NDI|HX

VC-A61PN

4K NDI®|HX PTZ Camera

| 4K 30fps | 30x | NDI | PoE+ |

The Lumens® VC-A61PN is equipped with a professional 1 / 2.5″ CMOS sensor with 4K Ultra HD output at 30fps. The camera delivers a crystal-clear image and natural color reproduction. Its superior 30x optical zoom lens captures every detail even in low light conditions.

The VC-A61PN supports NDI®|HX that delivers high-quality video with ultra-low latency for your video production. The camera has Ethernet, HDMI and 3G-SDI outputs. It is applicable for use in a broadcasting studio, conference room, live events, and house of worship, etc.

Key Features

- 4K Ultra HD video image quality
- 30x optical zoom enhances details in the image
- NDI®|HX delivers high-quality video with ultra-low latency

Key Feature Details

4K Ultra HD

Supports a high-end 4K sensor that provides uncompromising image quality with 4K 30fps output resolution.

30x Optical Zoom

Superior 30x optical zoom lens smoothly and quickly captures the details even in low light conditions.

NDI®|HX Technology

The VC-A61PN delivers high-quality video with ultra-low latency and connects directly to an NDI® network.

Simple Live Streaming

Reach a larger audience via live streaming with simpler and quicker installation without bulky cables.
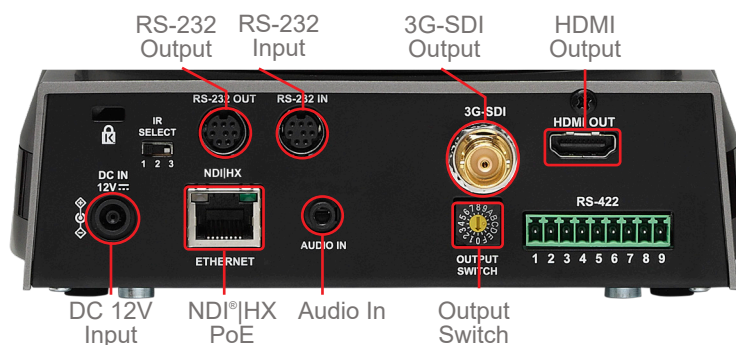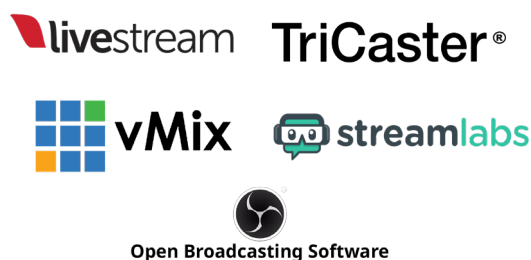
Applications

Broadcasting

E-sports

House of Worship

Product Specifications

Sensor	1/2.5" 8.57MP CMOS
Video Format	2160p: 29.97 / 25 1080p: 59.94 / 50 / 29.97 / 25 720p:59.94 / 50 1080i:59.94 / 50
Video Output Interface	3G-SDI / HDMI / Ethernet
Optical Zoom	30x
Digital Zoom	12x
Horizontal Viewing Angle	68°
Vertical Viewing Angle	38.3°
Diagonal Viewing Angle	78°
Panning Angle	+170° ~ -170°
Panning Speed	300°/ sec
Tilting Angle	+90° ~ -30°
Tilting Speed	300°/ sec
Aperture	F1.6 ~ F3.4
Focal Length	4.6mm ~ 135mm
Shutter Speed	1/1 ~ 1/10,000 sec
Minimum Object Dis tance	1.5m (Wide / Tele)
Video S/N Ratio	> 50dB
Minimum Illumination	0.1 lux (F1.6, 50IRE, 30fps)
Focus Sys tem	Auto / Manual
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual

WDR	Yes
3D NR	Yes
Image Flip	Yes
Preset Positions	256
Multiple Video Stream	H.264 4K30fps H.264 640x360 30fps *HDMI/SDI output 1080i60, NDI streams 1080p60
Audio Compression Format	AAC
Control Interface	RS-232 / RS-422 / Ethernet
Control Protocol	VISCA / PELCO D / NDI
Tally Light	Yes
PoE	PoE+ (IEEE802.3at)
Video Stream	NDI
Video Compression	H.264
Audio Input	Line In / MIC In (Phone Jack 3.5mm x1)
Audio Output	Ethernet / SDI / HDMI
IR Pass-through	Yes
IR Receiver	Yes
IR Remote control	Yes
DC In	12V +/- 20%
Power Consumption	PoE : 18W DC In : 16W
Weight	4.4 lbs (2 kg)
Dimensions	6.9" x 7.5" x 7.3" (174 x 190 x 187 mm)

Compatible Software

I/O Connections

Lumens®

VC-A51P
Full HD PTZ Camera

FHD 1080p · **20x** · **HDMI** · **PoE+**

Flexible 1080p 60fps PTZ camera with 20x zoom, 3G-SDI, HDMI and IP streaming.

Lumens VC-A51P is an advanced PTZ camera which is ideal for conference production, lecture capture, houses of worship and live events. The VC-A51P supports live production workflows thanks to its HDMI and SDI connectivity and is compliant with all major live streaming services including YouTube and Facebook, and learning platforms such as Panopto and Kaltura.

Key Features

- Professional Sony image sensor
- Supports 1080p at 60fps
- Versatile 20x optical zoom
- Delivers HD video output via Ethernet, HDMI, and 3G-SDI simultaneously
- 5-year warranty*

TAA COMPLIANT · **5 year Warranty**

Outstanding Color Reproduction

With 1080p resolution, the VC-A51P can be used in demanding AV or broadcast environments. Its 1/2.8" 2.16MP Sony CMOS sensor delivers faithful colors and excellent levels of detail even in low light conditions. Pictures are captured with a natural look whether projected onto a big screen or streamed to mobile users.

