



# VISION+ N3

NDI®HX3 Auto Tracking Live Streaming PTZ Camera

## Lower Latency, Better Image

Vision+ N3 is the premium NDI®HX3 1080p60 PTZ camera series from Telycam, featuring the latest NDI® SDK for IP connectivity and the most advanced American image processing solution to deliver crystal clear high definition images.

Its advanced PTZ mechanical design enables smooth and accurate pan, tilt, and zoom movements. Its versatile NDI®HX3, HDMI, SDI, and USB2.0 connectivity output 1080p60 Full HD resolution, ideal for professional live streaming applications. Line in audio input can be combined and output simultaneously with video over NDI®HX3, HDMI2.0 and 3G-SDI. With 20X and 30X optical zoom available, the Vision+ N3 can fit seamlessly into any production scenario.

**NDI®HX3 | 20X/30X | 1080P60  
AUTO-TRACKING**



## 1080p60 FHD Resolution

Equipped with premium image processing solution and Sony HD CMOS sensor, Vision+ N3 delivers FHD and crystal-clear images even in low-light working 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.



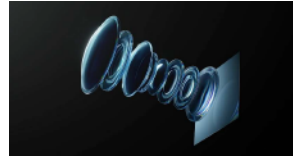
## FreeD

The Vision+ N3 integrates FreeD technology for versatile shooting angles, ideal for both real-world and virtual applications.



## 20X/30x Optical Zoom

It features a 20X/30X optical zoom lens with a 60-degree FOV and a proprietary focusing algorithm for precise focus even during zoom or movement, capturing every detail.



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

In addition to NDI®HX3, it simultaneously outputs images via 3G-SDI, HDMI, and USB2.0. 3G-SDI and HDMI are for transitional video production, while the USB output can function as a high-end webcam.



## Specifications

Camera	Vision+ N3 20X	Vision+ N3 30X
Part Number	TLC-300-IP-20(NDI)-AB	TLC-700-IP-30(NDI)-AB
Sensor	1/2.8 inch, 2.4MP UHD CMOS sensor	1/1.8 inch, 9MP UHD CMOS sensor
Zoom	20X optical zoom	30X optical zoom
Lens	f=4.9~98mm, F1.5~F3	f=6.91~214.64mm, F1.35~F4.6
Horizontal View Angle	60°(Wide)~3.2°(Tele)	63°(Wide)~2°(Tele)
Vertical Viewing Angle	32.2°~1.8°	34.14°~1.12°
Diagonal Viewing Angle	60°~3.64°	67.08°~2.27°
Minimum Working Distance	1.0m	1.5m
S/N Ratio	≥50dB	

Video Format

HDMI:  
1920\*1080P60/50/30/25/59.94/29.97/24/23.98;  
1920\*1080I60/50/59.94;  
1280\*720P60/50/30/25/59.94/29.97

NDI®HX3:  
Main Stream: 1920\*1080@15~60;  
1280\*720@15~60; 1024\*576@15~60;  
Sub Stream: 640\*360@15~30

3G-SDI:  
1920\*1080P60/50/30/25/59.94/29.97/24/23.98;  
1920\*1080I60/50/59.94;  
1280\*720P60/50/30/25/59.94/29.97

USB Type-C:  
NV12: 1920\*1080p5; 1280\*720p15; 1024\*576P25; 800\*448P30;  
YUYV: 1920\*1080p5; 1280\*720p10; 1024\*576P15; 800\*448P30;  
MJPG: 1920\*1080P30; 1280\*720P30; 1024\*576P30; 800\*448P30;  
H264/HEVC: 1920\*1080P30; 1280\*720P30;  
1024\*576P30; 800\*448P30

## Image Parameters

Noise Reduction	2D&3D
Minimum lux	<b>20X:</b> 0.5 lux(50 IRE Max AGC, 1/30, F1.5) <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	-170°~+170°
Tilt Rotation Angle	-30°~+90°
Pan Rotation Speed	<b>20X:</b> 0.1°~120°/s <b>30X:</b> 0.1°~80°/s
Tilt Rotation Speed	<b>20X:</b> 0.1°~80°/s <b>30X:</b> 0.1°~60°/s

## I/O Interface

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

USB Type-C, HDMI, 3G-SDI, NDI®HX3