TouchStream®

Portable Encoding and Live Streaming

Highlights

- Our superior live streaming quality in a streamlined, portable appliance

- Intuitive touch-screen interface with integrated video monitoring for unparalleled ease-of-use and portability

- Exceptional format flexibility with multiple simultaneous outputs and adaptive streaming support

- Simultaneous archiving to files for immediate on-demand use

- Ideal for live events, education, worship, corporate and government communications, court proceedings and more

Your Audience at Your Fingertips

Bringing live video to wider audiences has never been easier. The TouchStream® live video encoding and streaming appliance combines Digital Rapids' renowned encoding quality and reliability with the most intuitive human interface – touch – in a fully self-contained, portable form factor.

Ideal for professional media streaming in the field, on a desktop or in a rack, TouchStream appliances offer unparalleled ease-of-use. Software controls are accessed through a vivid, streamlined touch-screen interface with integrated live video monitoring and VU meters for audio validation, eliminating the need for laptops, keyboards, mice and separate monitors.

TouchStream appliances are ideal for on-location live streaming of events such as concerts and sporting matches; remote news coverage; courtroom proceedings; education; corporate and government communications; worship and more. TouchStream was designed to overcome the challenges often encountered in live environments – from physical space limitations to minimal setup time.

Multi-format, application-tailored models let you choose the right configuration for your needs. TouchStream supports viewing platforms including the Web (Adobe® Flash®, Microsoft® Silverlight® and more), tablets, mobile phones and IPTV set-top boxes. TouchStream can even stream in multiple formats, resolutions and bit rates simultaneously, including adaptive streaming support. HD models of TouchStream can output up to 720p at 30fps in the H.264 compression format from 1080i, 1080p or 720p sources.

Unparalleled Streaming Quality

Though easy enough for use by novice operators, TouchStream systems are powerful enough to meet the demanding expectations of experienced streaming media users. TouchStream units feature the same exceptional, full-resolution output quality and efficient bandwidth utilization that have made Digital Rapids' StreamZ™ and StreamZ Live™ studio encoding and streaming systems the preferred choice of leading studios, broadcast networks and service providers.

Video noise reduction minimizes the 'noise' in your video caused by issues such as low lighting that can greatly impact compression quality. Advanced de-interlacing delivers superior quality on progressive devices like PCs and mobile phones. Additional features including audio controls, picture controls and graphic overlay let you refine the incoming source and add branding such as a logo to the outgoing stream. Video can also be archived to files on optional storage (even in different formats or resolutions than the live stream) for later on-demand use. A configurable set of controls can be locked with a password, letting you limit the functions available to basic users to as little as you prefer – even just start and stop.

Streaming can be started and stopped manually, scheduled, or triggered by GPI. Multiple TouchStream units can be remotely managed, controlled and monitored through the optional Digital Rapids Broadcast Manager® software.

Portable Perfection is Within Your Reach

TouchStream delivers quality, reliability, flexibility and ease of use – all the attributes of the ideal streaming appliance – right at your fingertips.

digital rapids®

Features and Specifications

Available Models (see charts below for details)

TouchStream LE	TouchStream Web	TouchStream TS
TouchStream LE SDI	TouchStream Web SDI	TouchStream TS SDI
TouchStream LE HDi	TouchStream Web HDi	TouchStream TS HDi

Additional Options:
Professional carry bag
Archive storage (CompactFlash adapter, internal hard drive, removable hard drive)

Inputs	Analog models	SDI models	HDi models
Composite analog video	•	○	
Y/C (S-Video) analog video	•	○	
Balanced analog audio (XLR)	•	○	
Unbalanced analog audio (RCA)	•	○	
Component analog video		○	
SDI video		•	HD/SD
Embedded SDI audio		•	•
AES/EBU stereo audio (XLR)		○	○
Audio processing channels (stereo)	2	4[1]	4
Input video frame formats	486i (NTSC), 576i (PAL)	486i (NTSC), 576i (PAL)	SD: 486i (NTSC), 576i (PAL) HD-compatible: 720p, 1080i, 1080p[2]
Hardware-based video pre-processing (motion adaptive de-interlacing, noise reduction, cropping, scaling, filtering, video adjustments)	•	•	•

1. 2 stereo SDI embedded; 4 stereo channels with analog option (2 SDI/AES + 2 analog, or 4 analog).
2. HD inputs may require down-conversion (automatically performed within TouchStream) to lower resolution or frame rate for streaming output (dependent on output format). 720p@30fps output supported in H.264 and MPEG-2.

Shown above analog model (inset HDi model)

Options: Breakout cable or breakout box required for analog and AES/EBU inputs with TouchStream SDI
Breakout box required for AES/EBU inputs with TouchStream HDi

Output Formats (by model)	LE	Web	TS
VC-1/Windows Media (including multicast, script streaming, Microsoft Silverlight, IIS Smooth Streaming)	•	•	
H.264/AVC over RTMP (Adobe Flash including Dynamic Streaming)		•	
H.264/AVC (Microsoft Silverlight including IIS Smooth Streaming)		•	
H.264/AVC (e.g. to Darwin or Wowza Server for QuickTime®)		•	•
H.264/AVC for Apple® iPhone®/iPad™ with integrated segmenting[3]	○	○	○
On2 VP6 (Adobe Flash)	○	○	
AAC Audio		•	•
MP3 Audio		•	
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)	○	○	○
H.264/AVC in Transport Stream	○	○	•
MPEG-2 in Transport Stream (live and file)			•
MPEG-2 (file archiving only)	○	○	•

3. HTTP-based segmented streaming for iPhone/iPad requires optional internal or external storage.

Features	TouchStream
Dimensions (screen not tilted)	400.5mm / 15.8" L 224.5mm / 8.84" W 142.5mm / 5.61" H (with feet on) 132.5mm / 5.22" H (with feet off – 3RU)
Graphic Overlay (logos/branding)	•
Manual start/stop, scheduling and GPI triggers	•
Remote management, control and monitoring with Digital Rapids Broadcast Manager (sold separately)	○
Customizable, password-protected function locking	•
Archive to file during streaming	With optional internal or external (USB) storage

One year Software Maintenance and Standard Support included. Additional years (annual renewal) and premium service plans available for purchase.

Adjustable tilting screen

Professional carrying bag optional