TouchStream®

Portable Encoding and Live Streaming

Highlights

• Our industry-leading live streaming quality in a fully self-contained appliance

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

• No laptop, keyboard, mouse or monitor required

• Flexible format support: from Flash®, Silverlight® and and more on the Web to IPTV set-top boxes, mobile phones and the iPad™

• Ideal for live events, PEG (public/education/government), worship, 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; PEG (public, education and government) applications; corporate communications; worship and more. Multi-format, application-targeted models let you choose the right configuration for your needs, from Adobe® Flash® (including Dynamic Streaming), Microsoft® Silverlight® (including IIS Smooth Streaming) and Apple® QuickTime® (Darwin or Wowza server) powered Web experiences to IPTV set-top boxes and mobile devices (including optional iPhone® and iPad™ support with integrated segmenting). TouchStream can even stream in multiple formats, resolutions and bit rates simultaneously to optimally reach diverse audiences.

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 are often uncontrollable in on-location environments, and 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. Streaming can be started and stopped manually, scheduled, or triggered by GPI. 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.

TouchStream was designed to overcome the challenges often encountered in live environments – from physical space limitations to minimal setup time. TouchStream appliances were also designed for quiet operation, allowing them to be used unobtrusively in noise-sensitive environments.

Portable Perfection is Within Your Reach

Portable encoding and live streaming will never be the same again. TouchStream delivers quality, reliability, flexibility and ease of use – all the attributes of the ideal streaming appliance – right at your fingertips.

digital rapids®

Connecting Content to Opportunity

www.digital-rapids.com

Features and Specifications

Available Models (see charts below for details)

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

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

Inputs	Analog models	SDI models	HDi models
Composite analog video	•	o	
Y/C (S-Video) analog video	•	o	
Balanced analog audio (XLR)	•	o	
Unbalanced analog audio (RCA)	•	o	
Component analog video		o	
SDI video		•	HD/SD
Embedded SDI audio		•	•
AES/EBU stereo audio (XLR)		o	o
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).

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	Mobile	TS
VC-1/Windows Media (Microsoft Silverlight incl. Smooth Streaming)	•	•		
H.264/AVC (Adobe Flash incl. Dynamic Streaming)		•		
H.264/AVC (Microsoft Silverlight incl. Smooth Streaming)		•		
H.264/AVC (e.g. to Darwin Server for QuickTime®)		•		•
H.264/AVC for Apple iPhone/iPad with integrated segmenting[3]	o	o	o	o
On2 VP6 (Adobe Flash)	o	o		
AAC Audio		•	•	•
MP3 Audio		•		
3GPP (H.263, H.264, MPEG-4 Part 2, AAC and AMR audio)			•	
H.264/AVC in Transport Stream	o	o	o	•
MPEG-2 in Transport Stream (live and file)				•
MPEG-2 (file archiving only)	o	o	o	•

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

Armed for Manual start. Current time is 15:45:58

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	•
Customizable, password-protected function locking	•
Archive to file during streaming	With optional internal or external (USB) storage

Adjustable tilting screen

Professional carrying bag optional