



NDI® Live streaming PTZ Camera

Vision+ 4KN
Vision+ N3
Vision+ FN
Drive+ 4KN
Drive+ N
V-JOY+



| Every Angle. Every Detail 



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.

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)	60°(Wide) ~ 2°(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*1080P60/59.94/50/30/29.97/25/24/2398; 1920*1080160/59.94/50; 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*1080P60/5994/50/30/29.97/25/24/2398; 1920*1080160/59.94/50; 1280*720P60/59.94/50/30/29.97/25	
	USB Type-C: NV12: 1920*1080P5;1280*720P15;1024*576P25;800*448P30 YUV: 1920*1080P5;1280*720P15;1024*576P25;800*448P30 MJPEG: 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(50IRE Max AGC1/30,F1.8)	30x:0.5Lux(50IRE 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, RTMP, RTSP, ONVIF, VISCA over IP, TCP, UDP VISCA, PELCO P/D HTML5, Webtrc, 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	30x: 0.1°~80°/s
Tilt Rotation Speed	12x: 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	30x: 220mmx190mmx193.5mm
Net Weight	12x: 1.5kg(3.3LBS)	30x: 1.9kg(4.2LBS)



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VISION+ N3

NDI® | HX3 Auto Tracking Live Streaming PTZ Camera



NDI® | HX3 | 20x/30x | 1080p60 | Auto-tracking

Lower Latency, Better Image

Vision+ N3 is the premium NDI® | HX3 1080p60 PTZ camera series from Telycam, built-in with the latest NDI® SDK, and equipped with American most advanced image processing solution to deliver high definition and crystal clear image.

It has smooth PTZ mechanical design, to make accurate and stable pan, tilt, and zoom movement. NDI® | HX3; HDMI, SDI, and USB2.0 output Full HD resolution, ideal for professional live streaming applications.

With 20x and 30x optical zoom available, the Vision+ N3 can fit seamlessly into any production scenario.

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

Application



Key features

◆ 1080p60 FHD Resolution

Equipped with premium image processing solution and Sony HD CMOS sensor, to deliver high definition and crystal-clear images 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.

◆ 20x/30x optical zoom

It shoots with a 20x/30x 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® | HX3 3G-SDI/HDMI/USB2.0 Available

In addition to NDI® | HX3, 3G-SDI, HDMI and USB2.0 output image simultaneously as well. 3G-SDI and HDMI are for conventional video production workflow, and USB output can be used as a high-end webcam.

Specification

Camera	Vision+ N3 20x	Vision+ N3 30x
Part Number	TLC-300-1P-20-4K(NDI)-AB	TLC-700-1P-30-4K(NDI)-AB
Sensor	1/2.8 inch, 2.4MP UHD CMOS Sensor	1/1.8 inch, 12MP 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)	60°(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	HDMI2.0: 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080160/50/59.94; 1280*720P60/50/30/25/59.94/29.97	
	NDIP 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*1080160/50/59.94; 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; MIPG: 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	12x:0.5Lux(50IRE Max AGC1/30,F1.8)	30x:0.5Lux(50IRE 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, HT TP, RTSP, RTMP, ONVIF, VISCA over IP,TCP, UDP VISCA, PELCO P/D HTML5, Webtrc, 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	20x: 0.1°~120°/s	30x: 0.1°~80°/s
Tilt Rotation Speed	20x: 0.1°~80°/s	30x: 0.1°~60°/s
I/O Interface		
Control Port	RS232(RS485), NDI® HX3	
Video Port	NDI® HX3, HDML, 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)	20x: 220mmx190mmx173mm	30x: 220mmx190mmx193.5mm
Net Weight	20x: 1.5kg(3.3LBS)	30x: 1.9kg(4.2LBS)



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VISION+ FN

HIGH BANDWIDTH NDI® PTZ CAMERA



NDI®

| 10x/20x

| 1080p60

| POE+

Vision+ FN is special supplementary for Telycam's NDI camera series, which is integrated Telycam's classic PTZ camera with Kiloview's professional full NDI® solution, to provide 1080p60 high-quality stunning images with extremely low latency in the whole NDI video production workflow.

