BOLIN

NDI HX3 Indoor PTZ Camera



R9-230NX

Full HD NDI HX3 PTZ Camera

The R9-230NX NDI HX3 PTZ camera is equipped with Sony image block with 30x zoom range UHD lens to provide Full HD(1080P60) cristal extreme high-quality color image in tough low light environment and stable image with super iamge stabilizer to output HMDI, 3G-SDI, Optical SDI, and NDI HX3 video streaming for NDI® and are fully compatible with NDI-enabled hardware and software.

R9-230NX



KEY FEATURES

- NDI HX3 Certified
- Sony 1/1.18 type CMOS sensor STARVIS II
- 30X zoom range
- Resolution 1080i59.94, 1080p60
- IP Video Resolution: Up to 1080p60
- Video Output: Simultaneous 3G-SDI, HDMI, NDI HX3
- SFP Optical SDI video output
- RTSP. RTMP, SRT Supported
- NDI Control, Visca Ocer IP, Onvif, FreeD, Serial Control
- Extreme Low Light Performance
- Super Image Stabilizer

































IMAGE MODULE

- The latest Sony new image block that achieves higher visibility by adopting the 8M ultra high resolution lens, 4M image sensor and ISP from Sony.
- 1/1.8 inch STARVIS II sensor
- Enhanced High Resolution image quality
- 30X 8M High Resolution optical zoom lens
- Advanced AF performance
- Wide Dynamic Range (Wide-D)
- Visibility Enhancer (VE)
- Super low light in color performance
- Super image stabilizer

SONY



FEATURES

Image Quality Upgraded in Day and Night

The 8M compatible lens, 4M image sensor (1/1.8 type), and ISP all use new devices from Japanese manufacturers. The combination of these three Core technologies provides an overwhelming sense of resolution, and the advanced AF / AE / AWB functions reproduce faithful images even in low-light environments.



High Resolution-Day Light (Pre/New)



High Resolution-Night View (Pre/New)

Super Image Stabilizer

- The camera enables two levels of image stabilization capabilities, super, super+, which provides clear pricture/image in vibrating environment use.
- See R9-230H Stabilization Performance video on Bolin's website



Low Light Performance

- Thanks to the new Sony 1/1.18 type CMOS sensor STARVIS II, the camera performs a great and clean image in extreme low light condition in color, and even with ICR on in color.
- See R9-230H image performance video on Bolin's website.



Interoperability | Low Latency | High Quality



R9-230NX Output Interface

NDI Control	NDI HX3	RTSP, RTMP, RTMPS, SRT	True Dual-Output
Dual 3G-SDI	HDMI		Genlock
All Video with Audio Embedded	XLR Broadcast Audio Input/Output	FreeD	Serial/IP Control

Full Broadcast SDI Format and Standard

Full Format

1920 x 1080P 60/59.94/50/30/29.97/25/24/23.98

1920 x 1080i 60/59.94/50

1280 x 720P 60/59.94/50

SDI Standard

SMPTE 292M

SMPTE 296M (1.5Gb/s)

SMPTE 424M

SMPTE 274M

SMPTE 425-A (3Gb/s)

With SMPTE352 SDI Metadata Supported

- Dual 3G-SDI
- HDMI 1.4
- NDI-HX3 and NDI Control
- SFP Optical SDI

- External Synchronization Genlock
- Audio embedded with all video output
- XLR broadcast audio input/output
- On-screen character generator
- Lifting Handle built-in

FreeD Protocol Integrated for VR/AR Video Production

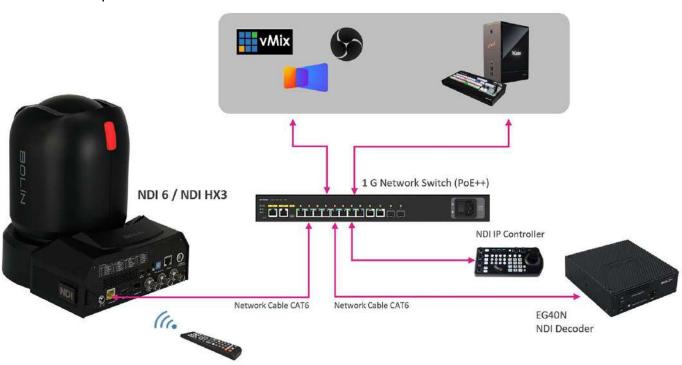
FreeD helps provide all the axis data needed for a Bolin PTZ camera to intelligently and smoothly pan, tilt, and zoom while following designated objects and people. Broadcasters can combine Bolin's FreeD-enabled PTZ cameras with available, sophisticated software to automate complex camera operations with spectacular results. It is especially useful for virtual live video productions with baseband video feeds and, with Bolin PTZ cameras, with ultra-low latency AV Over IP streaming

