Lightspeed Live Capture Server Family

Telestream® Lightspeed® Live Capture Family of servers offer high quality encoding in a range of products for a variety of customer applications. Live Capture servers are part of Telestream's portfolio of professional enterprise-class Live video products.

Overview

Telestream offers three Live Capture servers that comprise the Lightspeed Live Capture server family. Each Live Capture server is a 1RU video capture appliance designed for demanding enterprise-class broadcast and professional video capture applications:

- Live Capture C2+ – Most economical, four (4) 3G-SDI SD/HD inputs or one (1) Quad-Link UHD/4K input
- Live Capture C4 – Highest performance server with eight (8) 3G-SDI SD/HD inputs or two (2) Quad-Link UHD/4K inputs
- Live Capture C5 – Highest performance server with eight (8) 3G-SDI SD/HD inputs or two (2) Quad-Link UHD/4K inputs with eight (8) 3G-SDI confidence monitor outputs

Server Descriptions

The Lightspeed Live Capture family of servers allows for broad sizing and performance coverage and offers three tiers of server capacity covering a broad range of customer requirements. All servers share Live Capture's suite of web apps, including VTR Log and Capture, supports source input pass-thru enabling an incoming SDI stream to be looped out via an SDI output, and uses the same basic 1RU chassis.

Lightspeed Live Capture C2+ – This server is our base Live Capture server capturing SD/HD from four 3G-SDI or IP source inputs. It supports all Live Capture's SD and HD codecs and containers and many UHD/4K codecs.

Lightspeed Live Capture C4 – The C4 server offers the highest performance option in the Lightspeed server family. The C4 server supports 8 concurrent HD captures for most available HD codecs or 2 concurrent UHD/4K up to 60p with most UHD/4K codecs, including XAVC Class 300/480.

Live Capture C5 – The Live Capture C5 server offers the highest performance option in the Live Capture server family, identical to the C4. The Live Capture C5 server supports 8 concurrent HD captures for most available HD codecs or 2 concurrent UHD/4K up to 60p with most UHD/4K codecs, including XAVC Class 300/480* with 8 concurrent, confidence monitor outputs.

For exact performance capabilities of each Lightspeed Server, please refer to the Lightspeed Live Capture User Guide.

telestream

Hardware

Server Model	C2+	C4	C5
Chassis	1RU - Dual, Redundant 750W Power Supply		
CPU	Dual Intel 12 Core	Dual Intel 24 Core	Dual Intel 24 Core
GPU	Nvidia RTXA4000 GPU		
RAM	48GB	192GB	192GB
OS Drive			
Media Storage RAW Capacity	6.9 T8	7.7 TB	7.7 TB
Media Storage RAW Capacity			
Media Storage drive type (defaut)	4X SSD	4X SSD	4X SSD
Media Drive RAID Controller	Hardware SAS	Hardware SAS	Hardware SAS
Media RAID Type (default)	RAID 5	RAID 5	RAID 5
Input Card	Corvid-44	Corvid-88	2 X Corvid-88
3G-SDI Inputs	4	8	8
10Gbe Ethernet Ports	4 X 10G Base-T	2 X 10G SFP+	2 X 10G SFP+
USB Ports	5 X USB 3.0		
VTR Control - RS422	2	4 or 8	4 or 8

Hardware Options

Server Model	C2+	C4	C5
VTR Control (LS-LIVE-RSA22 | LS-LIVE-RS422-8)	4	4 or 8	4 or 8
Media Storage Upgrade		Upgradable to 15.4TB	Upgradable to 15.4TB
OS Drive RAID1 (LSL-OS-RAID1-OPT)			
12G SDI option (LSL-LIVE-AJA44-12G)	✓	✓	
ST2110 option (LS-LIVE-12-25G2110)		✓	
Dual 10Gbe SFP+ PCI card (LSL-10GBESPF-DUAL)	✓	✓	✓
Dual channel (LSL-16G-FIBRE-DUAL)	✓	✓	✓

Software Options

	C2+	C4	C5
Live Schedule Pro (LSL-SCHEDPRO-BASE)*	✓	✓	✓
GLIM (SW-GLIM-5/15)*	✓	✓	✓
Avid Integration (LS-LIVE-AVID-OPT)	✓	✓	✓
Vantage Transcode (LSL-XCODE-SW)	✓	✓	✓
Vantage Transcode Pro (LSL-XCPRO-SW)	✓	✓	✓
Vantage Metadata (LSL-METADATA-SW)	✓	✓	✓
Vantage Analysis (LSL-ANLZ-SW)	✓	✓	✓
Vantage Analysis Pro (LSL-ANLZ-PRO-SW)	✓	✓	✓

Recording Triggers

	C2+	C4	C5
Manual | Manual Gang | Manual Timed	✓	✓	✓
Recurring Segment (each segment max 8 hours)	✓	✓	✓
DAI (SCTE)	✓	✓	✓
Web Services	✓	✓	✓
Schedule	✓	✓	✓

*Requires separate host machine

telestream