A single cable enables power, video, control, and Tally.

NDI®, HDMI, 3G-SDI, USB2.0 Output 1080p60 resolution simultaneously
Audio in input

Application



Key features

◆ 1080p60 Full HD Resolution

Vision+ FN is equipped with the most advanced image processing solution and 1/2.8-inch 2.4MP image sensor, to achieve smooth, sharp and crystal-clear FHD 1080p60 images, even in the low-light working environment.

◆ 10x/20x Optical Zoom

Shooting with 10x/20x optical zoom & 12X electronic digital zoom and a 60° horizontal angle of view.

◆ Full NDI® Integrated

High bandwidth NDI® transmits full HD video at a maximum of 125 Mbps, enabling high-quality, low-latency live video transmission.

With high bandwidth NDI®, Vision+ FN presents very less image compression and low latency for live video production, almost the same performance as HDMI output.

◆ 3G-SDI/HDMI/USB2.0 Available.

In addition to NDI®, 3G-SDI, HDMI and USB2.0 output image simultaneously as well.

3G-SDI and HDMI are for conventional video production workflow, and USB output can be used as a high-end webcam.

◆ Program and Preview Tally

The indicator light can work as Tally when receiving tally notification from the NDI® devices, to show the live is on or off.

Specification

Camera	Vision+ FN 10x	Vision+ FN 20x
Part Number	TLC-300-IP-10-FNDI	TLC-300-IP-20-FNDI
Sensor	1/2.8 inch, 2.4MP CMOS Sensor	
Zoom	10X optical zoom	20X optical zoom
Lens	f= 4.9~49mm, F1.5~F3.0	f= 4.9 ~98mm, F1.5~F3.0
Horizontal View Angle	60°(Wide) ~ 3.2°(Tele)	60°(Wide) ~ 3.2°(Tele)
Vertical viewing angle	32.2°~ 1.8°	
Diagonal viewing angle	61°~3.64°	
Minimum Working Distance	1.0m	
S/N Ratio	≥50dB	
Video Format	HDMI: 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	
	Full NDI®: 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	
	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: YUY2: 1920*1080P6; 1280*960P10; 1280*720P13; 1024*768P15; 800*600P25; 640*480P30; 640*480P30 MJPEG: 1920*1080P30; 1280*960P30; 1280*720P30; 1024*768P30; 800*600P30; 640*480P30; 640*480P30	
Image Parameters		
Noise Reduction	2D&3D	
Minimum lux	0.7Lux (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	
WDR	Support	
Backlight Compensation	Support	

ip Streaming	
Video Encoding	H.264/H.265
Video Bitrate	6Mbps~135Mbps
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~61440Kbps
Network Port Speed	1000M
Protocol	NDI®, TCP, HTTP, VISCA over IP(TCP&UDP), HTML5, VISCA, PELCO P/D
I/O Interface	
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°~80°/s
Tilt Rotation Speed	0.1°~60°/s
Pan/Tilt Movement	
Control Port	RS232, RS485, RJ45(VISCA over IP), USB2.0(UVC)
Video Port	NDI® HX, HDML, 3G-SDI, USB2.0(Type-C)
Audio Port	Dual 3.5mm linear inputs
Tally	Support
POE+	Support
Daisy Chain	Support
General	
Input Voltage	DC: 12V 2A(Pmax=11W), POE+: IEEE8023at(Pmax=11W)
Operating Temperature	-10℃~50℃
Operating Humidity	≤80%
Color	Black/White
Dimension (LxWxH)	220mmx190mmx173mm
Net Weight	1.45kg(3.3LBS)



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DRIVE+ 4KN 35X

NDI® |HX LIVE STREAMING PTZ VIDEO CAMERA



NDI® |HX

35x

4K30

POE+

Broadcast Level, Enterprises Cost Live Streaming

Drive+ 4KN 35X is a 4K 35X PTZ camera, integrated with the latest NDI® |HX SDK, equipped with the most advanced image processing solution, Sony 1/1.7-inch 12MP sensor, truly 4K lens, to output 4K sharp image.