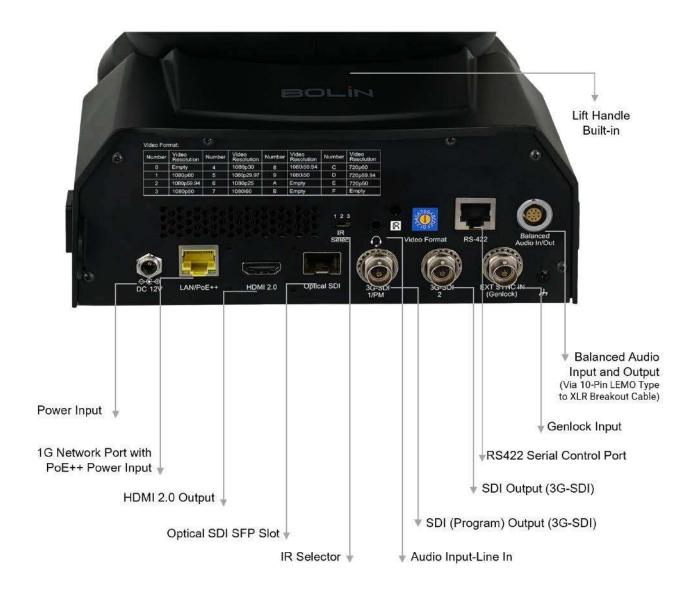


Various Control Methods

- IP Control, Serial Control, IR Remote Control, Rest API-Software Control
- Protocol Supported: NDI Control, VISCA Over IP, ONVIF, VISCA, PELCO P/D, FreeD
- NDI Control is fully compatible with NDI Ecosystem, Tricaster, vMix, OBS, ProPresenter, etc.

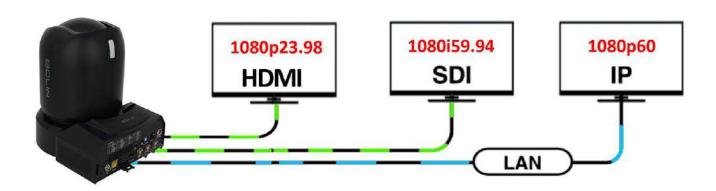






True Tri-Output

Simultaneously output SDI, HDMI, and IP, which can be set to independent formats for different application use. (The image shows video format model specific)



Smooth and Accurate Movement

- PAN: 340° (-170° to +170°); Fully proportional speed 0.01° to 100°/s
- TILT: 120° (-30° to +90°); Fully proportional speed 0.01° to 50°/s
- Preset: 255 positions, Speed 100°/s,
 0~5 Level Adjustable, Accuracy: 0.03°
- Picture Profile Preset
- Motionless Preset
- PTZ Trace Memory
- Quiet Less than NC35



FEATURES

- On-screen character generator
- All firmware upgrade via IP
- Front and Rear Tally Light
- POE++ and 12VDC/AC
- Built-in handle
- Genlock
- HDMI cable secure mount
- Available Color: Black

Move, with you

- Industry-First unique portable body design
- Facilitates your video production installation.





SPECIFICATIONS

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	Control Interface	
The state of the s	Control Protocol	Serial: VISCA, PELCO P/D; IP: VISCA Over IP, ONVIF; FreeD