High-Precision Autofocus

Lumens' autofocus system is fast and accurate, and able to track subjects in motion. This level of automation gives users the confidence to concentrate on framing the picture, leaving the camera to deliver sharp images without user input.

Adaptive Robotic Control

With high precision motor control, the VC-A51P can run at a speed required by the user. At very low speeds, the camera remains stable without juddering. At high speeds, the smoothness of the motors avoids distracting image blur.

Local and Remote Production

Equipped with DC power and Power over Ethernet (PoE+), RS-232, RS-422 and Ethernet control interfaces, and featuring live video-over-IP monitoring, The VC-A51P gives users a tremendous level of flexibility. The camera can be controlled and monitored locally or remotely over an IP network. Its versatility means that it is ready for all the production challenges that you face.

Applications

Live Events & Conferences
Stream events, graduations, presentations and ceremonies to on-site and remote audiences.

Higher-Ed Classroom
Engage more effectively with remote students with live streaming and high quality video on demand.
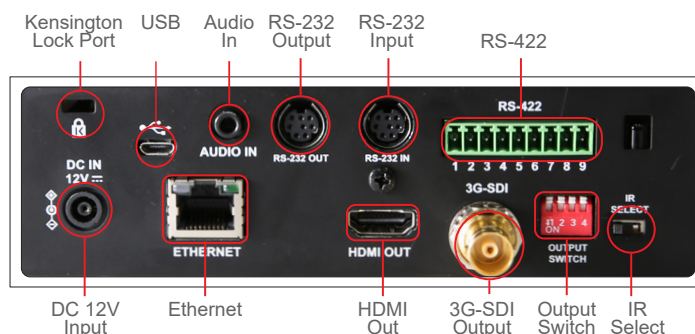

House of Worship
Houses of worship incorporate live streaming to extend their reach among worshippers.

Product Specifications

Camera	
Sensor	1/2.8" 2.16MP CMOS
Video Format	1080p: 60 / 59.94 / 50 / 30 / 29.97 / 25 1080i: 60 / 59.94 / 50 720p: 60 / 59.94 / 50
Video Output (HD) Interface	3G-SDI / HDMI / Ethernet
Optical Zoom	20x
Viewing Angle	57° (H) / 32.1° (V) / 65.4° (D)
Aperture	F1.6 ~ F3.8
Focal Length	5.33mm ~ 110mm
Shutter Speed	1/1 ~ 1/10,000 sec
Minimum Object Distance	1.5m (Wide/Tele)
Video S/N Ratio	> 50dB
Minimum Illumination	1.0 lux (F1.6, 50IRE, 30fps)
Focus Sys tem	Auto / Manual
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual
WDR	Yes
3D NR	Yes
Image Flip	Yes
Tally Light	Yes

Pan & Tilt	
Panning Angle	+170° ~ -170°
Panning Speed	300°/sec
Tilting Angle	+90° ~ -30°
Tilting Speed	300°/sec
Preset Positions	128

Output	
HDMI / 3G-SDI	1080p60
IP Stream	H.264 1080p 60fps H.264 / MJPEG D1 30fps
IP Compression	H.264 / MJPEG

Network	
IP Protocol	RTSP / RTMP / MPEG-TS / SRT
PoE	PoE+ (IEEE802.3at)

Audio	
Input	Line In / MIC In
Output	Ethernet / SDI / HDMI
Compression Format	AAC / G.711

Camera Control	
Interface	RS-232 / RS-422 / Ethernet
Protocol	VISCA / VISCAIP / PELCO D / ONVIF
IR Pass-through	Yes
IR Receiver	Yes
IR Remote Control	Yes

General	
DC In	12V +/- 20%
Power Consumption	PoE: 18.5W DC In: 17W
Weight	4.4 lbs (2 kg)
Dimensions (W x H x D)	6.9" x 7.3" x 7.3" (174 x 186 x 187 mm)

I/O Connections

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.
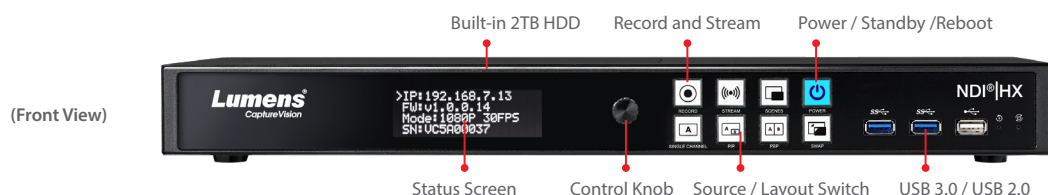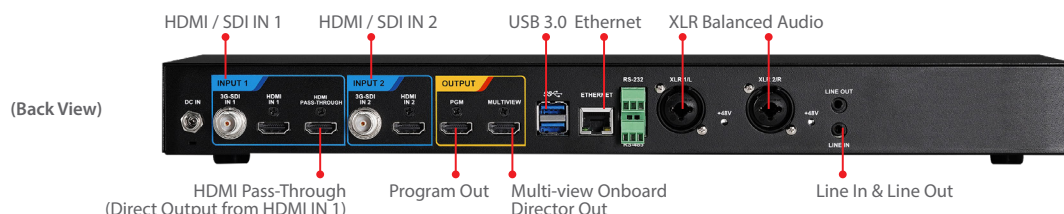
Product Specifications

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 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, NDI |HX, 16K/44.1K/48K) Support UAC

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