



VISION+ 4KN

4K60 NDI® | HX AUTO TRACKING LIVE STREAMING PTZ VIDEO CAMERA



NDI® | HX | 12x/20x/30x | 4K60 | Auto-tracking

Deliver High-End Features for Live Broadcasting

Vision+ 4KN is a new series PTZ camera from Telycam, built-in native auto-tracking feature, integrated with the latest NDI®SDK, and equipped with American most advanced image processing solution to output 4K60 sharp image.

It has smooth PTZ mechanical design, to make accurate pan, tilt, and zoom movement.

NDI®|HX, HDMI2.0, SDI and USB2.0 simultaneously output 4K UHD and Full HD resolution, ideal for professional live streaming applications.

Line in audio input, the audio can output with video simultaneously from NDI®|HX, HDMI2.0, SDI.

With 12x, 20x and 30x optical zoom available, the Vision+ 4KN can fit seamlessly into any production scenario.

Application



Key features

◆ 4K UHD resolution

Equipped with the cutting-edge image processing solution to output an ultra-high-definition video resolution of 4Kp60/59.94 to display clear, sharp, and lifelike images to the users, even in low-light working environments.

◆ Built-in auto tracking function

With built-in auto-tracking function, you don't need any third-party software or device, just turn on with one click on the WebUI, matching remote control or Telycam's control keyboard, and you can track the target accurately and smoothly without any outside interference. You can also switch the target talent, or set the target area, or change the target size.

◆ FREE D

Build-in FreeD protocol to exchange Telycam PTZ cameras' PTZF data with your VR/AR systems.

◆ 12x/20x/30x optical zoom

The Vision+ 4KN is available in 12x, 20x and 30x optical zoom, embedded with a 80.5° FOV, 61° FOV and 60.5° FOV lens respectively. Moreover, its proprietary focusing algorithm enables fast and precise focus performance when zooming or moving, capturing every detail of the scene.

◆ NDI®|HX /3G-SDI/HDMI2.0/USB2.0 Available

With full video output interface, NDI®|HX and HDMI2.0 output max up to 4Kp60/59.94 resolution simultaneously, 3G-SDI (Level A and B) outputs 1080p60/59.94, while the USB-C output supports up to 4K30 at the same time.

Specification

Camera	Vision+ 4KN 12x	Vision+ 4KN 20x	Vision+ 4KN 30x
Part Number	TLC-300-IP-12-4K(NDI)-AB	TLC-700-IP-20-4K(NDI)-AB	TLC-700-IP-30-4K(NDI)-AB
Sensor	1/2.8 inch, 8.4MP UHD CMOS Sensor	1/1.8 inch, 9MP UHD CMOS Sensor	1/1.8 inch, 9MP UHD CMOS Sensor
Zoom	12X optical zoom	20X optical zoom	30X optical zoom
Lens	f= 3.4mm ~ 40.3 mm, F1.8 ~ F3.6	f= 6.25mm ~ 1125 mm, F1.58 ~ F3.95	f= 6.91~214.64mm, F1.35 ~ F4.6
Horizontal View Angle	80.5°(Wide)~ 7.6°(Tele)	61°(Wide) ~ 3.5°(Tele)	63°(Wide) ~ 2.1°(Tele)
Vertical Viewing Angle	50.0°~ 4.4°	34.1°~ 1.9°	34.14°~ 1.12°
Diagonal Viewing Angle	88.9°~8.7°	60.7°~ 3.5°	67.08°~ 2.27°
Minimum Working Distance	1.0m	1.0m	1.5m
S/N Ratio	≥50dB		
Video Format	HDMI2.0: 3840*2160P60/59.94/50/30/29.97/25 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		
	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	12x:0.5Lux (50 IRE Max AGC,1/30,F1.8)	20x:0.5Lux (50 IRE Max AGC,1/30,F1.8)	30x: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, HTTP, RTSP, RTMP, ONVIF, VISCA over IP, TCP, UDP, VISCA, PELCO P/D, HTML5, Webrtc, RTP Multicast		
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	12x: 0.1°~120°/s	20x: 0.1°~120°/s	30x: 0.1°~80°/s
Tilt Rotation Speed	12x: 0.1°~80°/s	20x: 0.1°~80°/s	30x: 0.1°~60°/s
I/O Interface			
Control Port	RS232(RS485), NDI® HX		
Video Port	NDI® HX, HDMI2.0, 3G-SDI, USB Type-C		
Audio Port	Dual 3.5mm linear inputs		
Tally	Support		
POE+	Support		
Daisy Chain	Support		
General			
Input Voltage	DC12V , POE+(IEEE802.3at)		
Operating Temperature	-10℃~50℃		
Operating Humidity	≤80%		
Color	Black/White		
Dimension (LxWxH)	12x: 220mmx190mmx173mm	20x: 220mmx190mmx173mm	30x: 220mmx190mmx193.5mm
Net Weight	12x: 1.5kg(3.3LBS)	20x: 1.5kg(3.3LBS)	30x: 1.9kg(4.2LBS)



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