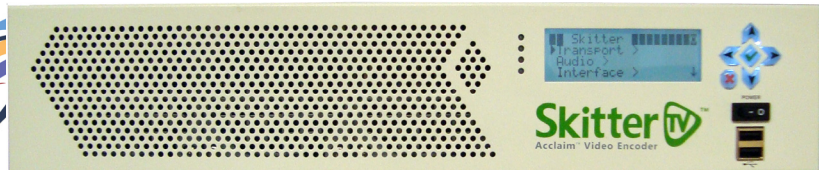




**Acclaim™ Video Encoders**

**Acclaim Duo™**

*Dual-Stream HD/SD  
Live Video Encoder*



## **The High-Quality, High-Performance Live Video Encoding Solution For Service Providers and Entertainment Producers**

The Skitter.TV™ Acclaim Duo™ HD/SD video encoder delivers exceptional picture quality with the flexibility, reliability and performance you need to compete effectively and ensure quality. 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 bitrate 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.

The compact 2RU platform supports analog off-air and ATSC digital terrestrial inputs. The built-in receivers reduce box count, simplify signal routing and streamline redundancy support.

Key to the design of the Acclaim Encoders is the ability to continuously upgrade the encoding system as advances in audio and video compression become available.

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 High Definition and Standard Definition MPEG-4 AVC video streams simultaneously, in real time.
- Offers exceptionally low bitrate encoding
  - HD streams at an average 3.5 Mbps with peaks to 5 Mbps
  - SD streams at an average 1.4 with peaks to 1.8 Mbps
- Supports Main Profile Encoding at Level 4 for HD and Main Profile at Level 3 for SD
- Supports 1080i, 1080p, 720p and 480i video resolutions
- Variable-block-size motion compensation
- Provides input flexibility:
  - Baseband SDI/HD-SDI (selectable HD/SD)
  - ASI input
  - Off-air RF input
- Offers digital turn-around for ASI MPEG-2 inputs
- Supports HD to SD down conversion
- Transcodes AC3 to AAC
- Offers both an on-board LCD interface and a Web browser interface for easy system monitoring and management

# Skitter.TV Acclaim Duo™ Live HD/SD Video Encoder

<b>MPEG-4 Features</b> Motion Estimation: <ul style="list-style-type: none"> <li>• Supports P, B &amp; reference B frames</li> <li>• 7 block sizes 4x4 to 16x16</li> <li>• 6-tap 1/4-pel interpolation</li> <li>• Weighted prediction</li> <li>• Flexible Pixel Aspect Ratio (PAR)</li> </ul>		<b>Audio Processing</b> Mode: <ul style="list-style-type: none"> <li>• Transcoding from AC3 to AAC</li> <li>• AAC audio encoding</li> <li>• Dolby Digital pass-through</li> <li>• ATV audio extraction from NTSC</li> <li>• MP2, MP3</li> </ul>	
Noise Reduction: <ul style="list-style-type: none"> <li>• Variable Block-Size motion compensation (future)</li> </ul>		<b>Compressed Stream Output</b> Ethernet: <ul style="list-style-type: none"> <li>• 2 Gigabit RJ-45</li> </ul>	
Rate Control: <ul style="list-style-type: none"> <li>• Multipass encoding with CBR, VBR and patent-pending Prioritized VBR™</li> <li>• Dynamic GOP—adaptive B frame</li> <li>• Selectable GOP</li> </ul>		IP: <ul style="list-style-type: none"> <li>• Unicast or Multicast</li> </ul>	
Coding: <ul style="list-style-type: none"> <li>• CAVLC / CABAC entropy coding</li> </ul>		Encapsulation: <ul style="list-style-type: none"> <li>• MPEG-2 Transport over UDP / IP</li> </ul>	
Other: <ul style="list-style-type: none"> <li>• Parameterized deblocking filter</li> </ul>		Closed Captioning: <ul style="list-style-type: none"> <li>• Embedded VBI closed captioning data</li> </ul>	
<b>Video Processing</b> Input: <ul style="list-style-type: none"> <li>• HD-SDI per SMPTE-292M</li> <li>• SDI per SMPTE-259M</li> <li>• Multicast MPEG-2</li> <li>• MPEG-2/ASI</li> <li>• MPEG-2 and MPEG-4 embedded in an MPEG-2 transport stream</li> </ul>		<b>Control and Status</b> Encapsulation: <ul style="list-style-type: none"> <li>• Complete system management via an LCD screen on the encoders and/or via a browser interface</li> </ul>	
Formats: <ul style="list-style-type: none"> <li>• 1080i; 1080p</li> <li>• 720p</li> <li>• 625i; 525i (SD)</li> </ul>		<b>Physical</b> Width: <ul style="list-style-type: none"> <li>• 18.9 inches (48cm)</li> </ul>	
Embedded Audio: <ul style="list-style-type: none"> <li>• Per SMPTE-272M</li> <li>• 4 Stereo Pairs</li> </ul>		Depth: <ul style="list-style-type: none"> <li>• 15.5 inches (39.4cm)</li> </ul>	
MPEG-4 Profile: <ul style="list-style-type: none"> <li>• Main; Level 4 (HD) Main; Level 3 (SD)</li> </ul>		Height: <ul style="list-style-type: none"> <li>• 2RU, 3.5 inches</li> </ul>	
<b>Inputs</b> Receiver Inputs: <ul style="list-style-type: none"> <li>• ATSC digital terrestrial</li> <li>• Clear QAM digital</li> <li>• Analog NTSC broadcast with ghost cancellation (with optional SDI card)</li> </ul>		Power: <ul style="list-style-type: none"> <li>• 115-230VAC (continuous), 4763Hz</li> </ul>	
Video Input: <ul style="list-style-type: none"> <li>• HD/SD Component Video; SVideo / Composite (with optional SDI card)</li> </ul>		Power Usage: <ul style="list-style-type: none"> <li>• Less than 150 watts</li> </ul>	
<b>Digital Video Inputs</b> Signal: <ul style="list-style-type: none"> <li>• Serial digital per SMPTE-292M (HD)</li> <li>• Serial digital per SMPTE-259M (SD)</li> <li>• ASI/SDI</li> </ul>		Cooling Air Flow: <ul style="list-style-type: none"> <li>• Front to rear</li> </ul>	
		Temperature: <ul style="list-style-type: none"> <li>• To 40° C</li> </ul>	
		<b>Other</b> Limited Warranty: <ul style="list-style-type: none"> <li>• One year</li> </ul>	
		Compliance: <ul style="list-style-type: none"> <li>• FCC, CE, CC, RoHS</li> </ul>	
		<b>Additional</b> Video Format: <ul style="list-style-type: none"> <li>• NTSC, PAL</li> </ul>	
		Aspect Ratio: <ul style="list-style-type: none"> <li>• 4:3, 16:9</li> </ul>	
		Chroma Format: <ul style="list-style-type: none"> <li>• 4:2:0</li> </ul>	
		Video Processing: <ul style="list-style-type: none"> <li>• Spatial filtering</li> <li>*Single or multiple slice encoding</li> </ul>	
		<b>Ordering</b> RF Input: <ul style="list-style-type: none"> <li>EC-100-200</li> </ul>	
		DVB-ASI Input: <ul style="list-style-type: none"> <li>EC-200-200</li> </ul>	
		HD-SDI / SDI Input: <ul style="list-style-type: none"> <li>EC-300-200</li> </ul>	
		<b>Options</b> Skitter Streamer <ul style="list-style-type: none"> <li>EC-100-200</li> </ul>	

