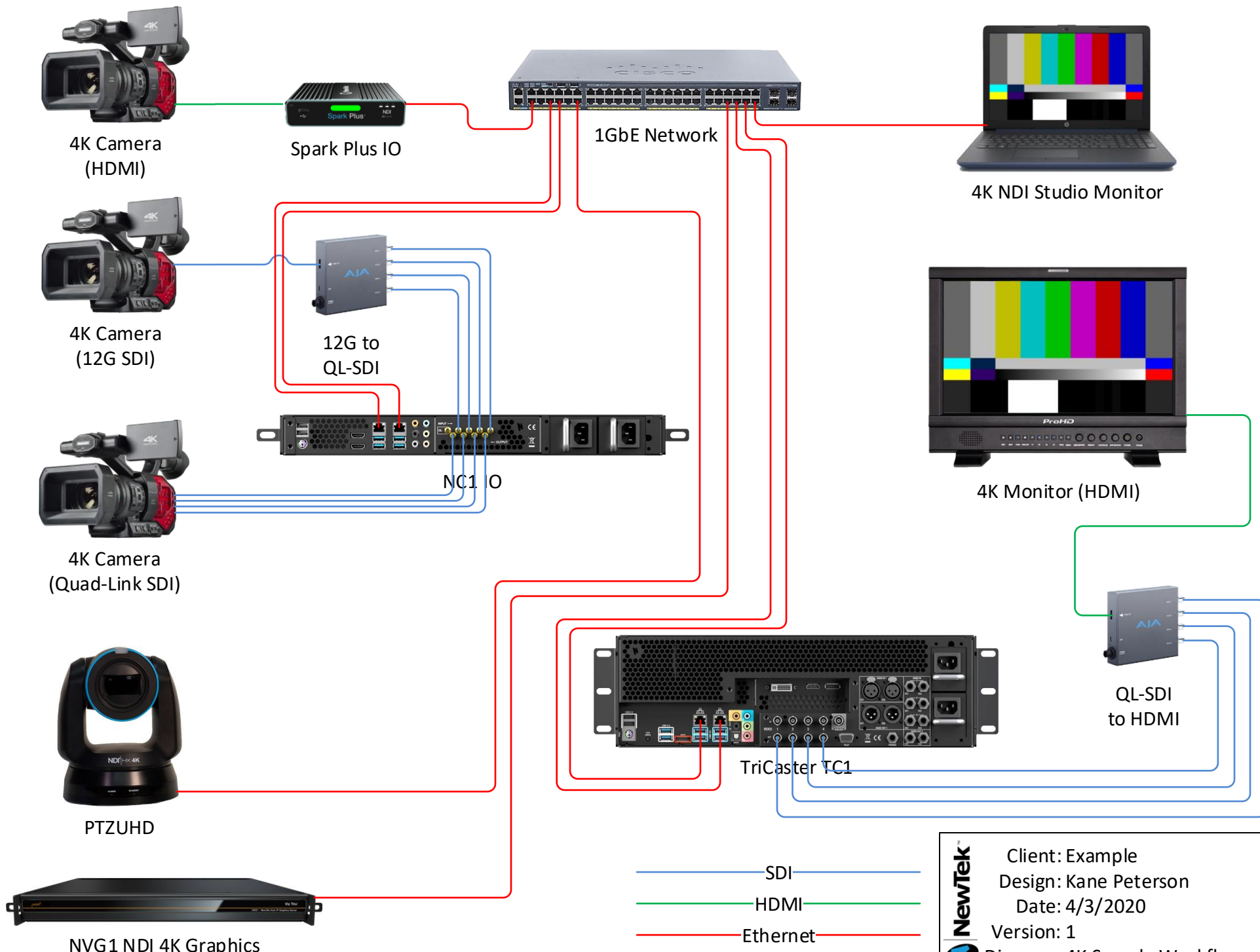




## Ordering Guide: PTZUHD

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All information included in this Ordering Guide is subject to change without notice.



Client: Example  
Design: Kane Peterson  
Date: 4/3/2020  
Version: 1  
Diagram: 4K Sample Workflow

## IP, NDI® Based PTZ Camera Supporting UHD

Easily acquire and transmit high-quality video images at up to UHD resolution over IP from anywhere on the network with NewTek PTZUHD. Simply connect the camera to the network and it becomes instantly available and software manageable as an input source for any NDI® based system or production environment.

