

Red Line Product

BOLIN

R9 Series
Indoor PTZ Line Flagship



Redefining The Indoor PTZ Camera Experience

IMAGE MODULE

The R9 series indoor PTZ camera has three imaging solutions: a large 1" 4K30 image sensor with amazing quality, a 4K60 sensor with exceptional performance in high-speed environments, or the Full HD option with great low light and superior image stabilization for tough (challenging) environments. There is an image option for every scenario.

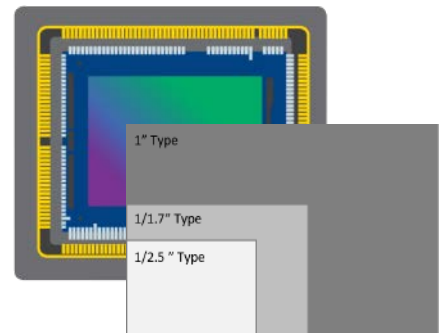
SKU: **EXU418F**



Sony Image Block

4K30, 1080p60

- 1 inch type Exmor R CMOS large sensor
- 14.4 Megapixels
- Best Image Quality in its Class
- Zeiss Vario-Sonnar T lens, Zoom Range 18X(4K)/24X(FHD)
- Optical Image Stabilizer
- Black Level
- Color Matrix
- ND Filter
- True WDR



Size of the 1 Inch Sensor Comparison

SKU: **EXU230H**



Sony Image Block

1080p60

- 1/1.8 inch STARVIS 2 sensor
- Pro AV Optimised High Resolution Image Quality
- 30X 8M High Resolution Optical Zoom Lens
- Advanced AF Performance
- High Color Performance in Super Low Light Conditions
- Super Image Stabilization

