



NDI HX3



VC-A71SN

4K NDI® PTZ Camera
with NDI HX3 and 12G-SDI



*NDI® is a registered trademark of Vizrt Group.

Lumens® VC-A71SN is a 4K 60fps PTZ camera with 12G-SDI and NDI HX3 outputs. These give users the option to join UltraHD broadcast workflows or transmit low latency UHD video over IP networks. Supporting professional color spaces, SRT and featuring the FreeD protocol, VC-A71SN can be used in demanding environments including broadcast studios, remote locations, concert halls, sports arenas and virtual sets.

Key Features

- 2160P 60, 30x Optical Zoom, 1/1.8" Sensor
- 12G-SDI, HDMI, Ethernet, USB3.0 Output
- NDI HX3 / NDI HX2 / RTSP / RTMP / RTMPS / MPEG-TS / SRT
- FreeD Protocol for Live VR/AR Production
- BT.2020 Color Space Support



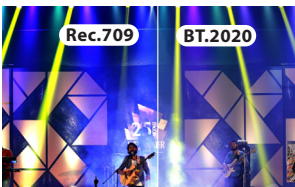
NDI HX3 Technology

VC-A71SN supports the latest version of the NDI protocol, NDI HX3. It delivers very high quality video with ultra-low latency and connects directly to NDI® networks.



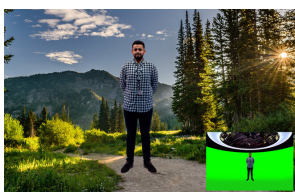
12G-SDI

Lumens VC-A71SN is equipped with an 12G-SDI video output. This port delivers UltraHD at up-to 60 frames a second, meaning it can capture fast motion and deliver smooth video output.



BT.2020/Rec.709

Lumens® VC-A71SN supports the BT.2020 color gamut for wide and precise color reproduction. With BT.2020, VC-A71SN will be easy to match other cameras and deliver video output optimized for new generation UltraHD monitors.



Live VR/AR Video Production

VC-A71SN supports the FreeD protocol. This enables users to work with Virtual Reality and Augmented Reality sets without the need for additional sensors.



Smooth PTZ Movement

With high-precision motor control and Lumens' innovative mechanical transmission mechanism, VC-A71SN achieves smooth, high-speed movement without any judder. The speed of movement is fully customizable.

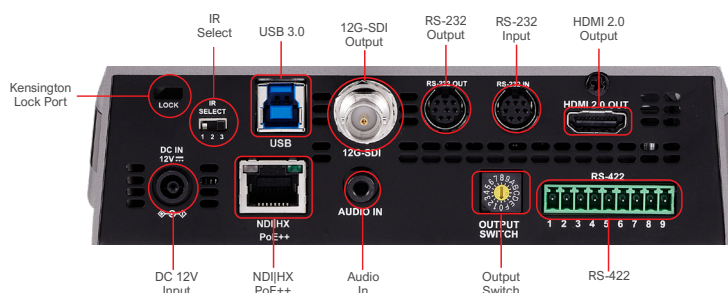


Product Specifications

Camera	
Sensor	1/1.8" 9.17 MP CMOS
Video Format	2160p: 59.94 / 50 / 29.97 / 25 1080p: 59.94 / 50 / 29.97 / 25 1080i: 59.94 / 50 720p: 59.94 / 50
Video Output (HD) Interface	12G-SDI / HDMI 2.0 / Ethernet / USB 3.0
Optical Zoom	30x
Digital Zoom	12x
Horizontal Viewing Angle	63° (Wide) to 3.7° (Tele)
Vertical Viewing Angle	35.4° (Wide) to 2.1° (Tele)
Diagonal Viewing Angle	72.3° (Wide) to 4.2° (Tele)
Aperture	F1.6 ~ F4.8
Focal Length	6.5mm ~ 202mm
Shutter Speed	1/1 ~ 1/10,000 sec
Minimum Object Distance	1.5m (Wide / Tele)
Video S/N Ratio	> 50dB
Minimum Illumination	0.05 lux (F1.6, 50IRE, 30fps)
Focus System	Auto / Manual / Smart AF
Gain Control	Auto / Manual
White Balance	Auto / Manual
Exposure Control	Auto / Manual / Smart AE
IQ Sync	Yes
WDR	Yes
3D NR	Yes
Image Flip	Yes
Color Space	Standard / BT.2020 / REC.709
AR/VR Systems	FreeD
NDI Genlock	Yes
Tally Light	Yes
Pan & Tilt	
Panning Angle	+170° ~ -170°
Panning Speed	300°/sec
Tilting Angle	+90° ~ -30°
Tilting Speed	300°/sec
Preset Positions	256

Output	
HDMI / 12G-SDI	2160p 59.94
IP Stream	NDI : HEVC(H.265) 4K 59.94fps 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)
USB Output	H.264 4K 30fps MJPEG 1080p 30fps
USB Compression	H.264 / MJPEG
Network	
IP Protocol	NDI HX3 / NDI HX2 / RTSP / RTMP / RTMPS / MPEG-TS / SRT
PoE	PoE++ (IEEE802.3bt)
Audio	
Input	Line In/MIC In , Phone Jack 3.5mm x1
Output	Ethernet / 12G-SDI / HDMI 2.0 / USB 3.0
Compression Format	AAC / G.711 / PCM
Camera Control	
Interface	RS-232 / RS-422 / Ethernet / USB 3.0 / Remote
Protocol	VISCA / VISCAIP / ONVIF / PELCO D / NDI / UVC
General	
DC In	12V +/- 20%
Power Consumption	PoE : 27.5 W DC In : 27 W
Weight	6.6 lbs (3 kg)
Dimensions (WxHxD)	9.1" x 7.4" x 7.4" (232 x 188 x 189 mm)

I/O Connections



Lumens®

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