SPECIFICATIONS

Model Number	R9-230NX
Codec	NDI HX3, Standard AVC/HEVC
HDMI Video Signal System	
HDMI Video Format	1920 x 1080p/59.94/60/50/29.97/30/25/23.98/24
	1920 x 1080i/59.94/60/50
	1280 x 720p/59.94/60/50
Color Precision	12bit(HDMI), YUV4:2:2, YUV4:2:0
Color Space	YUV、RGB
OSD Menu Display	Yes, with image insert
On-Screen Title	Yes, video embedded On-Screen title character generator
SDI Signal Format	
SDI Video Format	1920 x 1080p/59.94/60/50/29.97/30/25/23.98/24
	1920 x 1080i/59.94/60/50
	1280 x 720p/59.94/60/50
Color Precision	10bit(SDI), YUV 4:2:2
Color Space	YUV
Standard	SMPTE 292M , SMPTE 296M (1.5Gb/s), SMPTE 424M, SMPTE 274M, SMPTE 425-A (3Gb/s), SMPTE 2081(6Gb/s), SMPTE
	2082-1 (12Gb/s) standard / 75 Ω (BNC x 1), With SMPTE352 SDI Metadata Supported
True Dual Output	HDMI and SDI signal can be output with different format
OSD Menu Display	Yes
On-Screen Title	Yes, video embedded On-Screen title character generator
Network	
Video Compression (Codec)	NDI HX3, MJPEG,H.264/H.265 by SoC
IP Resolution/Frame Rate	1920x1080p60/50/30/25, 1280x720p60/50
True Dual Output	IP, HDMI, and SDI signal can be set with different format
IP Protocols	TCP/IP, ICMP, ARP, RTP, UDP, HTTP, DNS, DHCP, FTP, NTP, SRT, NDI
Application Protocols	RTMP(S)、RTSP、RTSP Encryption、SRT、MP2TS over UDP (Unicast, Multicast) , NDI
Color Format	-
Multi-stream	3 stream
Audio Compression	AAC-LC,G.711A/G.711U
	Broadband Audio Encoding(Duplex Communicate Supported, Audio/Video synchronization)
OSD	Customized OSD
Compatible Integration	ONVIF2.4 (Profile S), VISCA Over IP
Bandwidth (results may vary	50-60Mbps, 1080p60
depending on network configuration	
and management	
settings.)	ADLING. US. L. 100
Latency (Overall latency may	NDI HX3 certified, <100ms
increase depending on network	
configurations)	Cross Prouper Compatibility, LITMLE support for Microsoft Edge, Coople Chrome, Cirofey, and Coferi
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari
General	
Operating Temperature	-10 °C to 50 °C (14°F to 122°F)
Operating Humidity	≤80% Suitable for Use (no condensation)
Power Consumption	DC12V, PoE++(Compatible with IEEE802.3bt, Type 4 Class8)
Power Consumption	Min: 29W (Static state with no movement)
Installation Mathed	Max: 40W (Fully loaded operation)
Installation Method Mount	Stand-alone (Upright) or suspended (Pendent) or Tripod Ceiling mount, Wall mount, Tripod
Handle	Built-in for portable use application
Size of Tripod Screw Hole	1 x 1/4" safety bond point
Body Color	Black, White
Dimension-Camera	201*253*249mm(W*D*H), 201*253*256(with feet mats)
Net Weight	3.8kg (8.36lb)
Accessories Included	IR Remote controller x1, Power adapter and power cord (US, EU, UK), Mounting screws x3, RJ45 to RS422 Extension cable

ACCESSORIES

Items marked * are optional to purchase



VCC-RC-2 IR Remote Controller



*Pendant Mount for Drop Ceiling





C-WPLB *Wall Mount Plate



*LEMO connector 10Pin Mini to XLR L/R In/Out



VCC-P12-4 12VDC 4A Power Adapter



C-WM3B *Wall Mount Bracket-Size 3



BL-CM-01 *Ceiling Mount Bracket



B-OSM-12 *Optical SFP Module Transceiver 12G-SDI



EG40N *NDI Decoder



C-WM2B-CV *Wall Mount Cover-Size 3

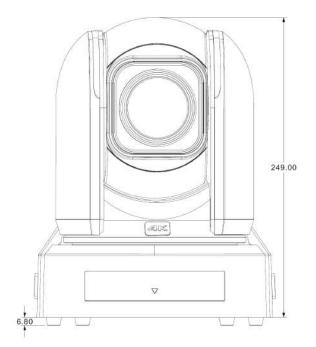


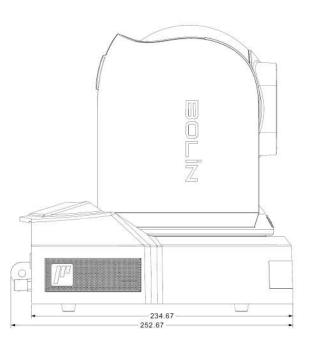
BL-PP97 *97W POE POWER INJECTOR

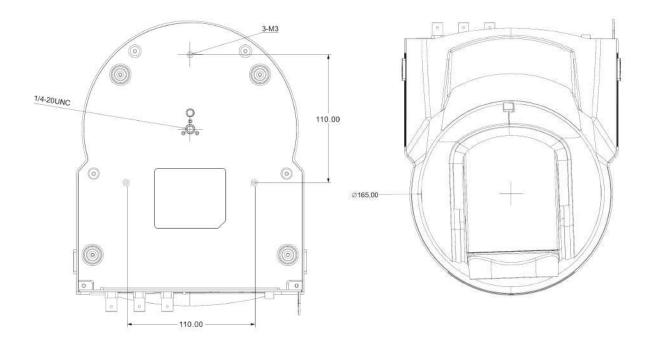
ORDER INFORMATION

(4K60, 20X, NDI HX3, Black) • R9-230NX

Unit: mm







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