SKU: **EXU420F**



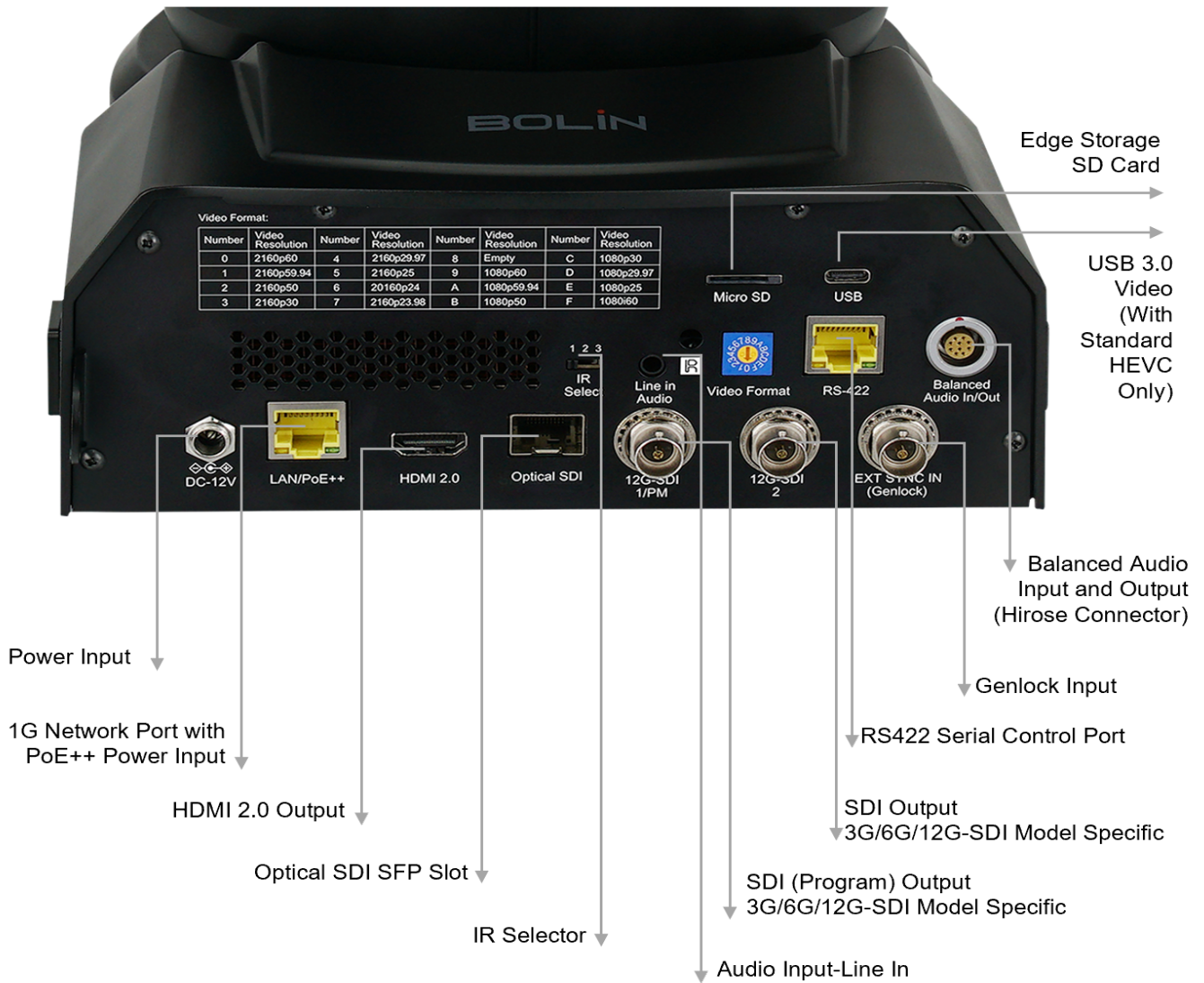
Sony Sensor

4K60

- 1/2.5 Inch CMX715 High Class Sensor
- Crisp and Clean UHD Image Quality
- Crisp with 20X High Resolution Optical Zoom
- AI Face Detection Auto Focus/Exposure



OUTPUT



- Dual 12G-SDI
- HDMI 2.0
- 4K IP Streaming - AVC/HEVC
- SFP Optical SDI
- External Synchronization Genlock
- Audio embedded with all video output
- XLR broadcast audio input/output
- USB3.0 video output (Standard HEVC Only)
- On-screen character generator

True Tri-Output

Simultaneously output SDI, HDMI, and IP, which can be set to independent formats for different application use.



Full Broadcast SDI Format and Standard (Model Specific)

3840x2160/59.94p/60p	SMPTE 292(1.5Gb/s)
3840x2160/50p	SMPTE 424
3840x2160/29.97p/30p	SMPTE 425-A(3Gb/s)
3840x2160/25p	SMPTE 2081(6Gb/s)
3840x2160/23.98p	SMPTE 2082-0/1(12Gb/s)
3840x2160/24p	with SMPTE 352 SDI Metadata
1920x1080/59.94p/60p	.
1920x1080/59.94i/60i	
1920x1080/50p	
1920x1080/50i	
1920x1080/29.97p/30p	
1920x1080/25p	
1920x1080/23.98p/24p	
1280x720/59.94p/60p	
1280x720/50p	

SITUATION-USING SDI/HDMI (Tradition AV System)

Planning an AV system structure or installation using SDI/HDMI video cables?
Do these issues sound familiar?

- Signal loss over long distances
- The need for multiple SDI/HDMI amplifiers and splitters.
- Adding hardware workaround using SDI/HDMI matrixes and routers.
- Having to extend an AV installation, by adding cables, display, and endpoints.
- Looking to utilize advanced AV Over IP solutions, but the video bandwidth is too high for a standard 1G network infrastructure.
- Large cable count and hardware management issues within the space
- Unstable/high failure rate due to too many connected devices

If the answer is “Yes”,

- A FAST HEVC solution could easily replace a traditional SDI/HDMI installation saving you time and money, by having almost no compromises on the ultimate video signal quality of an SDI/HDMI installation.

