Lumens®

LC100N
CaptureVision System

2-Channel Recorder and Streaming Media Processor with HD NDI®|HX support

*NDI® is a registered trademark of Vizrt Group.

Lumens CaptureVision System LC100N is an all-in-one media processor that enables users to record, mix and stream live. Compatible with Panopto, Kaltura and Opencast, it is ideal for use in lecture capture, streaming worship services, producing corporate training, and live event delivery. Events can be produced live with simple switching between scenes, layouts and sources, with the option of text overlay and logo insert. The system can be controlled live using fascia buttons, the built-in GUI or the network interface. Lumens' deployment tool software facilitates remote management and scheduling of multiple units to centralize system administration.

Key Features

- 2-Channel Media Processing
- Simultaneous Recording, Live Production and Streaming
- NDI®|HX, HDMI, SDI, RTSP and USB inputs
- XLR Audio with phantom power
- Built-in 2TB HDD storage
- Supports for NAS and FTP storage

NDI®|HX Support

LC100N can receive multiple 1080p NDI®|HX streams, enabling plug and play network production. The device can also convert HDMI, SDI and USB sources to NDI|HX, allowing the unit to be used as an IP encoder.

Onboard GUI Director

Live control is incorporated into the device. Connect an HDMI screen to the LC100N to access the intuitive GUI. Plugging in a mouse and keyboard turns the device into a live production switcher.

Live Pre-defined Scenes for Switching

Build layout scenes that help you communicate, such as split screen video, picture-in-picture, title/logo overlays, and background images. Activate and change layouts with the click of a mouse.
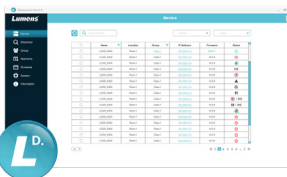
Program & ISO Recording

The LC100N records the mixed program-out video and captures two video inputs with independent audio. This simplifies media archiving and post-production.

Deployment Tool for Remote Central Management

Lumens deployment software enables control, management, and administration of multiple LC100N units on the network. Administrators can remotely monitor device status, saving time and reducing costs.
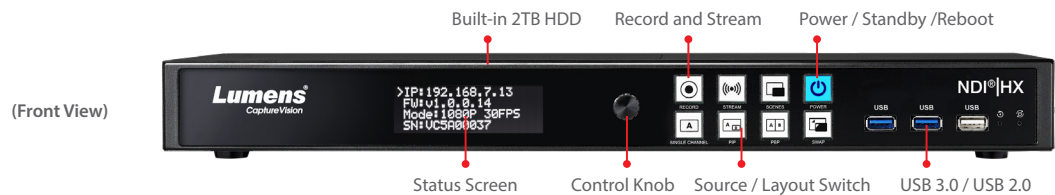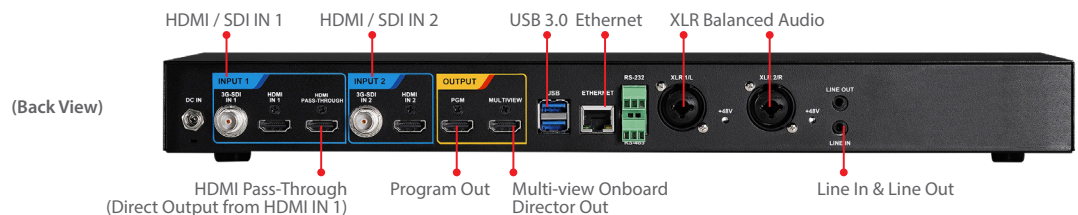
Product Specifications

Video Input	
Number / Signal	2* HDMI (HDCP Compliant) 2* 3G-SDI
Connection	Female HDMI Type-A / 3G-SDI
Resolution Range	HDMI Input 1: 720p~2160p 60fps, 1920x1200(RB) Others: 720p~1080p 60fps
IP Source / USB Camera	Lumens IP PTZ / Box Camera NDI|HX2 Source (1080p 60/30fps) RTSP Source (H.264 1080p 60/30fps) USB Camera (MJPEG 1080p 30fps)

Video Processing	
Video Compression	H.264 / AVC 4:2:0 8bit color Encoding Profile: High, Main, Baseline
Bitrate	200 kbps to 10 Mbps

Video Output	
Number / Signal	3* H.264 / AVC Digital Video over Ethernet 2* HDMI Digital Video 1* HDMI Pass-through (Up to 4K)
Scaled Resolution	1080p
Frame Rate	30 / 60 fps

Recording and Storage	
Internal Storage	2TB HDD
External Storage	4* USB 3.0 Port
File Type	H.264 and AAC in an MP4 container, JPEG
Resolution	360p / 720p / 1080p
Frame Rate	Max. 1080p 60/30 fps

Audio Input	
Number / Signal	1* Line In (Stereo Unbalanced Audio, 3.5mm Phone Jack) 2* Combo (XLR / TRS, Balanced Audio, Line in / Mic in, Support +48V Phantom Power) IP Audio Source (RTSP, 16K / 44.1K / 48K) Support USB Audio (UAC)

Audio Processing	
Compression	AAC-LC

Audio Output	
Number / Signal	1* Stereo, Unbalanced 3.5mm Phone Jack 2* Stereo, Digital De-embedded Audio from HDMI

Communication	
USB	1* USB 2.0 Type A 4* USB 3.0 Type A Support USB Storage, USB Camera, USB Mic USB Mouse, Keyboard, HID Touch Display
Serial Control	RS-232 / RS-485 Port

Ethernet	
Ethernet Host Port	1* Female RJ-45 10/1001000 Base-T High / Full Duplex
Streaming Protocol	Pull: RTSP, NDI|HX2 Push: RTMP / RTMPS / MPEG-TS / SRT TCP / UDP / HTTP DHCP Client

Functions	
Support IP Sources	Lumens IP Camera, RTSP, NDI|HX2
Scenes Switch	Yes, preset for layout, background and overlay
Layout Switch	Yes (Single, PIP, and PBP)
Background Switch	Yes
Overlay	Yes, PNG overlay or system time overlay
File Backup	FTP / SFTP / NAS(CIFS/SMB, NFS) / WebDAV / Copy to USB Flash Drive
Content Management Systems	Panopto / OpenCast / Kaltura

General	
Power Supply	DC In , 12V / 3A
Power Consumption	30W
Dimensions (W x H x D)	Standard 1u rack 17" x 1.9" x 8.5" (432 x 49.4 x 218mm)
Weight	5.3 lbs (2.4 Kg)

(Front View) — Built-in 2TB HDD, Record and Stream, Power / Standby /Reboot, Status Screen, Control Knob, Source / Layout Switch, USB 3.0 / USB 2.0

I/O Connections

(Back View) — HDMI / SDI IN 1, HDMI / SDI IN 2, USB 3.0, Ethernet, XLR Balanced Audio, HDMI Pass-Through (Direct Output from HDMI IN 1), Program Out, Multi-view Onboard Director Out, Line In & Line Out