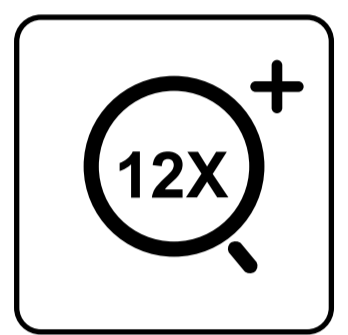




## Nexvoo Optical Zoom HD Camera N412/N420

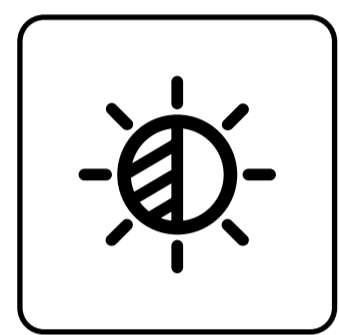
Nexvoo N412 / N420 is integrated with latest NDI technology, equipped with an industry-level image processing solution, an advanced 2.07MP sensor, and 12x / 20x optical zoom lens, to deliver sharp and high definition video. With NDI, HDMI, 3G-SDI, and USB3.0 video output connectivity, it can be used in various applications to produce and stream video, for studio room, classroom, meeting room, church, etc. Creating video content has never been easier !



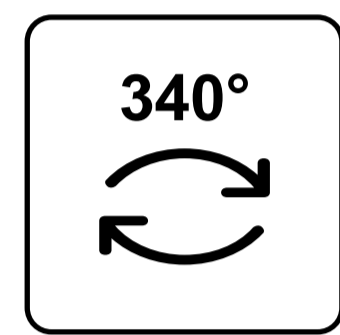
Optical Zoom



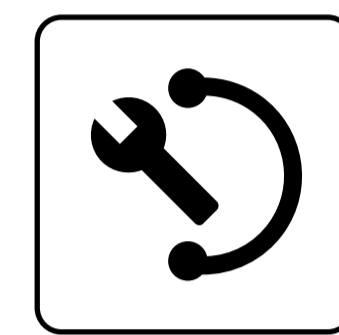
1080P HD



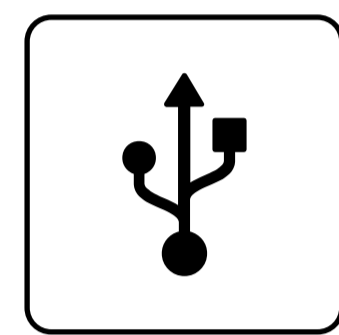
Auto Gain



PTZ Rotation



Flexible installation



Plug and Play

## Compatible With



## Key Features



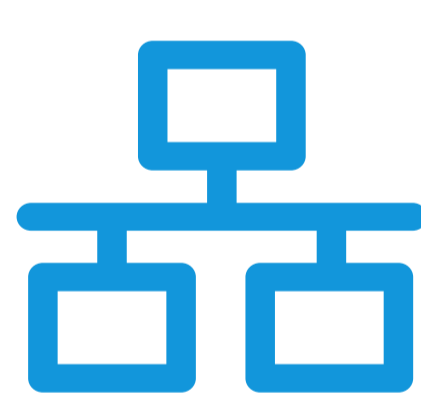
### 1080P&HD resolution

Deliver up to 1080p@60 Ultra HD video resolution; HDR, 3D Noise Reduction feature.



### 12x / 20x Optical zoom

1080P wide angle optical lens: 12x/20x optical zoom and 16x digital zoom



### NDI, HDMI, 3G-SDI, USB3.0

NDI, HDMI, 3G-SDI, USB outputs 1080P video simultaneously, fit for different application over HDMI and IP, support both H.264, H.265 encoding.

NDI|HX

### With Latest NDI SDK

NewTek's NDI® creates a plug-and-play environment for various products and platforms in live streaming, making it possible to produce abundant and diverse live content.



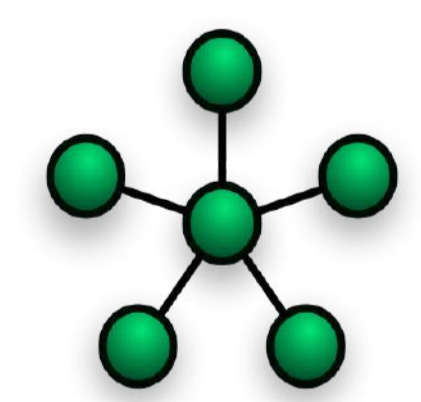
### POE

Support POE: one single CAT5/6 to get video, control and power supply.

VISCA

### VISCA over IP

Standard Sony VISCA, IP VISCA, PELCO-P, PELCO-D control protocol. IP VISCA over both TCP and UDP; ONVIF.



### Daisy Chain

7 PTZ cameras connect with 1 controller via VISCA In and VISCA out, to be controlled.



### Full coverage of the PTZ

Smooth PTZ mechanical design, accurate and fast pan tilt zoom movement; 200 presets.

