Lumens®

NDI HIGH BANDWIDTH

LC300

CaptureVision System

4-Channel Recorder and Streaming Media Processor with UltraHD and NDI

UHD NDI

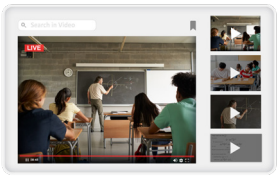
Lumens LC300 is a powerful 4K multi-channel media processor with HDMI, IP and NDI connectivity. As a lecture capture system, live event switcher or multi-purpose AV device, the LC300 delivers video mixing, recording, encoding, decoding and live streaming.

Key Features

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

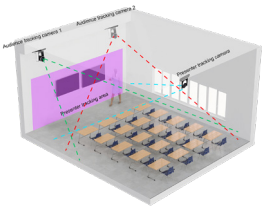
Flexible Encoding Performance

LC300 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, LC300 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, class room, lecture hall or conference center. This function recognizes the behavior of the presenter and the audience and intelligently changes the camera angle to deliver a TV-like experience. AI-powered, the LC300 works in tandem with Lumens selected tracking cameras to create a multi-angle production without the need for a video crew.

*This feature can be implemented through future firmware updates.

NDI Eco-system

LC300 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

LC300 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.

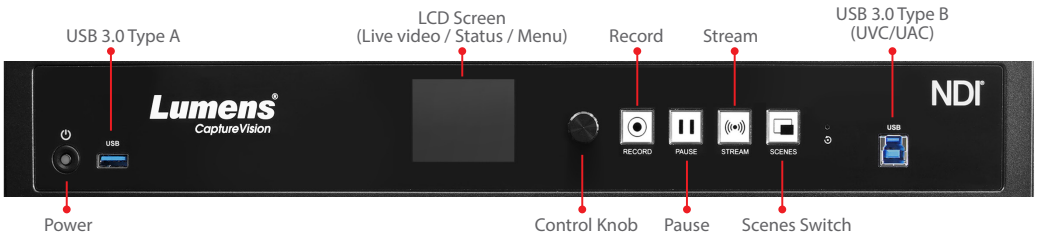
Product Specifications

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

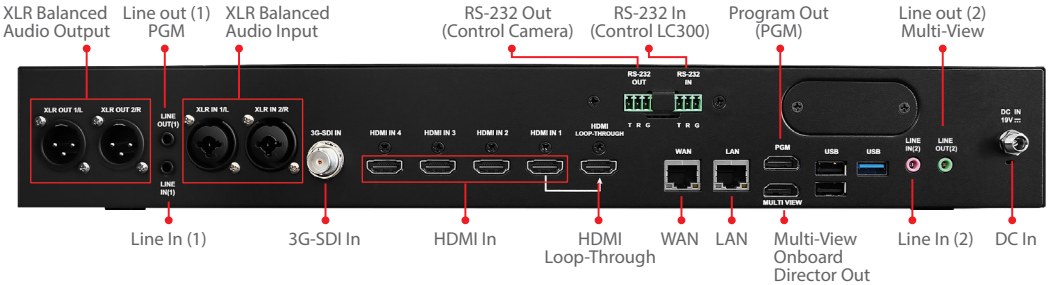
Audio Output	
Number / Signal	XLR, Balanced Audio, Line Out x2 Stereo, Unbalanced 3.5mm Phone Jack x2 Stereo, Digital De-embedded Audio from HDMI x2 USB (UAC) x1
Communication	
USB	USB 2.0 Type A x2 USB 3.0 Type A x2 Support USB Storage, USB Camera, USB Mic. USB Mouse, Keyboard, HID Touch Display USB 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 / RTP / 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)



(Back View)



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