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

NDI® |HX, HDMI, SDI, and USB3.0 simultaneously output 4K and HD resolution, ideal for professional live streaming applications.

Application



Key features

◆ 4K UHD resolution

Drive+ 4KN 35X features a state-of-the-art image processor, 1/1.7-inch, 12mp sensor, and outputs an ultra-high-definition video resolution of 3840*2160p30 to display clear, sharp, and lifelike images to users, even in low-light working environments.

◆ 35x optical zoom

It shoots with a 4K 35x optical zoom lens with a 60-degree field of view, 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/HDMI/USB3.0 Available.

In addition to NDI®|HX, 3G-SDI, HDMI and USB3.0 output image simultaneously as well. 3G-SDI and HDMI are for conventional video production workflow, and USB output can be used as a high-end webcam.

◆ Program and Preview Tally

The indicator light can work as Tally when receiving tally notification from the NDI® devices, to show the live is on or off.

Specification

Camera	Drive+ 4K 35X
Part NO.	TLC-700-1P-35-4K(NDI)
Sensor	1/1.7 inch, 12MP UHD CMOS Sensor
Zoom	35X optical zoom
Lens	f= 5.8mm ~ 203 mm, F1.5 ~ F4.8
Horizontal View Angle	60°(Wide)~2.02°(Tele)
Vertical viewing angle	45.32°~ 1.51°
Diagonal viewing angle	70.0°~ 2.51°
Minimum Working Distance	1.5m
S/N Ratio	≥50dB
Video Format	HDMI: 3840*2160P30/25;1920*1080P60/50/30/25/59.94/29.97/24; 1920*1080P60/50/59.94;1280*720P60/50/30/25/59.94/29.97
	NDI® HX: 3840*2160@15~30;1920*1080@15~60;1280*720@15~60;1024*576@15~60; 640*360@15~30(low bandwidth mode)
	3G-SDI: 1920*1080P60/50/30/25/59.94/29.97/24;1920*1080P60/50/59.94; 1280*720P60/50/30/25/59.94/29.97
	USB 3.0: 1920*1080P60/50/30/25(USB3.0);1280*720P60/50/30(USB3.0) 1280*720P25(USB3.0&USB2.0);1024*576P30(USB3.0&USB2.0); 960*540P30(USB2.0)640*360P30(USB2.0);512*288P30(USB2.0)
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
WDR/BLC	Support
Ip Streaming	
Video Encoding	H.264/H.265
Bitrate Control	Variable bitrate(VBR), Constant bitrate(CBR)
Bitrate Range	1024Kbps~51200Kbps
Network Port Speed	1000M
Protocol	NDI® HX,SRT, RTMP, 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, USB3.0(UVC1.5), USB2.0(UVC1.1)
Video Port	NDI® HX, HDMI, 3G-SDI, USB Type-C
Audio Port	Dual 3.5mm line in
Tally	Support
POE+	Support
Daisy Chain	Support
General	
Input Voltage	DC12V , POE+(IEEE802.3at)
Power Consumption	PoE+: IEEE802.3at(Pmax=10W); DC: 12V 2A(Pmax=10W)
Operating Temperature	-10℃~50℃
Operating Humidity	≤80%
Color	Black/White
Dimension [LxWxH]	220mmx190mmx205.8mm
Net Weight	1.75kg



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DRIVE+ N

NDI® |HX LIVE STREAMING PTZ VIDEO CAMERA



NDI® |HX | 12x/20x | 1080p60 | POE+

Broadcast Level, Enterprises Cost Live Streaming

Drive+ N series is integrated with latest NDI® |HX technology, equipped with an industry-level image processing solution, an advanced 2.4MP sensor, and 12x or 20x optical zoom lens, to deliver sharp and high-definition video.

With NDI® |HX, HDMI, 3G-SDI, and USB3.0 video output connectivity, it can be used in various applications to produce and stream video, for studio room, classroom, meeting room, church, etc.

With 12x and 20x optical zoom available, the Drive+ N can fit seamlessly into any production scenario.

