Live video streaming – whether viewed on a television screen through a set-top box, on a PC or on a mobile device, and whether delivered through a closed network or the public Internet – lets you extend your reach to more viewers in more markets than ever before. Complementing our versatile StreamZ™ studio encoding and streaming systems, StreamZ Live encoders deliver the quality and reliability of StreamZ in a dedicated configuration for live applications. For mission-critical and multi-channel applications, multiple StreamZ Live encoders can be combined with the Digital Rapids Broadcast Manager® software for centralized management, scheduling, monitoring and fault tolerance, simplifying operations with a complete enterprise-class live stream encoding workflow.
StreamZ Live™

Top-Quality Live Streaming in Your Choice of Format

Whether viewed through a PC or set-top box, IP-based streaming content delivery is redefining broadcast. Bridging the worlds of traditional video and IP networks, your media encoding and streaming platforms are key points along the critical path between you and your viewers. With StreamZ Live, the same exceptional output quality, robust reliability and efficient operation that leading studios and networks depend on daily in our multi-function StreamZ studio encoders are available in a dedicated live platform. StreamZ Live is ideal for multi-channel installations, and supports distribution channels from IPTV to webcasting and mobile devices.

StreamZ Live Highlights

- Live media encoding and streaming in your choice of format
- Advanced preprocessing for exceptional streaming quality and optimal bandwidth usage
- Robust reliability for unforgiving live environments
- Strict stream compliance for broad device compatibility including set-top boxes
- Simultaneous archiving to files for future on-demand use
- Comprehensive analog and digital input options plus HD-compatible models
- Enterprise-class, multi-channel management & automation through Digital Rapids Broadcast Manager

Live Sources

StreamZ Live encoders are available with a choice of encoding formats to reach your desired platforms, from Adobe® Flash® (H.264/AVC or On2 VP6), Microsoft® Silverlight™ (VC-1, Windows Media®) and QuickTime® (Darwin server) powered web experiences to IPTV set-top boxes and mobile phones.

StreamZ Live encoders feature a comprehensive range of analog and digital input options, and dual-channel models (available for select formats) support capture and encoding from two distinct input sources simultaneously. HD-compatible models accept SD, 720p, 1080p and 1080i input sources, with output streams up to full 1920x1080 or down-converted to lower frame sizes and rates depending on the chosen compression format.

Even the most compelling content can fall flat if delivered at poor quality, and the renowned quality of the StreamZ family ensures that your streams will exceed your audiences’ expectations. StreamZ Live’s advanced video preprocessing features include motion adaptive de-interlacing, scaling, filtering and video noise reduction, delivering superior streaming quality and enabling the most efficient use of bandwidth in the compressed result. StreamZ Live also features video proc amp controls and hardware-based graphic overlay, letting you refine the incoming source and add branding such as a logo to the outgoing stream.

The integrated Stream Live software provides an operator-friendly interface for configuring StreamZ Live’s top-quality encoding and streaming capabilities. Encoding parameters from frame sizes and bit rates to advanced codec options can be configured, and pre-processing settings can be interactively adjusted. Multiple encoding and streaming configuration profiles can be stored, enabling easy recall of parameters for one-click operation. Persistent Streaming mode enables streaming to start automatically upon power-up with the current parameters – just one part of StreamZ Live’s dependable reliability.
Digital Rapids Broadcast Manager®

**Trusted Reliability**

Live streaming gives no second chances, and StreamZ Live encoders feature robust reliability to meet these unforgiving demands. To bolster reliability even further or to streamline multi-channel operations, multiple StreamZ Live encoders can be combined with the scalable **Digital Rapids Broadcast Manager** software for enterprise-level management, remote control, scheduling, monitoring and fault tolerance.

Whether you have two encoders for fault tolerance of mission-critical applications or two hundred encoders for large-scale installations such as IPTV, the Broadcast Manager software bolsters reliability while reducing operational cost and complexity.

Digital Rapids Broadcast Manager provides failover management and “self-healing” recovery to automatically respond to failures, boosting your reliability of service to your viewers. If a failure occurs on an encoder, Broadcast Manager automatically transfers operation to a backup system, with minimal interruption to your customers’ viewing experience. Integrated control of upstream, third-party video routers automatically re-routes input sources accordingly. Broadcast Manager’s progressive “self-healing” functions attempt to resolve problems directly on failed systems – particularly significant if backup encoders are unavailable.