SDI/HDMI REPLACEMENT - FAST HEVC

			
SDI (12G-SDI)	Key Words	Key Words	IP Streaming (4K60) - FAST HEVC Codec
Uncompressed video/Audio delivery	Analog/Traditional	IT/Future	Codec based format (AVC/HEVC) audio/video delivery
AV signal running around 12 Gigabits/per second	High bit rate	Adaptive bitrate	Fast adaptive bitrate AV encoding
Uncompressed up to 4K/60 delivery	High cost	Lower cost	Slightly compressed UHD 4K delivery
Negligible latency AV delivery	No-Latency	Visually No-Latency	Ultra low latency - less than 2 frame/s (30ms, visually zero-latency)
High-quality AV delivery	Lossless	Visually Lossless	4K60 (4:2:2 – 8/10/12bit, visually lossless)
One cable - One signal AV delivery	1 to 1	1 to Many	20-200Mbps bandwidth (45Mbps at streaming 4K60 4:2:2/12bit, visually lossless)
Robust, reliable BNC connector and costly coaxial cable	Expensive	More affordable	Ethernet connector (RJ45) and CAT6 network cable
Up to 260ft (80m) range cable run without signal loss	Limited	Flexible Build	Flexible network infrastructure up to 290ft (90m)
Hardware device based, high power consumption	High heat	Low heat	Hardware FPGA codec with low power consumption and software decode application applicable
Supports all ancillary data	Vintage	Modern	Support some ancillary and metadata
Point to point hardware connection	1 To 1	1 To Many	Flexible one to many possibilities-Multicast
Costly solution for long distance broadcast	Expensive Build	Flexible Build	Highly flexible and lower cost IP streaming plus PoE
Predictable and very reliable	Rigid	Agile	Agile, flexible, and scalable
High quality audio	Hi-Fi	High Quality	Various high quality audio codecs

Two options of IP streaming codec:

1. Standard AVC/HEVC (H.264/265), software SOC based codec
2. Fast AVC/HEVC (H.264/265), hardware FPGA based codec

- Up to 4K60
- SDI Replacement
- Dual stream, Multicast Support
- RTSP, RTMP, RTMPS, SRT, ONVIF
- IP Control protocol: Visca Over IP, Onvif
- Compatible With Standard AVC/HEVC
- Software Decode and Hardware Decode
- H.264/265 open platform, codec from Xilinx MPSoC



FAST HEVC

High Quality
Low Bandwidth
Low Latency

**FPGA hardware codec,
utilizing Xilinx Zynq™ UltraScale+™ EV MPSoC to deliver**

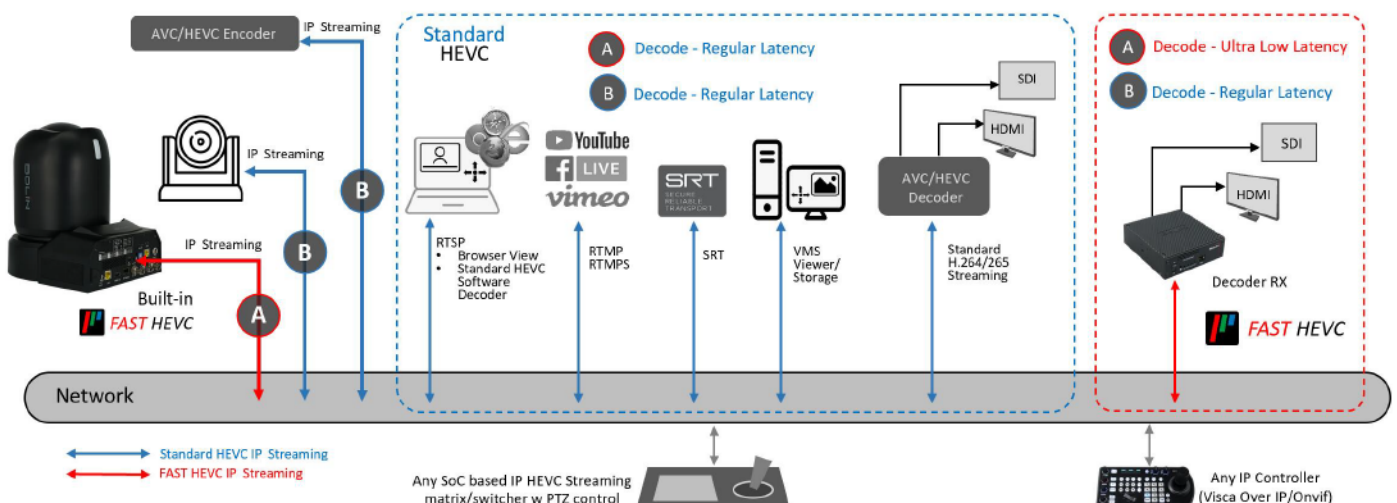
**Only 45Mbps bandwidth that streaming 4K60 at 4:2:2 12bit
in less than 2 frame/s (32ms) latency**

