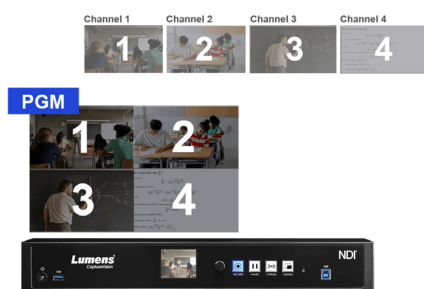# LC300S
CaptureVision System

4-Channel Recorder and Streaming
Media Processor with UltraHD, NDI and 12G-SDI

Lumens LC300S is a 4K multi-channel media processor with 12G-SDI, HDMI, USB, IP and NDI connectivity. As a lecture capture system, live event switcher or multi-purpose AV encoder, the LC300S delivers an exceptional user experience. Key features include video mixing, recording, and live streaming.

Key Features

- Supports 4 video and 7 audio channels
- HDMI, USB, 12G-SDI, IP, NDI High Bandwidth, NDI HX2 and NDI HX3 inputs.
- 12G-SDI and HDMI loop-through
- USB Output (UVC/UAC) for use in video conferencing
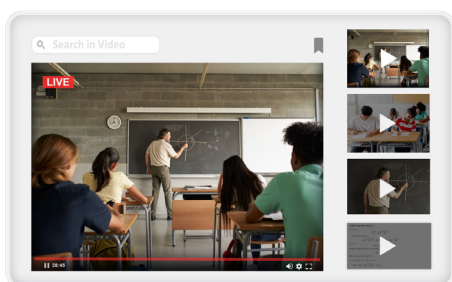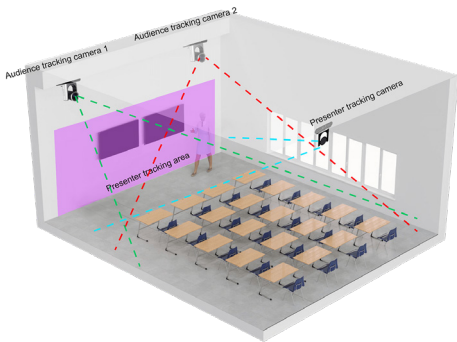- Dual Ethernet ports for WAN and LAN integration

Flexible Encoding Performance

LC300S can encode four inputs at 1080 50/60P as well as the program output. This gives it powerful recording and streaming capabilities, making it well suited for multi-camera productions, interactive media, evidential archiving and enriched digital learning.

Multiple Screen Select

Outputting multiple streams simultaneously, LC300S can work with immersive video platforms. This allows the viewer to control their viewing angle, to focus on a particular presenter, or to switch to a media presentation in real-time.

Intelligent Director (Automated Production)

Intelligent Director automates production, whether it's in a meeting room, classroom, lecture hall or conference center. It recognizes the behavior of the presenter and the audience and intelligently switches camera angle to deliver a TV-like experience. AI-powered, the LC300S works in tandem with selected tracking cameras to create a multi-angle production without the need for a video crew.

NDI Eco-system

LC300S can serve as a video source switcher in an NDI eco-system, or an AV bridge that converts NDI with HDMI or USB out. It can also push video and audio to multiple streaming platforms at the same time.

Friendly Director User Interface

LC300S is feature-rich and capable of producing stunning results. The device can be managed and controlled locally or remotely, and in conjunction with third-party applications such as Panopto and Kaltura. The local interface available via HDMI is slick and highly visual, giving previews of every source, mix effects and titles, as well as the program output.

4K 60P Recording and Streaming

Future-proofed, LC300S captures UltraHD video at up-to 60 frames per second. It encodes, records and streams a single channel of 4K video. The unit supports UltraHD over its 12G-SDI and HDMI inputs and outputs, giving users the freedom to connect a variety of 4K sources.
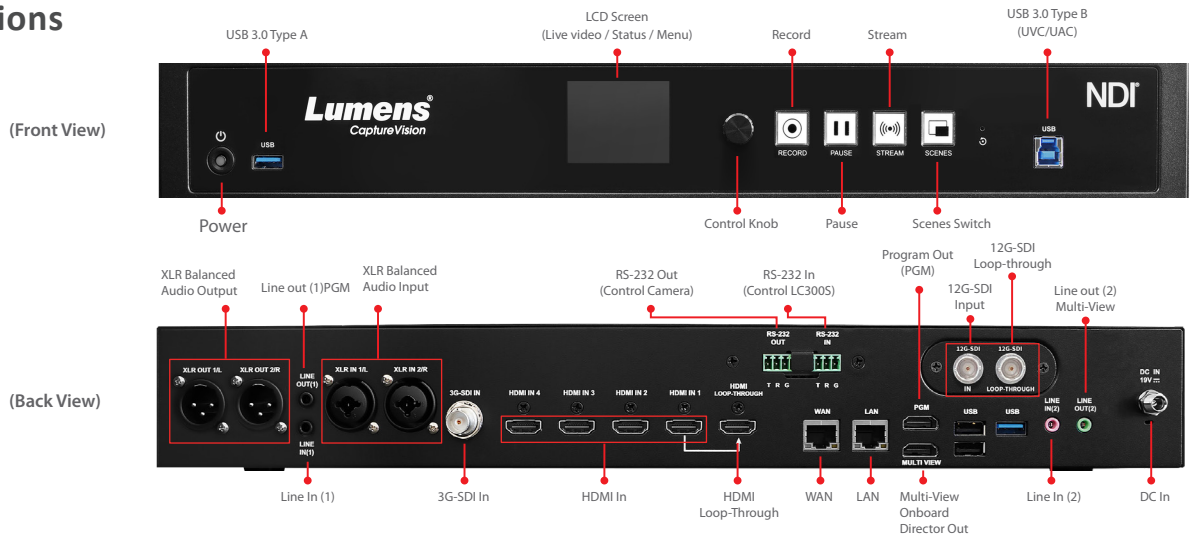
Product Specifications

