



# VISION+ 4KN

4K60 NDI®HX3 Auto Tracking Live Streaming PTZ Video Camera

## Deliver High-End Features for Live Broadcasting

Telycam's new Vision+ 4KN series of PTZ cameras features built-in auto-tracking, integration with the latest NDI® SDK, and the most advanced American image processing solution to output exceptionally sharp 4K60 images.

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

The Vision+ 4KN's advanced PTZ mechanical design enables smooth and accurate pan, tilt, and zoom movements. Its flexible NDI®HX3, HDMI2.0, SDI and USB2.0 connectivity simultaneously output 4K UHD and 1080p60 Full HD resolutions, ideal for professional live streaming applications. Line in audio input can be combined and output simultaneously with video over NDI®HX3, HDMI2.0 and SDI.

**NDI®HX3 | 12X/20X/30X | 4K60  
AUTO-TRACKING**



## 4K UHD Resolution

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

## Built-in Auto Tracking function

With its built-in auto-tracking function, users can track targets, switch targets, set target areas, or adjust target size effortlessly without any third party software or device.

## FreeD

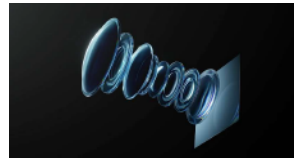
The Vision+ 4KN integrates FreeD technology for versatile shooting angles, ideal for both real-world and virtual applications.

## 12X/20X/30X Optical Zoom

The Vision+ 4KN offers 12X, 20X, and 30x optical zoom options with FOVs of 80.5°, 61°, and 63° respectively. Its advanced focusing algorithm ensures rapid and accurate focus even during zoom or movement.

## NDI®HX3 /3G-SDI/HDMI2.0/USB2.0 Available

The device supports NDI®HX3 and HDMI2.0 outputs at 4Kp60/59.94 simultaneously, 3G-SDI(Level A and B) outputs 1080p60/59.94, and USB-C output up to 4K30.



## Specifications

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, 9MP 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~112.5 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	90°~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®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
	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	<b>12X:</b> 0.5 lux (50 IRE Max AGC, 1/30, F1.8) <b>20X:</b> 0.5 lux (50 IRE Max AGC, 1/30, F1.58) <b>30X:</b> 0.5 lux (50 IRE Max AGC, 1/30, F1.35)
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, SSSD, FreeD, NTP, RTP Multicast, WebRTC, MPEG-TS

## Pan/Tilt Movement

Preset	Remote controller: 10; Serial port: 256; Accuracy: 0.1°
Pan Rotation Angle	-176°~+176°
Tilt Rotation Angle	-30° ~+90°
Pan Rotation Speed	<b>12X:</b> 0.1°~120°/s <b>20X:</b> 0.1°~80°/s <b>30X:</b> 0.1°~80°/s
Tilt Rotation Speed	<b>12X:</b> 0.1°~80°/s <b>20X:</b> 0.1°~60°/s <b>30X:</b> 0.1°~60°/s

## I/O Interface

Control Port	RS232(RS485), NDI®HX3
Video Port	NDI®HX3, HDMI 2.0, 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)	<b>12X:</b> 220mmx190mmx173mm <b>20X:</b> 220mmx190mmx193.5mm <b>30X:</b> 220mmx190mmx193.5mm
Net Weight	<b>12X:</b> 1.5kg(3.3LBS) <b>20X:</b> 1.9kg(4.2LBS) <b>30X:</b> 1.9kg(4.2LBS)
Color	Black/White

## Audio Input

3.5mm stereo line in

Power Supply  
POE+, DC12V

## Remote control port

RS232, RS485



## Video Output

3G-SDI, HDMI, USB Type-C, NDI®HX3