Broadcast Manager can alert engineering and operations staff to events such as failures and scheduled task completions through configurable alert notifications. Error conditions can also be monitored by any SNMP-compliant network management system.

**Centralization and Scheduling Bring Simplicity**

Broadcast Manager offers individual or group-based encoder management, significantly simplifying operation. Setup is streamlined through automatic detection of encoders on the network using discovery protocols, enabling seamless scalability and expansion. Encoding and streaming parameters are easily assigned to encoders through reusable project files. User access can be managed locally or via industry-standard LDAP services.

Broadcast Manager features flexible scheduling capabilities for easy automation. Encoders can be started, stopped, or taken offline (such as for maintenance or upgrades) at scheduled times, with the flexibility of using a different set of encoding parameters (including different compression formats) for each scheduled task if desired. A graphical scheduling interface provides an at-a-glance visual representation of scheduled tasks and enables easy identification of scheduling gaps and conflicts. Mosaic-style multi-channel video confidence monitoring lets you view the signal of multiple encoders at a glance, while an integrated or external database keeps track of all activities and events. Developers can also integrate Broadcast Manager into their own custom applications and existing enterprise management systems through an easy-to-use Web Services API.
### Features and Specifications

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#### Features

**StreamZ Live**

- Form factor: 1RU rack-mountable turnkey system
- Video/audio input connectivity: StreamZ-Live-500/5650 Premium: direct connectivity
- Available encoding format options (must specify when ordering):
  - AVC (H.264, MPEG-4 Part 10) with AAC audio (RTP/RTSP),
  - AVC (H.264, MPEG-4 Part 10) progressive with AAC/MP3 audio (RTMP for Adobe Flash, RTP/RTSP),
  - VC-1 (Windows Media, Microsoft Silverlight),
  - On2 VP6 for Adobe Flash,
  - MPEG-2 (UDP/RTP with RTSP),
  - 3GPP/Mobile (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)
- Transport Stream multiplexing/output
- AC-3 (Dolby Digital) stereo or surround audio encoding
- Hardware-based pre-processing (motion adaptive de-interlacing, video noise reduction, aspect ratio conversion, cropping, scaling, filtering, proc amp controls, gamma correction, audio levels)
- Graphic overlay
- Operator-friendly software interface for configuration
- Unlimited saved profiles for quick recall and one-click encoding
- Support for third-party Windows Media DRM (Entriq, SyncCast, thePlatform, generic, etc)<sup>5</sup>
- Scheduling, failover and automation through Digital Rapids Broadcast Manager

**Features and Specifications**

- Encoding channels
- Component analog video inputs (3 BNC)
- Y/C (S-Video) video inputs (Mini-Din)
- Composite video inputs
- Balanced analog audio inputs (XLR)
- Unbalanced analog audio inputs (RCA)
- SDI (supports embedded audio)
- AES/EBU stereo audio (XLR)
- Closed Caption support<sup>4</sup>
- Input video frame formats

### Broadcast Manager

- Supported encoders (sold separately): StreamZ Live, StreamZ, StreamZHDD, StreamZMPEG-2 cards with Stream FE<sup>TM</sup> software
- Automatic encoder discovery plus firewall and proxy support for easy deployment
- Failover and “self-healing” fault recovery modes
- “Control room” view with mosaic-style, multi-channel confidence monitoring
- Scheduling (online/offline, start/stop, encoding tasks/parameters, reboot, etc.)
- Alert notifications
- Simple Network Management Protocol (SNMP) support
- Individual and group-based encoder management
- Control of upstream third-party video routers for enhanced failover
- Event history tracking
- User authentication and authorization with local and LDAP access management
- Web Services (SOAP) API for custom integration

Please see our website for additional details.

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<sup>1</sup> Dual-channel models available for select formats only
<sup>2</sup> HD inputs may require down-conversion (automatically performed within StreamZ Live) to lower resolution or frame rate for streaming output (dependent on output format)
<sup>3</sup> Optional breakout cable or breakout box required for analog and AES/EBU inputs (SDI connectivity standard)
<sup>4</sup> Closed Captioning supported in select encoding formats
<sup>5</sup> VC-1 models only