



VISION+ SE

ADVANCED 4K60 PTZ CAMERA WITH NATIVE AUTO-TRACKING
AND NDI® |HX INTEGRATION



NDI® |HX/3G-SDI | 12x | 4K60 | Auto-tracking

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® |HX 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® |HX and 3G-SDI sources

Application



Key features

◆ Unparalleled 4K UHD Brilliance

Harnessing state-of-the-art image processing, our camera takes the visual narrative a notch higher, effortlessly streaming ultra-HD video at 4Kp60/59.94. Dive into a world of breathtaking clarity, where every shade and nuance shines, even in subdued lighting.

◆ One-Touch Auto-Tracking Precision

Eliminate the need for third-party tools. With a straightforward click—be it through WebUI, remote control, or Telycam's specialized keyboard—the integrated auto-tracking leaps into action. Tailor your tracking to specific talents, regions, or dimensions with unmatched ease.

◆ Enhanced Reality with FreeD

Bridging worlds, we've embedded the FreeD protocol. Now effortlessly sync PTZF data with your VR/AR systems, opening new dimensions in your creative arsenal.

◆ Magnify with 12x Optical Mastery

Our lens isn't just about capturing; it's about immersing. Flaunting a 4K 12x optical zoom and a generous 80.5-degree FOV, paired with a custom focusing algorithm, every zoom and pan translates to a journey through intricate details.

◆ Adaptable Streaming Elegance

Versatility redefined. Whether it's NDI® |HX output touching 4Kp60/59.94, the fidelity of 3G-SDI (both A and B levels), or USB-C pushing up to 1080p60/59.94, our camera gracefully adapts, making it an asset in varied streaming landscapes.

◆ Integrated NDI® Ecosystem

Seamlessly woven with Newtek's NDI® SDK, our camera stands as a cornerstone in the plug-and-play universe of live streaming. Dive into an ocean of possibilities, crafting content that's as diverse as it is captivating.

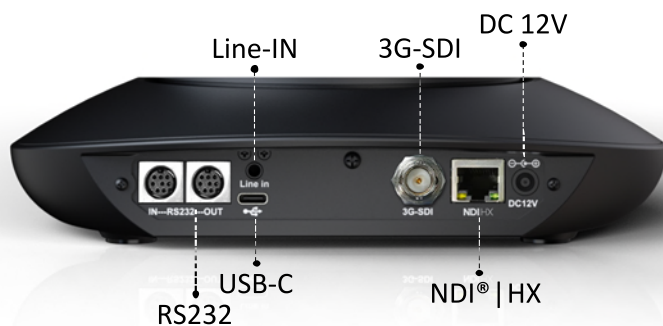
◆ Intuitive Tally Indication

No more second-guessing. Our camera's indicator doubles as a Tally light, syncing with NDI® device notifications. At a single glance, gauge the pulse of your live stream—whether it's rolling or paused.

Specification

Camera	Vision+ SE
Part NO.	TLC-300-IP-12-4K(NDI)-AB-SE
Sensor	1/2.8 inch, 8.4MP 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)
Shortest Focus 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® HX: 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
	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	0.5Lux(50 IRE Max AGC,1/30,F1.8)
White Balance	Auto/Manual/Auto tracking/Push/Indoor/Outdoor/Color Temperature
Exposure	Auto/Manual/Shutter Priority/Iris Priority/Brightness Priority
Anti-Flicker	OFF, 50Hz, 60Hz
Image Flip	Support
Mirroring	Support
Focus	Auto/Manual
Iris	Auto/Manual
Electronic-shutter	Auto/Manual
Gamma	Support
Backlight Compensation	Support

IP Streaming	
Video Encoding	H.264/H.265
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~ 61440Kbps
Network Port Speed	1000M
Protocol	NDI® HX, SRT, HT TP, RTSP, RTMP, ONVIF, VISCA over IP,TCP, UDP VISCA, PELCO P/D
Pan/Tilt Movement	
Preset	Remote controller: 10; Serial port: 128; 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® HX
Video Port	NDI® HX, HDMI2.0, 3G-SDI, USB Type-C
Audio Port	3.5mm stereo line in
Tally	Support
POE+	Support
Daisy Chain	Support
General	
Input Voltage	DC12V , POE+(IEEE802.3at)
Operating Temperature	-10℃~50℃
Operating Humidity	≤80%
Dimension (L×W×H)	220mm×190mm×173mm
Net Weight	1.5kg(3.3LBS)
Color	Black/White



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