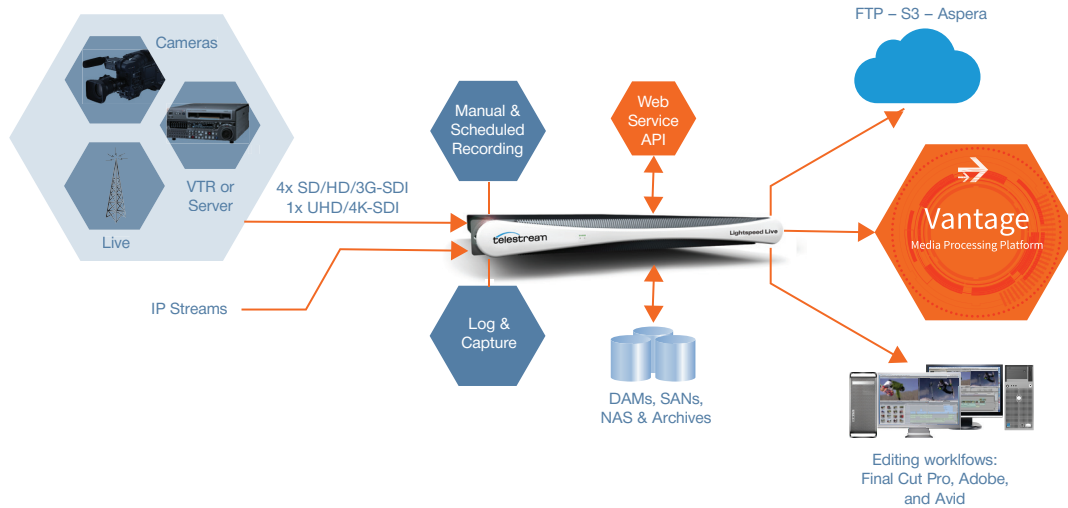


Lightspeed Live Capture

Product Sheet



Lightspeed Live Capture Multi-Channel Video Capture and Processing

Telestream® Lightspeed® Live Capture adds a uniquely flexible capture solution to the Telestream portfolio of professional enterprise-class video products.

Lightspeed Live Capture can operate as a standalone capture device, a multiple server capture farm or be seamlessly added to a Vantage domain of any size.

Overview

Lightspeed Live Capture is a flexible and scalable video capture solution supporting four (4) SD/3G-HD SDI inputs, or one (1) DCI 4K/UHD input. Live Capture ingests into multiple video formats, creating high-resolution mezzanine concurrent H.264/AVC proxy files, and storing them to a large local media RAID or to external shared storage such as a NAS or SAN.

Standalone, Capture farm or integrated into Vantage

Live Capture can operate as a standalone capture device, a multiple server capture farm or be integrated directly into a Vantage domain of any size. Expanding the system is easy: to increase the channel count, simply add additional Lightspeed Live Capture servers, add their services through a common database and control them via common user interfaces. The integration of Lightspeed Live Capture with Vantage allows for unlimited workflow possibilities which makes this solution the most scalable, flexible and powerful media processing platform available today.

More choices, more flexibility

Lightspeed Live Capture offers four easy ways to capture your video: 24/7/365 scheduled recording of live feeds, RS-422 controlled capture from a VTR, manual record and control through a simple automation Web Service API. Lightspeed Live Capture provides direct support for capturing into MXF OP1a, QuickTime or Telestream's TIFO. For those wishing to maintain closed captions and other ancillary data, Lightspeed Live Capture can preserve this data via MXF, TIFO and Avid/Apple proprietary schemes.

Media platform friendly

The Lightspeed Live Capture system creates growing files that directly support 3rd party media edit solutions, including Avid, Adobe Premiere and Apple Final Cut Pro.





Lightspeed Live Capture 1RU Appliance

Fast, Parallel Open Media Processing

When joined with a Vantage domain, Lightspeed Live Capture workflows support Vantage Open Mode. This allows for transcoding, packaging, and deployment to occur through the Vantage domain while the media is being captured. This means advanced media processing workflows can complete within seconds following the end of media capture.

System Features

- Flexible codec and container support
- Highly scalable solution - standalone or multi-server systems
- Captures up to 4K (4096 x 2160) at 60p
- High Channel Density 1RU Capture chassis

Workflow Features

- Seamlessly integrated with Vantage including Open Workflows
- Output multiple resolutions files from any input
- Capture to Local RAID or external shared storage
- Wide range of delivery options – CIFS, FTP, S3, Aspera, others
- Supports edit, transcode or copy from growing files
- Time Shift buffer - capture frames from up to 60 seconds in the past
- Browser based control interface

Designed for demanding enterprise-class broadcast and professional video capture applications, Lightspeed Live Capture offers premium features and exceptional performance. Powered by the latest generation of Lightspeed Live server, Capture excels at performing demanding video ingest from similar or mixed format sources, while simultaneously creating multiple high resolution and proxy files from any of its inputs. Files are written directly to the Live Capture server's local RAID storage or to NAS/SAN shared storage. Live Capture also offers a wide range of delivery choices such as CIFS, FTP, S3 or Aspera systems.