*Comparison-The Facts of FAST HEVC Performance

Foundation	Platform	Codec	1080p59.94/60			2160p59.94/60		
			Quality (Up To)	Latency (Point-to Point)	Bandwidth	Quality (Up To)	Latency (Point-to Point)	Bandwidth
H.264/265 AVC/HEVC	Software SOC	Stand HEVC	420SP(NV12)	4 frame/70ms	8Mbps	420SP(NV12)	25 frame/430ms	16Mbps
	Hardware SOC	Stand HEVC	4:2:2/12bit	2 frame/30ms	8Mbps	NA		
	Hardware FPGA	FAST HEVC	4:2:2/12bit(NV16)	2 frame/25ms	8-30Mbps	4:2:2/12bit(NV16)	2 frame/30ms	16-65Mbps
NDI	Hardware FPGA	Full NDI	4:2:2/10bit	3 frame/50ms	150Mbps	4:2:2/10bit	4 frame/70ms	300Mbps
Dante AV-Ultra	Hardware FPGA	JPEG 2K	4:2:2/12bit	1 frame/6ms	250Mbps	4:2:2/12bit	1 frame/8ms	550Mbps

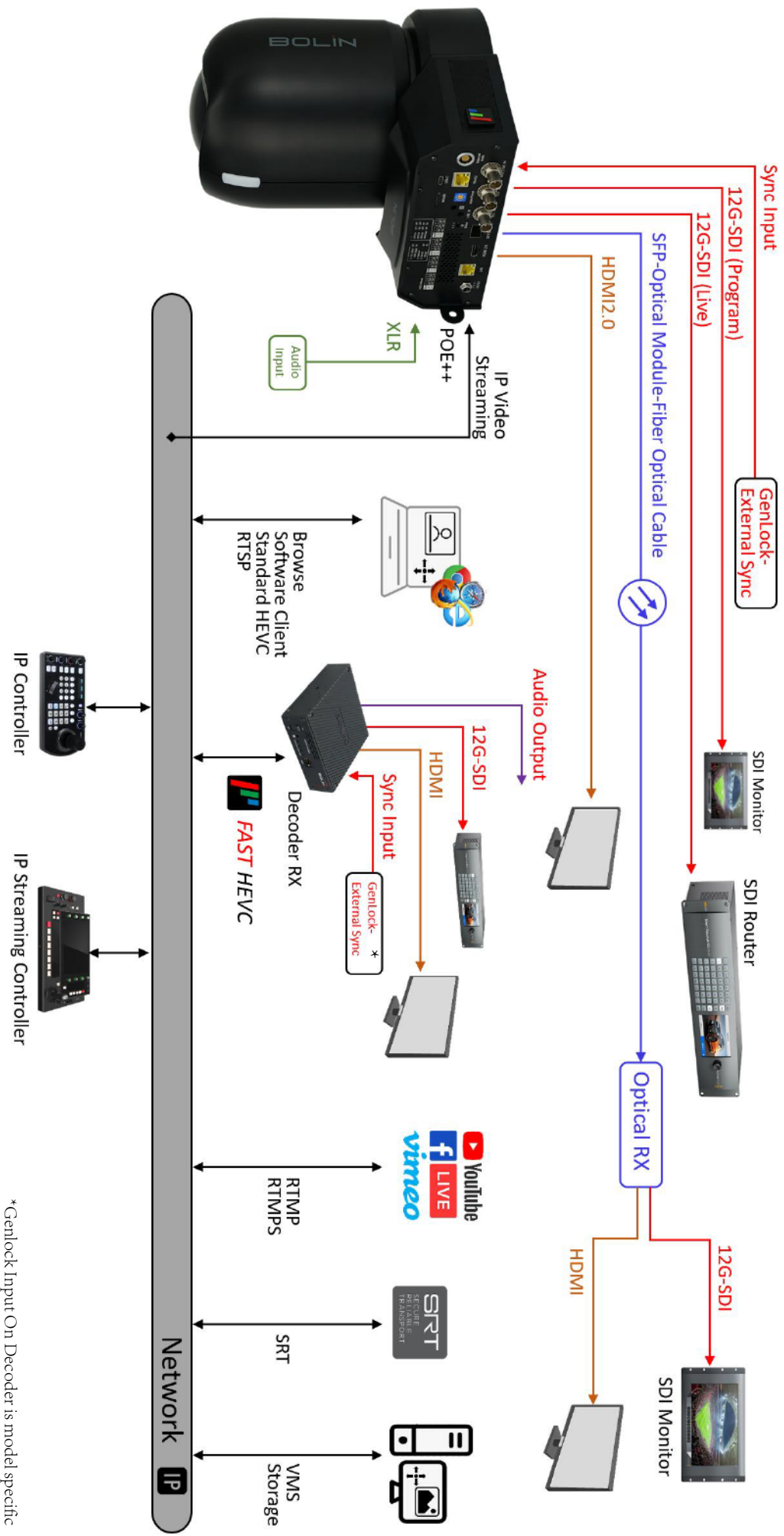
*Results may vary depending on network configuration and management settings.