Continuing in the tradition of creating innovative digital media production components, NewTek PTZUHD is the first IP-based camera that delivers full UHD video at up to 60 frames per second directly to NDI-compatible systems. As a software driven component with application integration, PTZUHD enhances live production requirements including lecture capture, videoconferencing, and more for today and tomorrow.



- **Pristine UHD Video**  
Deliver superior quality ultra high definition video with native support for resolutions up to 2160p 60 using a 30X optical zoom lens and CMOS sensor
- **IP Based Production**  
Acquire and deliver video to the network with NDI® output and even use Multicast Mode to permit multiple destinations to receive video from the PTZ Camera without individual point-to-point connections to conserve network bandwidth.
- **One Cable Connectivity**  
Supply power, connect to the network, acquire and transmit video, and operate the camera with a single Ethernet cable
- **Fluid Movement**  
High-speed, quiet, and precise positioning with smooth pan-tilt-zoom operations
- **Remote Control**  
Manage using an intuitive web-based user interface that includes controls for pan-tilt-zoom functions, presets, and camera settings. Operate with select NewTek live production systems and NDI Studio Monitor
- **Software Driven**  
Integrates with select live production systems from NewTek, as well as production and meeting software applications to easily satisfy a variety of production requirements

Learn More at: <https://www.newtek.com/camera/>

## PTZUHD Overview

The world's first camera designed for UHD video workflows using NDI®, NewTek PTZUHD is an affordable, IP- based pan-tilt-zoom camera equipped with NDI® technology, power over Ethernet, 30x optical zoom lens, Sony CMOS sensor, and fluid PTZ movement.

NewTek PTZUHD presents unprecedented freedom for installation, integration, and production as a software driven device. The first camera with built-in NDI®|HX at UHD resolution, it connects over IP to any of the hundreds of systems, devices, and applications that support innovative Network Device Interface technology (NDI®). PTZUHD connects with a single Ethernet cable for video, audio, control, tally, and power. Easily acquire and transmit high-quality UHD video images over IP from anywhere on the network without connection, cabling, or location limitations.

NewTek PTZUHD is the optimal way to acquire live video for input into digital media production workflows. The first pan-tilt-zoom (PTZ) camera that transmits full UHD video directly to NDI® compatible receiving devices across the network, it is uniquely suited for IP-based live production and streaming, and other single- and multi-camera scenarios including sports and event coverage, corporate communications, virtual trade shows, community announcements, vloggers, teaching, learning, religious services, security, and more.

## PTZUHD Product Highlights

Imagine the possibilities of a camera that can serve as a live UHD video input for NDI® compatible hardware or software systems—from anywhere on your network. Introducing PTZUHD, the fastest, easiest, and best way to capture video for your digital media productions.

- Native support for HD and UHD video formats up to 2160 p60
- Progressive scan Sony CMOS sensor and 30x optical zoom lens
- High-speed, quiet, and fluid operations and control
- Low latency NDI® HX efficiently uses bandwidth
- Power over Ethernet via POE++ (802.3bt) or through the use of a power adapter
- Integrated and automatic tally support via NDI®
- Remote control and monitoring via Web-based user interface
- Mounting bracket for ceiling installation included
- Integrates with software-based video tools like Livestream Studio, OBS, Wirecast, VidBlaster, vMix, XSplit, and all other current NDI®-compatible products
- Designate the PTZUHD as a high quality video input source with popular meeting applications including Zoom, Google Hangouts, GoToMeeting, Skype, Skype for Business, WebEx, and more
- Usable even by a single operator to produce vlogs and vcasts for delivery to platforms such as YouTube when quality matters
- NDI PTZ control limits the number of operators needed for production
- Complete integration with select TriCaster live production systems

