



# 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.



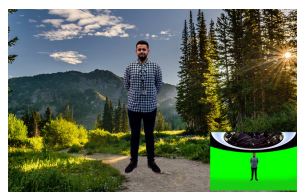
### 12G-SDI

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.

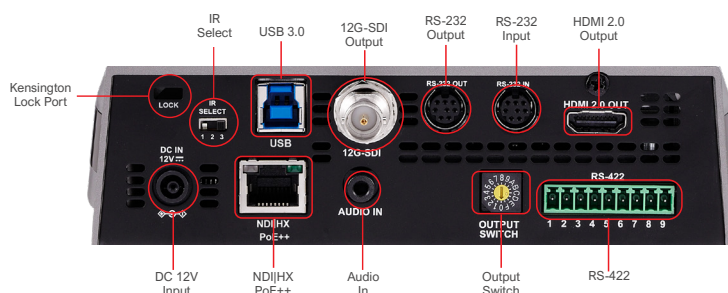


## Product Specifications

| Camera                      |                                                                                                           |
|-----------------------------|-----------------------------------------------------------------------------------------------------------|
| Sensor                      | 1/1.8" 9.17 MP CMOS                                                                                       |
| Video Format                | 2160p: 59.94 / 50 / 29.97 / 25<br>1080p: 59.94 / 50 / 29.97 / 25<br>1080i: 59.94 / 50<br>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 :<br>HEVC(H.265) 4K 59.94fps<br>H.264 640x360 29.97fps<br>or<br>RTSP :<br>HEVC(H.265) 4K 59.94fps<br>H.264 1080p 59.94fps<br>H.264 640x360 29.97fps |
| IP Compression     | H.264 / HEVC(H.265)                                                                                                                                     |
| USB Output         | H.264 4K 30fps<br>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<br>DC In : 27 W                                                                                                                            |
| Weight             | 6.6 lbs (3 kg)                                                                                                                                          |
| Dimensions (WxHxD) | 9.1" x 7.4" x 7.4"<br>(232 x 188 x 189 mm)                                                                                                              |

## I/O Connections



# Lumens®

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