As a standalone system, Lightspeed Live Capture acquires SDI video from up to 4 independent input channels (or IP streams in a future release). Multiple Live Capture servers can be joined together to create a multiple server capture farm under a common control interface. In addition Live Capture can be seamlessly integrated directly into a Vantage domain enabling unlimited workflow possibilities through Vantage's Media Processing Platform.

Lightspeed Live Capture offers best in class channel density (4 HD channels in 1 RU) and a broad range of control methods (Lightspeed Live Capture Web Application, Lightspeed Live Capture Web Service Application Program Interface (API), VTR control via RS-422 or Vantage Management Console) plus enterprise class system management tools including IPMI, SNMP and Windows Active Directory login.

Technical Specifications

SD/HD/3G-SDI Video Inputs

- SMPTE 259M-C (270Mb/s, 480i/576i) 625/50, 525/59.94
- SMPTE 292M (1.5Gb/s, 720p/1080i/1080p/1080@24Psf),
- SMPTE 424M (3.0Gb/s, 1080p50/60)

UHD/4K Video Inputs (using Quad-Link 3G-SDI)

- UHD (3840 x 2160p - 23.98/24/25/29.97/30/50/59.94/60)
- 4K (4096 x 2160p - 23.98/24/25/29.97/30/50/59.94/60)

Audio Channels

- Up to 16 channels embedded SDI audio 48KHz/16/24bit / Uncompressed

VTR Machine Control for each SDI Input

- RS-422, 9 pin Sony Protocol
- Control up to 4 VTRs per Lightspeed Live Capture system

External API Control

- Web service
- RS-422 (BVW/Sony 9-pin)

Time code sources

- Source SDI input (VITC/VBI)
- RS-422
- Analog LTC
- Computer Clock
- Free Run

Edit solutions

- Apple Final Cut Pro 7 and X
- Adobe Premier Pro CC
- Avid Media Composer 7 or later
- Others

Primary output file formats

- Apple ProRes* – 422HQ, 422SQ, 422LT, 422 Proxy, 444
- DNxHD - 444, HQX, HQ (220/185 Mbps), HQ TR (145/120 Mbps), SQ (145/120 Mbps), SQ TR (100 Mbps), LB (45/36 Mbps)
- DNxHR* – 444, HQX (10 bit), HQ, SQ, LB
- AVC Intra - 50 Mbps 4:2:0, 100 Mbps 4:2:2, 200 Mbps 4:2:2
- AVC* Baseline, Main, High. Bit Rate - 50 Mbps
- XDCAM HD - 18 Mbps CBR, 25 Mbps CBR, 35 Mbps VBR
- XDCAM HD422 - 50 Mbps CBR
- XDCAM EX - 35 Mbps VBR
- IMX – 30, 40, 50Mbps
- HEVC* (software encoding only) Bit Rate - 50 Mbps
- DV - DV 25 Mbps, DVCPRO 25 Mbps, DVCPRO 50 Mbps, DVCPROHD

Primary output file formats (continued)

- x264* Baseline, Main, High, High 10, High 4:2:2, max Bit Rate 50Mbps
- x265* Main, Main 10, Main Intra, max Bit Rate 50Mbps
- MPEG-2, max bit rate 50Mbps

Browser based control UI

- Manual Recording options
- 24/7/365 Scheduling
- Log and Capture with VTR control via RS-422
- Web Service API
- Multichannel Gang recording

Container Wrappers

- MXF OP1a including RDD9 and RDD25 variants
- QuickTime
- MP4 - complies with IEC-14496-14
- MPEG Transport Stream (with MPEG2 essence) and Manzanita multiplexing
- Telestream TIFO

Proxy output files

- AVC/H.264 - MXF OP1a - High@L3, container conforms to SMPTE RDD25, max Bit Rate 10Mbps
- AVC - MP4 - High@L3, container conforms to IEC-14496-14, max Bit Rate 10Mbps

Hardware

- 1 RU chassis
- Dual hot swap Power Supplies
- 4 x 10GBase-T Ethernet ports
- Up to 8.8TB of local RAID storage

Environment

- Management console and system monitoring via SNMP
- Size: H 1.7" (43mm) x W 17.2" (437mm) x L 27.8" (707mm)
- Weight: 32 lbs
- AC Input: 100-127Vac, 50-60Hz; 200-240Vac, 50-60Hz
- Operating Temperature: 5°C to 40°C (41°F to 104°F)

*4K/UHD capable

