



Acclaim™ Video Encoders

Acclaim SD™

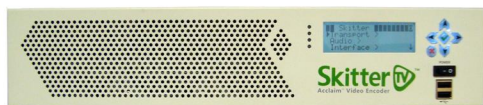
Live Standard Definition Video Encoding



High-Quality, High-Performance Live Video Encoding For Service Providers and Entertainment Producers

The Skitter.TV™ Acclaim SD™ video encoder delivers exceptional picture quality with the flexibility, reliability and performance you need to compete effectively and ensure quality of service. It's an advanced solution that produces industry-standard MPEG-4 H.264 AVC video for IP delivery in constant bitrate (CBR) or in Skitter's patent-pending Prioritized Variable Bitrate™ (PVBR™).

Prioritized VBR adds rate shaping features that allow the operator to choose the average bitrates of individual VBR streams and to cap the peak bit rate at a hard limit that will not exceed the capacity of ADSL network switches. PVBR greatly reduces buffering requirements, virtually eliminating interruptions in video stream delivery.



Also available: The Acclaim Duo™ dual-stream HD/SD video encoder

The Acclaim SD also includes a built-in receiver for simplified signal routing, reduced box

count and streamlined redundancy support. What's more, Acclaim encoders are designed to accommodate on-going upgrades as advances in audio and video compression are achieved.

Find out why service providers and entertainment content distributors alike are looking to the Acclaim family of video encoders for stunning picture quality in a highly efficient video stream. For more information, contact Skitter today.

Product Highlights:

- Produces Standard Definition MPEG-4 H.264 AVC video streams in real time
- Offers exceptionally low bitrate encoding that produces standard definition video streams at an average 1.4 Mbps with peaks to 1.8 Mbps
- Supports Main Profile Encoding at Level 3
- Supports both 625i and 525i video resolutions
- Provides input flexibility:
 - Baseband SDI
 - ASI input
 - Off-air RF input
- Offers digital turn-around for ASI MPEG-2 inputs
- Transcodes AC3 to AAC
- Offers both an on-board LCD Interface and a Web browser Interface for convenient system monitoring and management

TECHNICAL SPECIFICATIONS Skitter.TV Acclaim SD™ Live Video Encoder

MPEG-4 Features

- Motion Estimation:
- Supports P, B & reference B frames
 - 7 block sizes 4x4 to 16x16
 - 6-tap 1/4-pel interpolation
 - Weighted prediction
 - Flexible Pixel Aspect Ratio (PAR)
- Noise Reduction:
- Variable Block-Size motion compensation (future)
- Rate Control:
- Multipass encoding with CBR, VBR and patent-pending Prioritized VBR™
 - Dynamic GOP—adaptive B frame
 - Selectable GOP
- Coding:
- CAVLC / CABAC entropy coding
- Other:
- Parameterized deblocking filter

Video Processing

- Input:
- SDI per SMPTE-259M
 - Multicast MPEG-2
 - MPEG-2/ASI
 - MPEG-2 and MPEG-4 embedded in an MPEG-2 transport stream
- Formats:
- 625i; 525i
- Embedded Audio:
- Per SMPTE-272M
 - 4 Stereo Pairs
- MPEG-4 Profile:
- Main; Level 3

Inputs

- Receiver Inputs:
- ATSC digital terrestrial
 - Clear QAM digital
 - Analog NTSC broadcast with ghost cancellation (with optional SDI card)
- Video Input:
- Component; SVideo; Composite (with optional SDI card)

Digital Video Inputs

- Signal:
- Serial digital per SMPTE-259M
 - ASI/SDI

Audio Processing

- Mode:
- Transcoding from AC3 to AAC
 - AAC audio encoding
 - Dolby Digital pass-through
 - ATV audio extraction from NTSC
 - MP2, MP3

Compressed Stream Output

- Ethernet:
- 2 Gigabit RJ-45
- IP:
- Unicast or Multicast
- Encapsulation:
- MPEG-2 Transport over UDP / IP
- Closed Captioning:
- Embedded VBI closed captioning data

Control and Status

- Encapsulation:
- Complete system management via an LCD screen on the encoders and/or via a browser interface

Physical

- Width:
- 18.9 inches (48 cm)
- Depth:
- 15.5 inches (39.4 cm)
- Height:
- 1RU, 1.75 inches (5 cm)
- Power:
- 115-230VAC (continuous), 4763Hz
- Power Usage:
- Less than 150 watts
- Cooling Air Flow:
- Front to rear
- Temperature:
- To 40° C

Other

- Limited Warranty:
- One year
- Compliance:
- FCC, CE, CC, RoHS

Additional

- Video Format:
- NTSC, PAL
- Aspect Ratio:
- 4:3, 16:9
- Chroma Format:
- 4:2:0
- Video Processing:
- Spatial filtering
 - *Single or multiple slice encoding

Ordering

- RF Input: EC-000-100
- DVB-ASI Input: EC-100-200
- HD-SDI / SDI Input: EC-100-300

Options

- Skitter Streamer EC-100-100

