



# VISION+ 4KN

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



NDI® | HX | 12x/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 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/30x optical zoom

It shoots with a 4K 12x optical zoom lens with a 80.5 degree FOV/ or 4K30x optical zoom lens with a 60 degree FOV, and a proprietary focusing algorithm enable fast and precise focus performance when zooming or moving, to capture every detail of the scene.

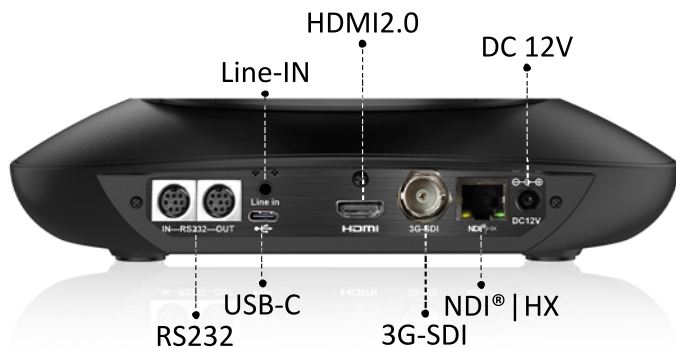
## ◆ NDI®|HX /3G-SDI/HDMI2.0/USB2.0 Available

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

# Specification

Camera	Vision+ 4KN 12x	Vision+ 4KN 30x
Part Number	TLC-300-IP-12-4K(NDI)-AB	TLC-700-1P-30-4K(NDI)-AB
Sensor	1/2.8 inch, 8.4MP UHD CMOS Sensor	1/1.8 inch, 12MP UHD CMOS Sensor
Zoom	12X optical zoom	30X optical zoom
Lens	f= 3.4mm ~ 40.3 mm, F1.8 ~ F3.6	f= 6.91~214.64mm,F1.35 ~ F4.6
Horizontal View Angle	80.5°(Wide)~ 7.6°(Tele)	63°(Wide) ~ 2.1°(Tele)
Vertical Viewing Angle	50.0°~ 4.4°	34.14°~ 1.12°
Diagonal Viewing Angle	88.9°~8.7°	67.08°~ 2.27°
Minimum Working Distance	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	
<b>Image Parameters</b>		
Noise Reduction	2D&3D	
Minimum lux	12x:0.5Lux(50 IRE Max AGC1/30,F1.8)	30x:0.5Lux(50 IRE Max AGC1/30,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	<b>12x:</b> 0.1°~120°/s	<b>30x:</b> 0.1°~80°/s
Tilt Rotation Speed	<b>12x:</b> 0.1°~80°/s	<b>30x:</b> 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)	<b>12x:</b> 220mmx190mmx173mm	<b>30x:</b> 220mmx190mmx193.5mm
Net Weight	<b>12x:</b> 1.5kg(3.3LBS)	<b>30x:</b> 1.9kg(4.2LBS)



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