Lumens®

NDI|HX

VC-A61PN
4K NDI®|HX PTZ Camera

| 4K 60fps | 30x | NDI | PoE+ |

VC-A61PN supports NDI®, the popular video networking format. Once connected to the local area network, it is available to the production desk as an NDI® video source, controlled by software or a dedicated hardware device. The bandwidth requirement for an NDI®|HX HD 60fps video stream with audio and control data is minimal, between 8 and 20 Mb/s. Using this highly efficient format, multiple cameras can be used to distribute high-quality, low latency video without overwhelming the IP network.
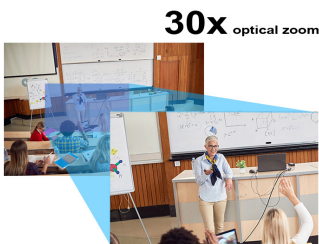
Key Features

- Delivers UHD at 60fps and 1080P at 60fps
- Supports Newtek's NDI®|HX* for video networking and low latency IP production
- Powerful 30x zoom lens, with 68 degrees horizontal field of view at its widest setting
- Easy installation: delivers video output via Ethernet, HDMI, and 3G-SDI simultaneously
- 5-year warranty as standard

Future-proofing

With a choice of 4K or 1080p output, the Lumens VC-A61PN is ideal for all your production and AV requirements. The CMOS sensor is partnered with a high brightness lens which enables the camera to excel in virtually every lighting condition. It makes the VC-A61PN a great PTZ, whether installed in a studio, theater, conference hall or sports center.

30x optical zoom

Optical Performance

The 30x lens allows users to zoom in close from the back of a venue or shoot wide to capture a full conference panel thanks to its 68 degree horizontal viewing angle. For extreme close shots, a digital zoom can be deployed, while 3D noise reduction maintains clear pictures and excellent results.

Video Workflow Flexibility

Featuring HDMI, 3G-SDI, and Ethernet outputs, the VC-A61PN can be integrated with almost any AV, broadcast, or IP workflow. While all models deliver simultaneous H.264 and HEVC streaming, the inclusion of NDI®|HX adds support for fast integration with NDI® infrastructures. Such a broad range of video outputs means that the camera is ready to fulfill a wide variety of roles – as a PTZ camera source for lecture capture, live event production, or video streaming direct to YouTube or Facebook.

AV Integration and Control

Lumens VC-A61PN supports both PoE (Power over Ethernet) and a 12v DC input. It also features dedicated RS-232 in-out ports, RS-422 and Ethernet-based control protocol support (including Crestron, Extron, Visca, Pelco D, NDI and Onvif). This gives the camera an unparalleled level of flexibility: whatever the video workflow, whatever the AV integration, VC-A61PN is ready to take the complexity out of camera installation and management.
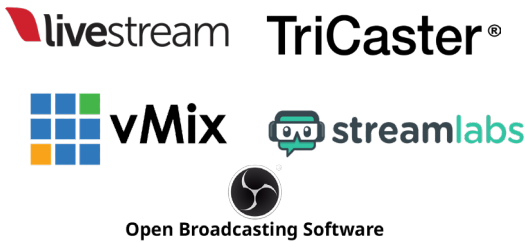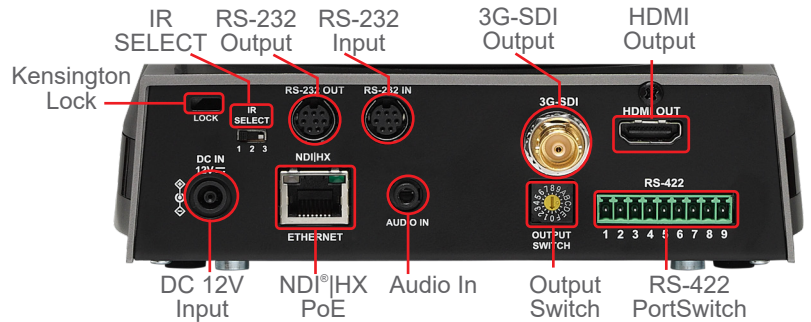
Product Specifications

Camera	
Sensor	1/2.5" 8.57MP CMOS
Video Format	2160p: 59.94 / 50 / 29.97 / 25 1080p: 59.94 / 50 / 29.97 / 25 720p: 59.94 / 50 / 29.97 / 25 1080i: 59.94 / 50
Video Output (HD) Interface	3G-SDI, HDMI, Ethernet
Optical Zoom	30x
Digital Zoom	12x
Viewing Angle	68°(H) / 38.3°(V) / 78°(D)
Aperture	F1.6~F3.4
Focal Length	4.6mm~135mm
Shutter Speed	1/1 ~ 1/10,000 sec
Minimum Object Distance	1.5m (Wide/Tele)
Video s/n Ratio	>50dB
Minimum Illumination	0.1 lux (F1.6, 50IRE, 30fps)
Focus System	Auto / Manual / Smart AF
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual
WDR	Yes
3D NR	Yes
Image Flip	Yes
AR/VR Systems	FreeD
NDI Genlock	Yes
Tally Light	Yes

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

Output	
HDMI / 3G-SDI	HDMI Output: 2160p59.94 3G-SDI Output: 1080p59.94
IP Stream	NDI: HEVC(H.265) 4K59.94fps H.264 640x360 29.97fps or RTSP: HEVC(H.265) 4K 59.94fps H.264 1080p 59.94fps H.264 640x360 29.97fps
IP Compression	H.264/ HEVC(H.265)

Pan & Tilt	
Panning Angle	+170° ~ -170°
Panning Speed	300°/ sec
Tilting Angle	+90° ~ -30°
Tilting Speed	300°/ sec
Preset Positions	256

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

Camera Control	
Interface	RS-232 / RS-422 / Ethernet / Remote
Protocol	VISCA / VISCAIP / PELCO D / NDI / ONVIF

General	
DC In	12V +/- 20%
Power Consumption	PoE: 18W DC In: 16W
Weight	2 kg (4.4 lbs)
Dimensions	174 x 190 x 187 mm

Compatible Software

livestream TriCaster ®

vMix streamlabs

Open Broadcasting Software

I/O Connections

IR SELECT RS-232 Output RS-232 Input 3G-SDI Output HDMI Output

Kensington Lock

DC 12V Input NDI®|HX PoE Audio In Output Switch RS-422 PortSwitch