Video Input	
Number / Signal	HDMI 2.0 x1 HDMI 1.3 x3 3G-SDI x1 12G-SDI x1
Connection	Female HDMI type-A / 3G-SDI /12G-SDI
Resolution Range	HDMI Input 1: 720p~2160p 60fps, 1920x1200(RB) HDMI Input 2~4 and 3G-SDI: 720p~1080p 60fps 12G-SDI: 720p~2160p 60fps
IP Source / USB Camera	Lumens IP PTZ / Box Camera NDI High Bandwidth, NDI HX2 and NDI HX3 Source RTSP Source (HEVC(H.265) / H.264), SRT USB Camera (MJPEG 1080p 30fps)

Video Processing	
Video Compression	HEVC (H.265) / H.264 / AVC 4:2:0 8bit color Encoding Profile: High, Main, Baseline

Video Output	
Number / Signal	HDMI x2 HDMI Loop-through x1 12G-SDI Loop-through x1 UVC(up to 1080p) x1
Scaled Resolution	2160p / 1080p
Frame Rate	60 / 50 / 30/ 25 fps
Monitor	2 inch color LCD screen

Recording and Storage	
Internal Storage	4TB HDD
External Storage	USB Storage
File Type	H.264 / HEVC(H.265) and AAC in an MP4 container, JPEG
Resolution	2160p / 1080p / 720p / 480p / 360p
Frame Rate	Max. 60 fps

Audio Input	
Number / Signal	Line In (Stereo Unbalanced Audio, 3.5mm Phone Jack) x2 Combo (XLR/TRS, Balanced Audio, Line in/ Mic in, Support +48V Phantom Power) x2 IP Audio Source (RTSP(AAC-RAW), NDI, 16K/44.1K/48K) Support UAC

Audio Processing	
Compression	AAC-LC

Audio Output	
Number / Signal	XLR, Balanced Audio, Line Out x2 Stereo, Unbalanced 3.5mm Phone Jack x2 Stereo, Digital De-embedded Audio from HDMI x2 USB (UAC) x1

Communication	
USB	USB 2.0 Type A x2 USB 3.0 Type A x2 Support USB Storage, USB Camera, USB Mic. USB Mouse, Keyboard, HID Touch Display USB 3.0 Type-B (UVC / UAC) x1
Serial Control	RS-232 In /RS-232 out

Ethernet	
Ethernet host port	Female RJ-45 x2 10 / 100 / 1000 Base-T High / Full Duplex
Streaming Protocol	Pull: RTSP / NDI High Bandwidth Push: RTMP / RTMPS / MPEG-TS / SRT / TCP, UDP, HTTP DHCP Client

Functions	
Support IP Sources	Lumens IP Camera, RTSP, NDI
Scenes switch	Yes (Preset for Layout, Background, and Overlay)
Layout switch	Yes
Background switch	Yes
Overlay	Yes (PNG Overlay)
File backup	FTP / SFTP / NAS (CIFS / SMB, NFS) / WebDAV / USB Storage
Content Management Systems	Panopto / OpenCast / Kaltura

General	
Power supply	DC In , 19V / 6.8A
Power consumption	130W
Dimensions: (WxHxD)	Standard 1.5U rack 16.6" x 8.48" x 2.58" (422 x 215.5 x 65.5 mm)
Weight	7.72 lbs (3.5 Kg)

I/O Connections

(Front View)

USB 3.0 Type A · LCD Screen (Live video / Status / Menu) · Record · Stream · USB 3.0 Type B (UVC/UAC)

Power · Control Knob · Pause · Scenes Switch

(Back View)

XLR Balanced Audio Output · Line out (1)PGM · XLR Balanced Audio Input · RS-232 Out (Control Camera) · RS-232 In (Control LC300S) · Program Out (PGM) · 12G-SDI Loop-through · 12G-SDI Input · Line out (2) Multi-View

Line In (1) · 3G-SDI In · HDMI In · HDMI Loop-Through · WAN · LAN · Multi-View Onboard Director Out · Line In (2) · DC In

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