Open Platform



Bolin FAST HEVC codec camera can be decoded by standard HEVC decoder but will not have Ultra Low Latency
HEVC codec camera/device can be decoded by Bolin FAST HEVC decoder but will not have Ultra Low Latency

WORKFLOW



*Genlock Input On Decoder is model specific

MOVEMENT

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, White



Move, with you

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



Move • With You



SPECIFICATIONS

	R9-230H HEVC	R9-418F FAST HEVC	R9-420F FAST HEVC
Codec			
Camera Image	30X Full HD	18X 4K30/FHD	20X 4K60
Image Maker	Sony	Sony	Bolin
Image Sensor	CMOS image sensor 1/1.18 type STARVIS 2 sensor	1.0-type back-illuminated Exmor R CMOS sensor	IMX715, CMOS image sensor 1/2.8 type
Number of effective pixels	2712 x 1538, 4.17MP	14.2 MP	8.29MP, 8.29 MP
Picture elements	2688 x 1520, 4.09MP	3840 x 2160, 8.29 MP	3840x2160
Lens	Enhanced optical zoom 30X	Zeiss Vario-Sonnar T lens, Zoom Range 18X(4K)/24X(FHD)	20X
Tele Convert Mode	-	-	-
Digital Zoom	12X	-	16X
Horizontal Angle of View	58.1° (Wide) - 2.3° (Tele),	64.6° (Wide) - 6.1° (Tele),	78.59° (W)~4.92° (T)
Vertical Angle of View	34.9° (Wide) - 1.7° (Tele),	39.2° (Wide) - 3.4° (Tele),	48.39° (W)~2.79° (T)
Focal Length	f= 6.5 mm (WIDE) to 162.5 mm (TELE)	f=9.3 to 111.6mm, F2.8(Wide), F4.5(Tele)	f= 3.55 mm (WIDE) to 63.58 mm (TELE)
Min. object distance	100mm (Wide), 1200mm (Tele)	80mm (Wide), 1000mm (Tele)	50cm
Aperture	F1.6 (Wide) to F4.8 (Tele), 16 steps	F2.8 Constant (W)~F4.5(T), 16 Steps	F2.0 (Wide) to F3.8 (Tele)
Min. Illumination	ICR-Off, 0.009 lx (1/30 sec, 50%, High Sensitivity On); ICR-On, 0.00008 lx (1/30 sec, 50%, High Sensitivity On)	0.5 lx (1/30 sec, 50%, High Sensitivity On) 2.0 lx (1/30 sec, 50%, High Sensitivity Off)	0.5lux (color) , 0.1lux (black)
Shutter Speed	1/1 sec to 1/10000 sec (22 steps)	1/1 sec to 1/10000 sec (28 steps)	1/1 sec to 1/10000 sec (22 steps)
Focus	Spot Focus, Auto / Manual / One Push Trigger /Full Scan one push trigger / Near Limit / Spot Light Avoidance	Spot Focus, Auto Focus(Trigger/Interval), Manual Focus(Variable Speed), One Push Trigger, Near Limit,	Auto, Push, Manual
White Balance	Auto / ATW / Indoor / Outdoor / One Push WB / Manual / One push Triger / Outdoor Auto / Sodium Vapor Lamp Auto / Sodium Vapor Lamp / Sodium Vapor Lamp Outdoor Auto	AUTO, ATW, Indoor, Outdoor, One Push WB, Manual WB, Outdoor Auto, Sodium Vapor Lamp (Fix/Auto/Outdoor Auto)	Auto, Indoor, Outdoor,OPW,ATW, Manual
Exposure	Full Auto / Gain Limit Setting / Shutter Priority / Iris Priority / Manual / EV compensation	Full Auto, Gain, Shutter Priority, Iris Priority, Manual, Bright	Auto, Manual, Shutter /Iris /Brightness priority
Features	High Sensitivity, Backlight Compensation, HLC, E-FLIP, Mirror, Day/Night	High Sensitivity, Backlight Compensation, HLC, E-FLIP, Mirror, Day/Night	Backlight Compensation, E-FLIP, Mirror, Day/Night, Flicker ,Contrast, Effect, SHARPNESS
WDR	Yes	YES(130dB), Shown as VISIBILITY ENHANCER in OSD	120db
ND Filter	-	Yes	-
Image Stabilizer	Yes, Super, Super+	YES, Optical Image Stabilizer	Yes
Color Gain	Yes (15 step)	Yes (15 step)	Yes
Color Hue	Yes (15 step)	Yes (15 step)	Yes
Gamma	Standard / Straight gamma	Standard/Straight/Pattern	Yes
Gamma Level	-	Yes (15 step)	0-4
Black Level	-	Yes (97 step)	-
Black Gamma	-	Yes (15 step)	-