## Work With (including but not limited to)



## TECH SPECIFICATIONS

### Camera

- Sony 1/2.8-inch 2.07MP sensor
- Scanning mode: Progressive scan
- F1.8-2.8 Aperture
- Zoom
  - N412: 12x optical zoom + 16x digital zoom
  - N420: 20x optical zoom + 16x digital zoom
- Field of view
  - N412: FOV(H): 72.5° - 6.9°,  
FOV(V): 44.8° - 3.9°
  - N420: FOV(H): 58.7° - 3.2°,  
FOV(V): 33° - 1.8°
- Min LUX: 0.5 Lux @ (F1.8, AGC ON)
- Shutter Speed: 1/25s ~ 1/10000s
- White Balance  
Auto, Manual, Indoor, Outdoor, One Push
- 2D/3D Noise Reduction
- SNR: ≥ 55dB
- HDR
- Aspect ratio 16:9
- Focus: Auto / Manual
- Support Backlight Compensation
- Support Image Flip
- Support Video Freeze
- Pan Rotation Angel
  - Pan: -170° ~ +170°
  - Tilt: -30° ~ +90°
- Pan Rotation Speed
  - Pan: 0.1° ~ 90°/s
  - Tilt: 0.1° ~ 90°/s
- Preset: 200
- Preset accuracy: 0.1° ± 10%
- Video Format
  - HDMI  
1080p/60, 1080p/50, 1080p/59.94,  
1080p/30, 1080p/29.97  
1080i/60, 1080i/50, 1080i/59.94  
720p/60, 720p/50, 720p/59.94
  - 3G-SDI  
1080p/60, 1080p/50, 1080p/30,  
1080p/29.97, 1080p/59.94, 1080p/25  
1080i/60, 1080i/50, 1080i/59.94  
720p/60, 720p/50, 720p/59.94

### Network

- Video Encoding Standard  
MJPEG / H.264 / H.265
- Video Stream
  - Mainstream x 1
  - Sub stream x 1
- Mainstream Resolution  
1920x1080, 1280x720, 1024x576
- Sub Stream Resolution  
1920x1080, 1280x720, 720x576, 720x480,  
320x24
- Video Bit Rate  
32kbps~51200kbps
- Bit Rate Control  
Variable Bit Rate, Constant Bit Rate
- Audio Compression Standard  
AAC, G711A
- Audio Bit Rate  
96Kbps, 128Kbps, 256Kbps
- Stream protocol  
TCP/IP, HTTP, RTMP, RTSP, RTMPS, ONVIF,  
SRT, DHCP, VISCA over IP (UDP&TCP),  
NDI|HX2

### LEARN MORE

For more information on Nexvoo N412/N420 Camera visit <https://www.nexvoo.com>

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### USB Features

- Operating System
  - Windows 7, 8.1, 10, 11
  - Mac OS
  - Linux
  - Android
- Video Encoding Standard  
YUY2 / MJPEG / H.264 / H.265
- Video Format:
  - YUY2: 1080p/30 (Maximum)
  - H.264 AVC: 1080p/60 (Maximum)
  - H.264 SVC: 1080p/60 (Maximum)
  - MJPEG: 1080p/30 (Maximum)
  - H.265: 1080p/60 (Maximum)
- Support USB Audio
- UVC1.1-1.5, UAC1.0
- Support UVC PTZ Control

### Connector

- HD Output
  - HDMI x 1, HDMI 1.4
  - 3G SDI x 1, SMPTE-274M(Level A), SMPTE-296M
- Network Port  
LAN:10M/100M/1000M, POE(IEEE802.3at)
- Audio Port  
3.5mm Audio Port x 1, Line In
- USB  
USB-B x 1, USB 3.0/2.0
- Communication Port
  - RS232 In x 1, 8-pin mini DIN, Maximum distance:  
30 meters, VISCA / Pelco-D / Pelco-P protocol
  - RS232 Out x 1, 8-pin mini DIN, Maximum distance:  
30 meters, VISCA / Pelco-D / Pelco-P protocol
  - RS422 In x 1, Compatible with RS485, 5-pin Phoenix  
port, Maximum distance: 1200 meters, VISCA/Pelco-D/  
Pelco-P protocol
- Power Port  
JEITA Type (DC IN 12V)

### General Specifications

- Input Voltage: DC 12V
- Input Current: 1.0A(Maximum)
- Power Consumption: 12W(Maximum)
- Operating Temperature  
32~104°F (0-40°C)
- Storage Temperature  
-13~160°F (-25~70°C)
- Relative humidity:  
5~95%, noncondensing
- Dimension (W x H x W)
  - 6.34 x 5.24 x 7.13 (Inches)
  - 161 x 133 x 181 (mm)
- Color: Black / White
- Weight: 2.4 lbs / 38.8 oz (1.1 kg)

### Package Contents

- Nexvoo N412 / N420 Camera
- Power Adapter (DC 12V)
- IR Remote Control
- User Manual
- RS-232 Cable
- HDMI Cable

### Warranty

2-year limited hardware