Application



Key features

◆ FHD resolution

Drive 12/20 features an industry-level image processor, 1/2.8-inch 2.4-megapixel sensor, and outputs full high-definition video resolution of 1920*1080p60 to display clear, sharp, and lifelike images to users, even in low-light working environments.

◆ 12x/20x optical zoom

It shoots with a 12x optical zoom lens with a wide angle 72.5-degree or 20x optical zoom lens with 60-degree field of view, 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/HDMI/USB3.0 Available.

In addition to NDI®|HX, 3G-SDI, HDMI and USB3.0 output image simultaneously as well. 3G-SDI and HDMI are for conventional video production workflow, and USB output can be used as a high-end webcam.

◆ Program and Preview Tally

The indicator light can work as Tally when receiving tally notification from the NDI® devices, to show the live is on or off.

Specification

Camera	Drive+ N 12x	Drive+ N 20x
Part Number	TLC-300-IP-12(NDI)	TLC-300-IP-20(NDI)
Sensor	1/2.8 inch, 2.4MP UHD CMOS Sensor	
Zoom	12X optical zoom	20X optical zoom
Lens	f=3.92 ~ 47.32mm, F1.8 ~ F2.8	f=4.9 ~ 98mm, F1.5 ~ F3.0
Horizontal View Angle	72.5°(Wide) ~ 6.3°(Tele)	60°(Wide) ~ 3.2°(Tele)
Vertical viewing angle	42.72°~3.66°	34.14°~1.12°
Diagonal viewing angle	78.58°~7.42°	67.08°~2.27°
Minimum Working Distance	1.0m	1.0m
S/N Ratio	≥50dB	
Video Format	HDMI: 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080160/50/59.94; 1280*720P60/50/30/25/59.94/29.97	
	NDI® HX: 1920*1080@3~60; 1280*720@3~60; 1024*576@3~60, 640*360@3~60 (low bandwidth mode)	
	3G-SDI: 1920*1080P60/50/30/25/59.94/29.97/24/23.98; 1920*1080160/50/59.94; 1280*720P60/50/30/25/59.94/29.97	
	USB Type-C: 1920*1080P60/50/30/25(USB3.0); 1280*720P60/50/30(USB3.0); 1280*720P25(USB3.0&USB2.0); 1024*576P30(USB3.0&USB2.0); 960*540P30(USB2.0); 640*360P30(USB2.0); 512*288P30(USB2.0)	
Image Parameters		
Noise Reduction	2D&3D	
Minimum lux	0.7Lux (50 IRE Max AGC, 1/30, F1.8)	
White Balance	ATW/Manual/Auto/Indoor/Outdoor/One Push/Sodium/Fluorescent	
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~ 16384Kbps
Network Port Speed	1000M
Protocol	NDI® HX, SRT, RTMP, RTSP, 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, USB3.0(UVC1.5), USB2.0(UVC1.1)
Video Port	NDI® HX, HDMI, 3G-SDI, USB 3.0
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)	220mmx190mmx173mm
Net Weight	1.35kg



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V-JOY+/V-JOY

NDI CONTROL KEYBOARD

Key features

● **Broad Compatibility**

Supports multiple protocols NDI®, VISCA over IP, Serial VISCA, ONVIF, PELCO P/D. Users can control multiple cameras with different protocols with one keyboard, or multiple keyboards controlling one camera through a network interface.

It has 7 camera control shortcut keys, to enable up to 255 cameras to be controlled via a keyboard.

● **Intuitive and Clear Layout**

A high-definition screen to show detailed camera and control status.

PTZF four-dimensional joystick to make smooth control of the camera's all-around rotation, zooming and focus.

Independent layout of numeric and functional areas for clear setup and control.

● **Flexible Control**

Basic pan/tilt/zoom control, PTZ control speed as well as preset can be easily accomplished. Auto tracking switch and set.

128 preset positions can be set, recalled, and cleared via the numerical button area.

Focus, Iris, Exposure, White balance, WDR, and Backlight compensation can be set and adjusted.