Color Matrix	-	Off/Standard/High Saturation/FL light	Yes
Noise Reduction	On/Off (level 5 to 1 / Off, 6 steps), 3D / 2D	On/Off (level 5 to 1 / Off, 6 steps), 2D/3D	On/Off (level 5 to 1 / Off, 6 steps), 3D / 2D
S/N Ratio	≥50db	≥50db	≥50db
HLC	Yes	Yes	-
E-Flip	Yes	Yes	Yes
Privacy Zone Masking	Yes	Yes	-
Defog	Yes, (off, low, mid, high)	Yes, (off, low, mid, high)	Yes
High Sensitivity	Yes	Yes	Yes
Slow AE Response	Yes	Yes	-
Day/Night	Yes	Yes	Yes
Backlight Compensation	Yes	Yes	Yes
Low Latency Mode	Yes	-	-
AI Face Detection Focus	-	-	Yes
AI Face Auto Exposure	-	-	-
Scene Style	-	-	Default, Clear, Bright, Soft, Bolin
Focus Zone	-	-	Face Priority, All Area, Upper/Central/Lower Area
Mechanical			
Pan Movement	PAN: 340° (-170° to +170°); Fully proportional 0.05° to 100°/s		
Tilt Movement	TILT: 120° (-30° to +90°); Fully proportional 0.05° to 75°/s		
Speed Proportional	Pan/Tilt Speed proportional to zoom range		
Preset Position	255 positions, Speed 100°/s, 0~5 Level Adjustable, Accuracy: 0.1°		
Preset Memory	Picture Profile Preset-Preset Memory for image parameters: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Iris, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)		
Motionless Preset	YES, ON/OFF		
PTZ Trace Memory	YES, 12		
Cruise	YES, 4		
Quietness	NC35 Compliant		
Home Position	Yes		
FreeD	Yes, FreeD protocol for AR/VR camera tracking, via serial control/IP (Via fw upgrade)		
Environmental	Indoor, IP50		
Interface			
HDMI Video Output	HDMI 2.0 Type A		
SDI Video Output	3G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M standards, 75Ω BNC x 2, SDI/PM for output to has OSD display	6G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M / SMPTE 274M /SMPTE ST-2081 standards, 75Ω BNC x 2, SDI/PM for output to has OSD display	12G-SDI, SMPTE424M /SMPTE292M /SMPTE 296M / SMPTE 274M /SMPTE ST-2081 /SMPTE ST-2082 standards, 75Ω BNC x 2, SDI/PM for output to has OSD display
SDI Optical Fiber Output	Optical 12G-SDI (Module Excluded). Detachable slot, Connector: Duplex LC (optional via ST, LC or SMPTE) Laser Unit: Single-mode 1,310nm DFB-LD transmitter and PIN receiver Compliant with MSA SFP+ Specification SFF-8402.		
Network LAN Port	RJ45X1, Standard 10M/100M/1000M Base-TX Ethernet, LAN connector for IP control/video output/audio output/System FW Upgrade		
Synchronization System	Internal/External synchronization (BBS/Tri-level sync)		
External Sync Input	Genlock, BNC connector, BBS (Black Burst Sync), tri-level sync supported		
Audio Input	Balanced XLR (Hirose Connector via Atomos 10-Pin LEMO Type to XLR Breakout Cable) with 48V Phantom power 3.5mm TRRS for bidirection audio intercom		
Audio Output	Balanced XLR (via Atomos 10-Pin LEMO Type to XLR Breakout Cable), embedded with HDMI, SDI, USB and IP 3.5mm TRRS for bidirection audio intercom		
Tally Light	Red, Green Color/Front and Rear		
Dip Switch	Video Resolution Dip Switch x1		
System Firmware Upgrade	Upgrade via IP for camera system MCU, Driver, FPGA and Encoder		
Power Connector Type	INPUT: DC12V, connect with screw secure (Type - 5.5mmx2.1mm Male DC Power Plug Connector & Screw Lock Female Panel Socket Mount Adapter) INPUT: RJ45, PoE++ (IEEE802.3bt)		
Control Interface	RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control		
Control Protocol	Serial: VISCA, PELCO P/D; IP: VISCA Over IP, ONVIF; FreeD (via Hw Upgrade)		

