



VISION+ SE

Advanced 4K60 PTZ Camera with Native Auto-Tracking and NDI®HX3 Integration

Elevate Your Live Broadcasting with Elite Capabilities

The Vision+ SE is a true 4K60 12X PTZ camera equipped with an integrated native auto-tracking feature. It seamlessly integrates with the latest NDI® SDK.

Incorporating the most advanced American image processing solution and featuring a cutting-edge Sony 1/2.8-inch 8.4MP sensor and Telycam's proprietary video camera algorithms, it effortlessly captures 4K60 ultra HD images with true-to-life colors, even in challenging low-light or high-contrast environments.

Its sleek PTZ mechanical design ensures precise pan, tilt, and zoom movements. NDI®HX3 allows it to output up to 4K UHD resolution, while 3G-SDI and USB2.0 provide Full HD resolution output, making it an ideal choice for professional live streaming applications.

Furthermore, it offers line-in audio input, enabling simultaneous audio and video output from both NDI®HX3 and 3G-SDI(or HDMI) sources.

**NDI®HX3/3G-SDI (OR HDMI)
12X | 4K60 | AUTO-TRACKING**



Unparalleled 4K UHD Brilliance

Equipped with cutting-edge image processor, Vision+ SE outputs 4Kp60/59.94 video for clear, sharp, lifelike images even in low-light environments.



One-Touch Auto-Tracking Precision

The Vision+ SE offers AI-powered auto-tracking with no third-party tools required. The auto-tracking can be instantly activated with a simple click in the Web UI, remote control, or Telycam V-Joy+ keyboard. Tracking can be customized effortlessly for specific people, areas or sizes.



Enhanced Reality with FreeD

Bridging worlds with the embedded FreeD protocol. Easily sync PTZ data with your VR/AR systems, expanding your creative possibilities.



Magnify with 12x Optical Mastery

With a 4K 12X optical zoom and an expansive 80.5-degree FOV, coupled with a custom focusing algorithm, every zoom and pan translates to a journey through intricate details.



Adaptable Streaming Elegance

Our camera adapts seamlessly with NDI®HX3 output at 4Kp60/59.94, 3G-SDI(A/B levels), and USB-C up to 1080p60/59.94, enhancing streaming versatility.



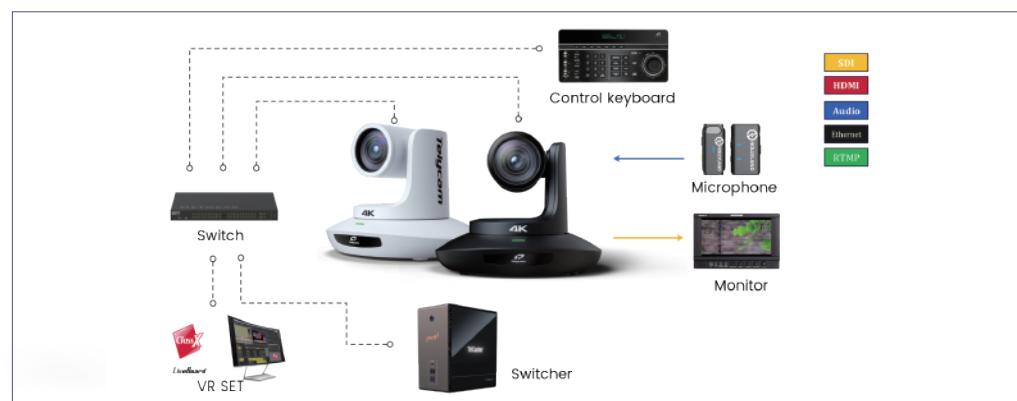
Integrated NDI® Ecosystem

Integrated with Newtek's NDI® SDK, our camera is a cornerstone in the plug-and-play live streaming universe.



Intuitive Tally Indication

The camera's indicator doubles as a Tally light, synchronizing with NDI® device notifications and monitoring your live stream's status.



Specifications

Camera	Vision+ SE
Part Number	TLC-300-IP-12-4K(NDI)-AB-SE-NDI
Sensor	1/2.8 inch, 9MP UHD CMOS sensor
Zoom	12X optical zoom
Lens	f=3.4mm~40.3 mm, F1.8~F3.6
Horizontal View Angle	80.5°(Wide)~7.6°(Tele)
Minimum Working Distance	Wide: 1m Tele: 1.5m
Vertical Viewing Angle	50.0°~4.4°
Diagonal Viewing Angle	88.9°~8.7°
S/N Ratio	≥50dB
Video Format	<p>NDI®HX3: Main Stream: 3840*2160P15~60; 1920*1080P15~60; 1280*720P15~60; 1024*576P15~60; Sub Stream: 640*360P15~30</p> <p>3G-SDI: 1920*1080P60/59.94/50/30/29.97/ 25/24/23.98; 1920*1080I60/59.94/50; 1280*720P60/59.94/50/30/29.97/25</p> <p>HDMI: 3840*2160P15~60; 1920*1080P15~60; 1280*720P15~60; 1024*576P15~60;</p> <p>USB Type-C: NV12: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30; YUYV: 1920*1080P5; 1280*720P15; 1024*576P25; 800*448P30; MJPG: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60; H264/H265: 3840*2160P30; 1920*1080P60; 1280*720P60; 1024*576P60; 800*448P60</p>
Image Parameters	
Noise Reduction	2D&3D
Minimum lux	0.5 lux(50 IRE Max AGC, 1/30, F1.8)
White Balance	Auto/Manual/ATW/Push/Indoor/Outdoor/Color Temperature
Exposure	Auto/Manual/Shutter Priority/Iris Priority/Brightness Priority
Anti-Flicker	OFF, 50Hz, 60Hz
Image Flip	Supported
Mirroring	Supported
Focus	Auto/Manual
Iris	Auto/Manual
Electronic-shutter	Auto/Manual
Gamma	Supported
Backlight Compensation	Supported

IP Streaming	
Video Encoding	H.264/H.265
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~122800Kbps
Network Port Speed	1000M
Protocol	NDI®HX3, SRT, HTTP, HTTPS, RTSP, RTMP, RTMPS, ONVIF, VISCA over IP(TCP&UDP), VISCA, PELCO P/D, SSDP, FreeD, NTP, RTP Multicast, WebRTC, MPEG-TS
Pan/Tilt Movement	
Preset	Remote controller: 10; Serial port: 256; Accuracy: 0.1°
Pan Rotation Angle	-170°~+170°
Tilt Rotation Angle	-30°~+90°
Pan Rotation Speed	0.1°~120°/s
Tilt Rotation Speed	0.1°~80°/s
I/O Interface	
Control Port	RS232(RS485), NDI®HX3
Video Port	NDI®HX3, 3G-SDI, USB Type-C
Audio Port	stereo 3.5mm linear inputs
Tally	Supported
POE+	Supported
Daisy Chain	Supported
General	
Input Voltage	DC12V, POE+(IEEE802.3at)
Operating Temperature	-10°C~50°C
Operating Humidity	≤80%
Dimension (LxWxH)	220mmx190mmx173mm
Net Weight	1.5kg(3.3LBS)
Color	Black/White

Audio Input
 3.5mm stereo line in

Remote control port
 RS232, RS485



Video Output
 USB Type-C, HDMI (or 3G-SDI), NDI®HX3

Power Supply
 POE+, DC12V