supported Video Codecs

- MPEG-2 (ISO/IEC 11172-1, ISO/IEC 13818-1)
- ITU-T H.264 (ISO/IEC 14496-10)
  - Main, Baseline and High profile
  - Level 4.1
- Encoded at desired bitrate

#### Video Encoding Options

- Quality Profiles: High Quality / Mobile / Performance
- Up to 4 different profiles in a single system
- Resolutions: QCIF, QPAL, PAL, HD and many other non-standard resolutions (320x240 vb.)

#### Supported Audio Codecs

- AAC (ISO/IEC 13818-7, ISO/IEC 14496-3)
- MP3 (ISO/IEC 11172-3, ISO/IEC 13818-3)
- Encoded at desired samplerate

#### Other

- Ability to use separate network adapters on the same system