## PTZUHD Key Features

NDI® Output	Acquire and deliver video to the network in full UHD and HD with NDI® output and native support for resolutions up to 2160p at 60 frames per second.
Sony CMOS Sensor	Professional progressive scan sensor that delivers clear and vivid live images.
30x Optical Zoom Lens	Provides excellent white balance, and exposure modes that deliver a clear image even in low light or extreme contrast of brightness and darkness with a 63 degree horizontal field of view.
Multicast Mode	Optionally permit multiple destinations to receive video from the NDI® PTZ Camera without individual point-to-point connections to conserve network bandwidth.
Power over Ethernet	Streamline installation and reduce cabling complexity, optionally eliminating the need for a separate power supply connection with support for Power over Ethernet via POE++ (802.3bt)
Pan-Tilt-Zoom	Perform precise pan, tilt, and zoom camera movements with remote PTZ camera control and up to 256 configurable preset positions. Features a horizontal viewing angle of -170 degrees to +170 degrees, and tilt angle up to 90 degrees, and down to -30 degrees.
Program and Preview Tally	Receive tally notification from compatible NDI® devices via physical LEDs when video output from the NDI® PTZ Camera is visible on Program and/or Preview.
Remote Control and Monitoring	Operate camera controls, monitor video, manage login credentials, and configure audio, video, and network settings from any compatible networked device using the Web-based user interface or NewTek NDI® Studio Monitor.
Remote Recording	Capture live NDI® PTZ Camera video remotely from any compatible production system, or computers using NewTek NDI® Studio Monitor
Video Settings	Manage NDI® PTZ Camera options to include exposure, focus, iris, shutter speed, white balance, wide dynamic range, and more with configurable video settings.
Audio	Present high-quality audio, with support for mic and line level audio input, and adjustable volume control.
Virtual PTZ	A special function available on select NewTek live production systems to expand shot selection by creating and accessing multiple shots from any individual video signal complete with live virtual zoom and real-time pan and scan effects.
NDI® Virtual Input	Designate your NDI® PTZ Camera as the video input source in popular desktop video applications like Zoom. Google Hangouts, GoToMeeting, Skype, Skype for Business, WebEx, and more
Network Identification	Easily identify NDI® PTZ cameras on the network with the ability to apply custom device and channel names.
Firmware Updates	Download and install firmware updates at no charge to ensure NDI® PTZ cameras are equipped with the latest features, capabilities, and performance enhancements.

## PTZUHD Technical Specifications

<b>Video / Audio Output</b>	NDI®
<b>Video Formats</b>	2160p: 59.94, 50, 29.97, 25 1080p: 59.94, 50, 29.97, 25 720p: 59.94, 50
<b>Lens</b>	Zoom: 30x Optical
<b>Sensor</b>	Sony 1/1.8" CMOS
<b>Shutter Speed</b>	1/1 to 1/10,000 sec
<b>Panning Angle</b>	-170° to +170°
<b>Tilting Angle</b>	30° to +90°
<b>Audio Input</b>	3.5mm audio input (line/mic)
<b>Audio Output</b>	NDI®
<b>Tally</b>	Tally support via NDI®
<b>User Interface</b>	Web NewTek NDI® Studio Monitor application for remote configuration, control, and monitoring
<b>Control</b>	NDI®
<b>Networking</b>	1 Gigabit Ethernet
<b>Power</b>	Power over Ethernet (IEEE 802.3bt) or fixed power supply
<b>Physical</b>	Dimensions: 6.9 x 7.2 x 7.2 in (175 x 183 x 183 mm) Weight: 4.4 lbs (2.0 kg)

*Subject to change without notice.*

## Ordering Information

	<b>PTZUHD Camera</b>
<b>NTPTZUHD</b>	NDI based PTZ camera supporting resolutions up to 2160 60p





IR  
SELECT  
1 2 3



SSUSB

DC IN  
12V



NDI|HX  
PoE+



AUDIO IN



RS-232 OUT



RS-232 IN

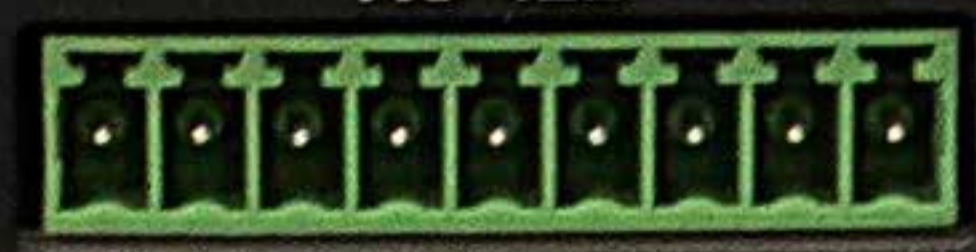


HDMI 2.0 OUT



OUTPUT  
SWITCH

RS-422



1 2 3 4 5 6 7 8 9









**NewTek**<sup>™</sup>

**NDI<sup>®</sup> HX 4K**

POWER

STANDBY





NDI<sup>®</sup> | HX 4K

POWER

STANDBY