KEY FEATURES

N6-420X



- NDI Certified
- Zoom: Optical 20X
- Video Output: NDI HX3, HDMI, USB C
- Horizontal Angel of View: 79°
- Video Resolution up to 4K60
- IP resolution up to 4K60.
- RTSP, RTMP, SRT IP streaming
- Al Exposure, Al Focus
- Power: 12VDC, PoE+





























OVERVIEW

Bolin's N-Series PTZ cameras support NDI® HX3 and are fully compatible with NDI-enabled hardware and software. They are built on the Blue Line platform, which provides gold-standard features at an affordable price.

Our PTZ camera manufacturing principles never compromise image quality, industrial video standards, or PTZ control operation. So, these budget-friendly cameras are made with Bolin care and quality.

The N6 NDI HX3 4K60 PTZ camera N6-420X features a 20x zoom range with a Ultra High-Definition high-quality 2160P60 image output over NDI®, HDMI, USB, and IP video streams. They are perfect for huddle rooms, video conference rooms, house of worship, live production, corporate training, distance learning applications, and ProAV use.

Interoperability | Low Latency | High Quality



NDI HX3 NDI Bridge (NDI 6 Ready)



FUNCTIONALITY

- N6-420X is equipped with Sony senor to provide brilliant, high-quality images in 4K60 resolutions with 20x optical zoom range.
- Compact design and USB 3.0 (C Type) video used for Huddle Space cloud based video conferencing application.
- N6-420X cameras deliver IP streaming (RTSP, RTMP, SRT) video to network with local HDMI video and USB streaming to PC software for conventional video production and cloud based video conferencing applications.



- Image parameter adjustments includes exposure, focus, iris, shutter speed, white balance, gamma, wide dynamic range, flip/mirror and more with configurable video settings.
- Another Gold Standard feature of the Blue Line is the Color Matrix. With it, you can easily make subtle and specific corrections to the colors in your camera's image.
- Built with Bolin's latest Al-powered facial analytics engine, which enables smart focus and smart exposure to provide faster, more precise focusing and improved auto exposure on faces in complex lighting environments
- HDMI/SDI/USB and IP video has high—quality audio streaming embedded with support for Mic-in and Line-in audio input.
- Extremely quiet and smooth operation for Pan/Tilt movements combined with enhanced adaptive, variable, and super slow adaptive speed control provides accurate and effective operation experiences. Picture Profile Preset: Image parameter settings restored with presets and quick access operation.
 Control protocal supports: Serial RS232/RS422/RS485, IP/Onvif/Visca-Over-IP, UVC, IR Remote.
- Supprot 1GB Ethernet network, independent PoE+ (IEEE 802.3at) power and 12VDC; Standard mounting and ceiling mounting with E-Flip function.
- Firmware updates, upgrade via IP interface to keep camera features and performance up to date.



N6-420X



Product Specification

Model No. Camera	N6-420X 20X 4K60
Image Sensor	Sony Progressive scan CMOS image sensor 1/2.8 type
Number of effective pixels	3840x2160, 8.29MP
Zoom	Optical Zoom 20X, Digital Zoom 16X
Focal Length	f= 3.55 mm (WIDE) to 71 mm (TELE)
Aperture	F2.0 (Wide) to F3.8 (Tele)
Horizontal Angle of View	78.59° (W)~4.92° (T)
Vertical Angle of View	48.39° (W)~2.79° (T)
Min. object distance	10mm (Wide)
Min. Illumination	0.5lux(color), 0.1lux(black)
Shutter Speed	1/30-1/100K
Focus	Auto, Manual, One Push
White Balance	Auto, Indoor, Outdoor, OPW, ATW, Manual, USER, SVL
Exposure	Auto, Manual, Shutter/Iris priority
Image Adjustment	Brightness, Color(Saturation), Contrast, Sharpness, HUE
Back Light Compensation	On/Off
E-Flip	On/Off
WDR	On/Off
Image Stabilizer	·
Defog	Yes
Mirror	Horizontal
Day/Night	On/Off
Contrast	Yes
Color Gain	Yes
Color Hue	Yes
Color Matrix	Yes
Black Level	
Gamma	Yes, 4 levels (0.45, 0.50, 0.55, 0.63)
High Sensitivity	Yes
Scene	Default, Clear, Bright, Soft
Focus Zone	Face Priority, All Area, Upper Area, Central Area, Lower Area
Al Face Detection Focus	Yes Yes
Al Face Auto Exposure Noise Reduction	2D/3D, 1-100
S/N Ratio	2D/3D, 1-100 ≥50db
OSD	Editable
HDMI Signal System	Euitable
Tibini digital dystem	
Video Format - HDMI	4K-2160p60/59.94/50/30/29.97/25/23.98; 1080p60/59.94/50/30/29.97/25/23.98; 1080i60/50; 720p60/50
Color Format	12bit YUV / 8bit RGB
Color Space	YUV, RGB
OSD Menu Display	YES
USB Signal System	
USB Port	USB3.0,Type C
Encoder	H.264/MJPEG/YUV2
USB Video Format	H.264/MJPEG:(3840x2160,1920×1080,1280X720,800x600,704x576,640X480,320X240) 50/60/25/30fps YUV2: 3840X2160 15fps
	(1920X1080,1280X720,800x600,704x576,640x480,320X240) 50/60/25/30fps
Compatible Integration	UVC, UAC
Video Conference	Most video conference platform in the market
Compatibility	
Network-IP Streaming	NDLING MIDEO MIGHENOLIOCIA
Video Codec	NDI HX3, MJPEG, AVC/HEVC-H.264/265 by SoC
Network Interface	RJ45 port-Standard 1Gbps Ethernet
IP Video - 1st Stream	4K-2160p60/59.94/50/30/29.97/25/23.98; 1080p60/59.94/50/30/29.97/25/23.98; 720p60/50
IP Video - 2nd Stream	704x576, 640x480, 640x360, 576x480, 352x228, 320x240, 320x180; Frame Rate P30/25
True Dual Output	Video resolution and framerate: IP and HDMI can be output with different format
IP Protocols	TCP/IP, ICMP, ARP, RTP, UDP, HTTP, DNS, DHCP, FTP, NTP, NDI
Application Protocols	RTP, RTSP, RTMP,RTMPS, SRT, NDI
Multi-stream	2 Streams (Up to 8 viewers at the same time)
Audio Compression	AAC-LC, Broadband Audio Encoding



