

# Lumens®



## NDI® |HX3



# VC-A71P-HN

## 4K NDI® PTZ Camera with Full NDI and NDI® |HX3



\*NDI® is a registered trademark of Vizrt Group.

Lumens® VC-A71P-HN is a 4K 60fps PTZ camera with 12G-SDI, high bandwidth NDI and NDI®|HX3 outputs. Its support for Rec.709 and BT.2020 color spaces make the camera suitable for HD and UHD TV workflows. Featuring genlock and the FreeD protocol, VC-A71P-HN can be used in demanding multi-camera productions including broadcast studios, remote locations, concert halls, sports arenas and virtual sets.

### Key Features

- 4K 60 fps, 30x Optical Zoom, 1/1.8" Sensor
- HDMI / 3G-SDI / 12G-SDI / IP / USB
- Genlock Support
- Rec.709 / BT.2020 Support
- Full NDI / NDI|HX3 / RTSP / RTMP / RTMPS / MPEG- TS / SRT Support
- FreeD Protocol for Live VR/AR Production
- 802.1x Support



### NDI® High Bandwidth

Featuring full NDI, VC-A71P-HN delivers high-quality video over IP networks with ultra-low latency. Visually lossless, the I-Frame NDI codec is suitable for use in high-end video and TV production, live events and studios.



### NDI® |HX3 Technology

VC-A71P-HN supports the latest version of the NDI protocol, NDI®|HX3. It delivers high-quality video with very low latency and connects directly to NDI® networks. VC-A71P-HN outputs NDI®|HX3 and full NDI output simultaneously.



### Broadcast Connections

VC-A71P-HN is equipped with dual SDI ports (12G and 3G) and a genlock connector to synchronize broadcast equipment. The camera can be powered over the Ethernet (PoE++); the network port can also be used for SRT and MPEG- TS output, as well as standard webstreaming protocols.



### BT.2020/Rec.709

Lumens VC-A71P-HN supports the BT.2020 color gamut for wide and precise color reproduction. With BT.2020, VC-A71P-HN can be matched with other cameras and deliver video output optimized for new generation UltraHD monitors.

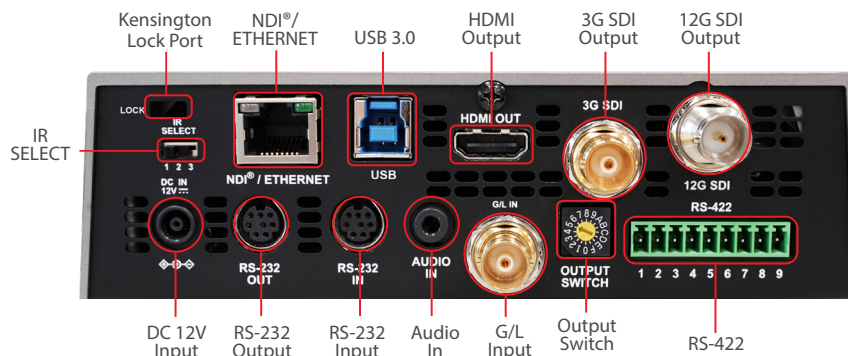


# Product Specifications

Camera	
<b>Sensor</b>	1/1.8" 9.17 MP CMOS
<b>Video Format</b>	2160p: 59.94 / 50 / 29.97 / 25 1080p: 59.94 / 50 / 29.97 / 25 1080i: 59.94 / 50 720p: 59.94 / 50
<b>Video Output Interface</b>	HDMI / Ethernet / 12G-SDI / 3G-SDI / USB 3.0
<b>Genlock</b>	Yes
<b>Optical Zoom</b>	30x
<b>Digital Zoom</b>	12x
<b>Horizontal Viewing Angle</b>	63° (Wide) to 3.7° (Tele)
<b>Vertical Viewing Angle</b>	35.4° (Wide) to 2.1° (Tele)
<b>Diagonal Viewing Angle</b>	72.3° (Wide) to 4.2° (Tele)
<b>Aperture</b>	F1.6 ~ F4.8
<b>Focal Length</b>	6.5mm ~ 202mm
<b>Shutter Speed</b>	1/1 ~ 1/10,000 sec
<b>Minimum Object Distance</b>	1.5m (Wide / Tele)
<b>Video S/N Ratio</b>	> 50dB
<b>Minimum Illumination</b>	0.05 lux (F1.6, 50IRE, 30fps)
<b>Focus System</b>	Auto / Manual / Smart AF
<b>Gain Control</b>	Auto / Manual
<b>White Balance</b>	Auto / Manual
<b>Exposure Control</b>	Auto / Manual / Smart AE
<b>IQ Sync</b>	Yes
<b>WDR</b>	Yes
<b>3D NR</b>	Yes
<b>Image Flip</b>	Yes
<b>Color Space</b>	Standard / BT.2020 / REC.709
<b>AR/VR Systems</b>	FreeD
<b>NDI Genlock</b>	Yes
<b>Tally Light</b>	Yes
Pan & Tilt	
<b>Panning Angle</b>	+170° ~ -170°
<b>Panning Speed</b>	0.01 ~ 300°/sec
<b>Tilting Angle</b>	+90° ~ -30°
<b>Tilting Speed</b>	0.01 ~ 300°/sec
<b>Preset Positions</b>	256

Output	
<b>HDMI / 12G-SDI</b>	2160p 59.94fps
<b>IP Stream</b>	NDI : HEVC 4K 59.94fps H.264 640x360 29.97fps or RTSP : HEVC 4K 59.94fps H.264 1080p 59.94fps H.264 640x360 29.97fps
<b>IP Compression</b>	HEVC / H.264
<b>USB Output</b>	H.264 4K30fps MJPEG 1080p 30fps
<b>USB Compression</b>	H.264 / MJPEG
Network	
<b>IP Protocol</b>	NDI High Bandwidth / NDI HX3 / NDI HX2 / RTSP / RTMP / RTMPS / MPEG-TS / SRT
<b>PoE</b>	PoE++ (IEEE802.3bt)
Audio	
<b>Input</b>	Line In/MIC In , Phone Jack 3.5mm x1
<b>Output</b>	Ethernet / 12G-SDI / 3G-SDI / HDMI2.0 / USB 3.0
<b>Compression Format</b>	IP : G.711 USB : PCM
Camera Control	
<b>Interface</b>	RS-232 / RS-422 / Ethernet / USB 3.0 / Remote
<b>Protocol</b>	VISCA / VISCAIP / ONVIF / PELCO D / NDI / UVC / UAC
General	
<b>DC In</b>	12V +/- 20%
<b>Power Consumption</b>	PoE : 40W DC In : 40W
<b>Weight</b>	6.6 lbs (3 kg)
<b>Dimensions</b>	9.1" x 7.4" x 7.4" (232 x 188 x 189mm )

## I/O Connections



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