Application



Specification

Camera	V-Joy+	V-Joy
Part NO.	TLC-50TC(NDI)	TLC-50TC
Control Parts	NDI® HX, RS232, RS422, RS485	RI45, RS232, RS422, RS485
RI45	Ethernet port, POE (IEEE802.3af)	
RS232	DB9 Male head	
RS422	3.81 Spacing terminal, T+, T-, R+, R-	
RS485	3.81 Spacing terminal, T+, T-	
Control Protocols	NDI®, VISCA Serial, PELCO-P, PELCO-D, VISCA over IP, VISCA TCP, VISCA UDP, ONVIF	
Upgrade Port	Type-C	
LCD Screen	3.12-inch OLED screen, blue light, 256x64 pixel	
Working Power	12V, 1A	
Working Temperature	-10℃~50℃	
Working Humidity	20%~80%	
Storage Temperature	-20℃~60℃	
Storage Humidity	0~90%	
Dimension	320.5mmx156.5mmx118mm	
Net Weight	1.05kg	



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USB Video Conferencing Camera

Every Angle Every Detail



Meet+ 100
Meet+ 200
Meet+ 10
Meet+ 12/20

MEET+ 100

4K AI Auto Focus Camera



4K30 | AI AUTO FOCUS | 80°FOV | Privacy Protection

For desktop video conferencing and live streaming

Meet+ 100 is a high-quality 4K auto focus webcam. Only one USB (Type-C) cable is used to enable power, control and video. Thanks to being equipped with advanced image processing solution and sensor, it presents realistic color, sharp and smooth image.

Meet+ 100 is developed with Telycam's own-developing focusing algorithm, to make the focus unrivalled fast and accurate. Built-in top-rated quality microphone, it can pick up the voice crystal clearly.

Meet+ 100 is the ideal for desktop video conferencing and live streaming.

Application



Key features

◆ 4K sharp image and AI Auto Focus

Adopt the most advanced 4K image processing solution, Sony 1/2.8" 12MP UHD CMOS sensor, and high-quality 80° diagonal view angle optical glass lens to output 4K30 UHD and 1080p60 FHD image. Support AI Auto Focus technology to enable focus at very short distance fast and accurate.

◆ 3X Digital Zoom

Thanks to its true 4K lens, this zoom camera support max 3X digital zoom with crystal video quality. (2x at 1080P and 3x at 720P)

◆ Portrait Video Display

Multiple video resolutions are supported, both in landscape and portrait mode, can meet your flexible application.

◆ Flexible USB&C Connection

Plug and Play, easy to use, the webcam box package include both 1.5meter USB type A cable and Type C connector.

◆ Black Light Compensation

This webcam also support black light compensation, to output always bright and clear image even under low light background

◆ Security and Privacy Protection

Silicon lens cover help to prevent online hackers from spying on you, and keep the lens clean when the camera not in use.



Specification

Camera	Meet+ 100
Part Number	TLC-100-U2-4K
Sensor	1/2.8"12MP UHD CMOS sensor
Lens	Iris: F1.8; View Angle: 80°(Diagonal), 65°(Horizontal) Object Distance: 10cm~infinity
Zoom	1080P supports 2X digital zoom, 720P supports 3X digital zoom
EPTZ	Support
Output Interface	USB(Type-c)
Video Format USB(Type-c)	YUY2: 640*480@30/20; 640*360@30/20; 320*240@30/20 MJPEG: Landscape video: 3840*2160@30/20; 2560*1440@30/20; 1920*1080@60/30; 1280*720@60/30; 1024*576@60/30;640*480@60/30 Portrait video: 1080*1920@30/20; 720*1280@30/20; 576*1024@30/20; 360*640@30/20
Focus	AI Auto Focus
Image Parameters	
White Balance	Auto/Manual
Exposure	Auto/Manual
Flicker	50HZ/60HZ/OFF
2D、3D Noise Reduction	Support
WDR	Support
Backlight Compensation	Support
Mirror, Flip	Support
Microphone Pointing	Omnidirectional microphone
Sensitivity	-26+2dB RL=2.2KO Vs=2.0V
S/N Ratio	64dB