Product Specification

Model No.	N6-420X
Camera	20X 4K60
Network-IP Streaming	
Compatible Integration	ONVIF2.4 (Profile S), VISCA Over IP, NDI
OSD	Customized OSD
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari
Latency - Codec	NDI Certified, <100ms at 4K60
Bandwidth	1Mbps - 122Mbps
	Results may vary depending on network configuration and management settings.
NDI Bridge	Yes, with NDI 6 supported
Interface	
HDMI Video Output	HDMI 2.0X1 Type A
IP Video Stream	Up to 4K60
Camera Control Interface	RJ45X1-RS232; RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control
Control Protocol	VISCA. VISCA Over IP, Pelco P/D, Onvif, NDI
LAN Port	RJ45X1 (1000BASE-T Ethernet port)
USB Port	USB3.0,Type C
USB Protocol	UVC, UAC
Dip Switch	Camera bottom panel: 8 PIN x 2
Firmware Upgrade	HEVC IP stream system upgrade via IP
	Upgrade via IP for camera system MCU and Encoder
IR ID	ID selector for IR controller, total 3
Power Connector Type	DC12V (IEC60130-10 (JEITA standard RC-5320A) TYPE4)
	INPUT: RJ45, PoE+ (IEEE802.3at)
Audio Input	Line in input, 3.5mm audio jack*
	AAC (Bit Rate(bps)48K/64K/96K/128K; Sampling Rate(bps)44.1K/48K)
Audio Output	Line in input, 3.5mm audio jack* (Not Activated)
Audio Output	Embedded with HDMI/USB/IP streaming, 24bit Stereo, sample rate: 44.1KHz, 48KHz, PCM24
Audio S/N Ratio	≥85dB
Audio THD+N	≤0.05%
Audio Noise (RMS)	≤-90dB
Mechanical	
Pan Movement	Horizontal:±170 degrees continuous pan (Zoom Adaptive Speed Range: 0.05° ∽60°/S)
Tilt Movement	Vertical:68° (-34° to +34°) (Zoom Adaptive Speed Range: 0.05° ∽30°/S)
Speed Proportional	Pan/Tilt Speed proportional to zoom range
Preset Position	255 positions, Speed 50°/s, Accuracy: 0.05° 9 presets on remote controller
Preset Speed	0∼5 Level Adjustable
·	YES, (Picture Profile Preset-Preset Memory for image parameters, like: Backlight Compensation, White Balance, Auto
Preset Memory	Exposure, Bright, Iris, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast
Motionless Preset	On/Off
PTZ Trace Memory	Yes, 4 (Supported via IP interface)
Cruise	Yes,4
Adaptive PT	Zoom range adaptive Pan/Tilt speed
Pan/Tilt Direction	Normal, Invert
Quietness	NC35 or less
Home Position	Support
Environmental	Indoor
General	1
Body	Aluminum Alloy
Mount	Ceiling mount, Wall mount, Tripod
Size of Tripod Screw Hole	1/4"-20UNC with safety joint
Operating Temperature	-10 to +50 (°C), 32 to 130 (°F)
Operating Humidity	≤80% Suitable for Use
Power Input	DC±12V, PoE+ (IEEE802.3 at Type 2 Calss 4)
Power Consumption	Min:15W(Static state with no movement); Max:18W(Fully loaded operation)
Dimension	242*170*180mm (LxWxH)
Weight	2kg (Net weight)
Body Color	Dark Grey
Accessory	Dank Groy
Power Supply	12VDC 2A X1, Universal various power core.
Remote Controller	Full Function IR Controller X1
Serial Control Adaptor	RS232/RS422 adapter cable x1 For serial RS232/422 control
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