



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 PTZF 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

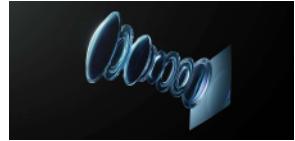
Our camera adapts seamlessly with NDI®HX3 output at 4Kp60/59.94, 3G-SDI(A/B levels), and USB-C up to 1080p60/59.94, enhancing streaming versatility.

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-SDI	TLC-300-IP-12-4K(HDMI)-AB-SE-HDMI
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	NDI®HX3:	
	Main Stream:	
	3840*2160P15~60; 1920*1080P15~60;	
	1280*720P15~60; 1024*576P15~60;	
	Sub Stream: 640*360P15~30	
	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	
	HDMI:	
	3840*2160P15~60;	
	1920*1080P15~60;	
	1280*720P15~60;	
	1024*576P15~60;	
	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	

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		NDI®HX3, HDMI, 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℃~50℃		
Operating Humidity	≤80%		
Dimension (LxWxH)	220mmx190mmx173mm		
Net Weight	1.5kg(3.3LBS)		
Color	Black/White		

Audio Input

3.5mm stereo line in

Power Supply

POE+, DC12V

Remote control port

RS232, RS485



Video Output

USB Type-C, HDMI (or 3G-SDI), NDI®HX3