Image Parameters	
White Balance	Auto/Manual
Exposure	Auto/Manual
Flicker	50HZ/60HZ/OFF
2D/3D Noise Reduction	Support
WDR	Support
Backlight Compensation	Support
Mirror, Flip	Support
Microphone Pointing	Omnidirectional microphone
Sensitivity	-26+2dB RL=2.2KΩ Vs=2.0V
S/N Ratio	64dB
General	
Polar Distance	3~5m
Input Voltage	USB power supply
Working Environment	Temperature:-10℃~50℃; Humidity: 80%
Webcam Size	76mmxφ48mm
Package Size	114.5mmx87mmx85mm
Net Weight	0.13kg
Gross Weight	0.3kg
Available Color	Dark gray, Silver
Accessories	1.5m USB2.0(A-C) cable, Manual, Warranty card



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MEET+ 200

4K USB WEBCAM WITH MICROPHONE



● Impressed Image Quality

- Adopt the most advanced image DSP and 1/2.8" 8.42MP sensor, to output 3840x2160@30 UHD resolution.
- Used high quality 12MP and 120-degree optical full glass lens, output ultra-high definition and crisp image.
- 4x digital zoom
- Support Auto Framing: Auto Framing participants at meeting start or enter, leave, or change positions.
- Standard UVC 1.1 protocol, compatible with most VC application.

● Collect the Voice Correctly

- Built-in dual beam forming microphone, pick up voice at 5meters distance

● Connect Easily

- USB2.0 output
- A single USB cable for video output, camera control and power supply directly, totally minimize cable clutter.
- Flexible hinge design: fit for monitor, PC, tripod, wall mount and on desk mounting.
- Support image flip function, camera can be installed upside down.

Specification

Camera	Meet+ 200
Part Number	TLC-200-U2-4K
Sensor	1/2.8-inch, 8.42-MP SONY CMOS sensor
Video Format	YUY2/NV12: 1280*720@15; 1024*576@20; 640*480@30
	M/PG: 3840*2160@30;2560*1440@30; 1920*1080@30; 1280*720@30; 1024*576@30; 640*480@30
	H.264/H.265: 3840*2160@30; 2560*1440@30; 1920*1080@30; 1280*720@30; 1024*576@30; 640*480@30
Optical Zoom	12-megapixel fixed lens
Digital Zoom	4X
Field of Viewing	120°, distortion rate less than 4%
Iris	F=2.2
Sensor Resolution	8.42 megapixel
Control Port	USB2.0(UVC1.1/UAC1.0)
video Port	USB2.0
S/N Ratio	>50dB
Focal Length	f= 2.20mm
Minimum Lux.	0.7lux (50IRE Max AGC, 1/30, F1.8)
Image Parameters	
White Balance	Auto/Manual
Electronic Shutter	Auto
Mirror, Flip, Anti-flicker	50HZ/60HZ/OFF
WDR	Support
General	
Polar distance	3~5 meters
Sensitivity	-26±2dB RL=2.2KΩ Vs=2.0V
Input Voltage	4.4~5.25V@500mA(USB port)
Dimension (L x W x H)	199mmx92.5mmx65mm
Color	Silver/Black
Net Weight	0.32KG



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MEET+ 10



10x | 1080p60 | USB&HDMI | Power via USB-C

Full HD Video Conferencing Camera

Meet+ 10x is ideally used for video conferencing in small and medium-sized meeting rooms. It is equipped with Panasonic 1/2.8" sensor and high quality 10x optical lens, to output crisp images with realistic color, even in low light or high contrast of brightness and darkness environment.

USB and HDMI can output different resolutions respectively at the same time, both can be up to 1080p60.

Power via USB-C port.

It works with any of your favorite conferencing software, totally plug and play, and user-friendly.

Application



Key features

◆ 1080p60 FHD output

Equipped with advanced image processing solution and cutting-edge video camera algorithms, a Panasonic 1/2.8 inch sensor and high-quality lens, to output crystal clear image, max up to 1080p60 full high definition resolution.

◆ 10x optical zoom

Featured with a high-quality 10x optical zoom lens, which is able to capture the participants at a distance of 10 meters, allowing the participants to occupy 1/3 of the screen in the display very clear and lively.

◆ USB and HDMI output

With USB-C and HDMI video ports, which can output the same or different resolutions respectively at the same time.

◆ Power via USB-C

Meet+ 10x can power via a USB-C port directly, with no need for the power supply adaptor, which makes deployment even more simple, a single cable enables power, video, and control.

◆ Smooth and silent PTZ movement

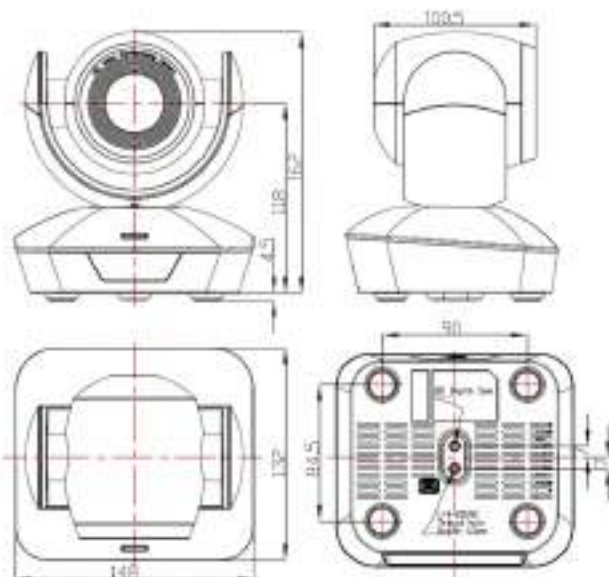
Thanks to the compact and sophisticated mechanism design, and accurate driven algorithms, TLC-1000-HU2-10 can move very smoothly without noise at variable pan/tilt/zoom speed.

Specification

Camera	
Part Number	TLC-1000-HU2-10
Sensor	1/2.8 inch, 2.4 MP CMOS Panasonic sensor
Zoom	10x optical zoom + 12x digital zoom
Lens	f= 4.7~47mm , F1.6-3.0
Horizontal View Angle	62.5°(wide)- 6.43°(tele)
Vertical viewing angle	40.1°~ 4.1°
Diagonal viewing angle	69.7° ~ 7.56°
Minimum Working Distance	Wide: 0.5m; Tele: 1m
S/N Ratio	≥50dB
Video Format	HDMI: 1920*1080P60/59.94/50/30/29.97/25/24 1920*1080P60/59.94/50 1280*720P60/59.94/50/30/29.97/25
	USB 2.0 Type-C: MIPG:1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2:640*480P30; 320*240P30
Image Parameters	
Noise Reduction	2D&3D
Minimum lux	0.7Lux (50 IRE Max AGC,1/30, F1.8)
White Balance	Auto / Manual / Indoor / Outdoor / C.T. / PUSH
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
WDR	Support
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

General

Input Voltage	5V 1000mA(via USB type C)/ DC: 12V 2A(via Power Adapter)
Power Consumption	DC: 12V 2A(Pmax=7W)
Operating Temperature	-10℃~50℃
Operating Humidity	≤80%
Color	Silver
Dimension (LxWxH)	148mmx132mmx162mm
Net Weight	0.9kg(2LBS)
Accessory	Power adapter, Power cable, 3m USB Type-C cable, manual, warranty card

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MEET+ 12&20



12x/20x | 1080p60 | USB&HDMI | Power via USB-C

Full HD Video Conferencing Camera

Meet+ 12/20 is ideally used for video conferencing in small and medium-sized meeting rooms. It is equipped with Panasonic 1/2.8" sensor and high quality 12x/20x optical lens, to output crisp images with realistic color, even in low light or high contrast of brightness and darkness environment.

USB and HDMI can output different resolutions respectively at the same time, both can be up to 1080p60.

Power via USB-C port.

It works with any of your favorite conferencing software, totally plug and play, and user-friendly.

Application



Key features

◆ 1080p60 FHD output

Equipped with advanced image processing solution and cutting-edge video camera algorithms, a Panasonic 1/2.8 inch sensor and high-quality lens, to output crystal clear image, max up to 1080p60 full high definition resolution.

◆ 12x/20x optical zoom

Featured with a high-quality 12x/20x optical zoom lens, which is able to capture the participants at a distance of 10 meters, allowing the participants to occupy 1/3 of the screen in the display very clear and lively.

◆ USB and HDMI output

With USB-C and HDMI video ports, which can output the same or different resolutions respectively at the same time.

◆ Power via USB-C

Meet+ 12/20 can power via a USB-C port directly, with no need for the power supply adaptor, which makes deployment even more simple, a single cable enables power, video, and control.

◆ Smooth and silent PTZ movement

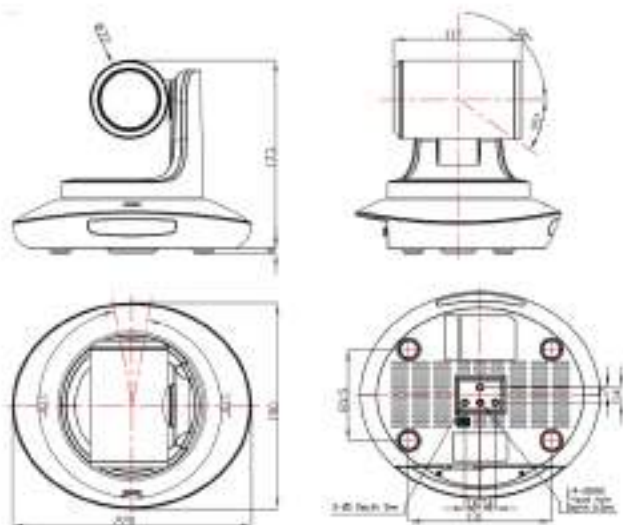
Thanks to the compact and sophisticated mechanism design, and accurate driven algorithms, Meet+ 12/20 can move very smoothly without noise at variable pan/tilt/zoom speed.

Specification

Camera	Meet+ 12	Meet+ 20
Part Number	TLC-300-HU2-12	TLC-300-HU2-20
Sensor	1/2.8 inch, 2.4 MP CMOS Panasonic sensor	
Zoom	12x optical zoom + 12x digital zoom	20x optical zoom + 12x digital zoom
Lens	f= 3.92~47.32mm , F1.8~ 2.8	f= 4.9~98mm,F1.5~F3.0
Horizontal View Angle	72.5°(wide)~6.3°(Tele)	60°(Wide)~ 3.2°(Tele)
Vertical viewing angle	42.72°~3.66°	32.2°~ 1.8°
Diagonal viewing angle	78.58°~7.42°	61°~3.64°
Minimum Working Distance	Wide: 1m; Tele: 1.5m	Wide: 1m; Tele: 1.5m
S/N Ratio	≥50dB	
Video Format	HDMI: 1920*1080P60/59.94/50/30/29.97/25/24 1920*1080P60/59.94/50 1280*720P60/59.94/50/30/29.97/25 USB 2.0 Type-C: MIPG:1920*1080P60; 1280*960P60; 1280*720P60; 1024*768P60; 800*600P60; 640*480P30; 320*240P60 YUY2:640*480P30; 320*240P30	
Image Parameters		
Noise Reduction	2D&3D	
Minimum lux	0.7Lux (50 IRE Max AGC,1/30, F1.8)	
White Balance	Auto / Manual / Indoor / Outdoor / C.T. / PUSH	
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	
WDR	Support	
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	

General

Input Voltage	5V 1000mA(via USB type C)/ DC: 12V 2A(via Power Adapter)	
Power Consumption	DC: 12V 2A(Pmax=8W)	DC: 12V 2A(Pmax=8W)
Operating Temperature	-10℃~50℃	
Operating Humidity	≤80%	
Color	Silver	
Dimension (LxWxH)	220mmx190mmx173mm	
Net Weight	1.25kg(2.8LBS)	
Accessory	Power adapter, Power cable, 3m USB Type-C cable, manual, warranty card	



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