SPECIFICATIONS

	R9-230H	R9-418F	R9-420F
Codec	HEVC	 FAST HEVC	 FAST HEVC
HDMI Video Signal System			
HDMI Video Format	1920 x 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p	3840 x 2160/29.97p/30P 3840 x 2160/25p 3840 x 2160/23.98p 3840 x 2160/24p 1920 x 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p	3840 x 2160/59.94p/60P 3840 x 2160/50p 3840 x 2160/29.97p/30P 3840 x 2160/25p 3840 x 2160/23.98p 3840 x 2160/24p 1920 x 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p
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 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p	3840 x 2160/29.97p/30P 3840 x 2160/25p 3840 x 2160/23.98p 3840 x 2160/24p 1920 x 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p	3840 x 2160/59.94p/60P 3840 x 2160/50p 3840 x 2160/29.97p/30P 3840 x 2160/25p 3840 x 2160/23.98p 3840 x 2160/24p 1920 x 1080/59.94p/60p 1920 x 1080/59.94i/60i 1920 x 1080/50p 1920 x 1080/50i 1920 x 1080/29.97p/30p 1920 x 1080/25p 1920 x 1080/23.98p/24p 1280 x 720/59.94p/60p 1280 x 720/50p
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		
USB Signal Format			
USB Port	USB 2.0 Type-C	-	USB 2.0 Type-C
Encoder	H.264, MJPEG	-	H.264, MJPEG
USB Video Format	1920x1080p60/50/30/25 1280x720p60/50	-	3840 x 2160p/60/50/30/25 1920x1080p60/50/30/25 1280x720p60/50
Compatible Integration	UVC, UAC	-	UVC, UAC
Network			
Video Compression (Codec)	MJPEG,H.264/H.265 by SoC	AVC-H.264/HEVC-H.265/MJPEG/MP4 by FPGA	
IP Resolution/Frame Rate	1920x1080p60/50/30/25, 1280x720p60/50	3840x2160p30/25, 1920x1080p60/50/30/25, 1280x720p60/50	3840x2160p60/50/30/25, 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	TCP/IP, IGMP, ICMP, ARP, QoS, SNMP, UDP, HTTP, DNS, DHCP, FTP, NTP, UPNP, SRT	
Application Protocols	RTMP(S), RTSP, RTSP Encryption, SRT, MP2TS over UDP (Unicast, Multicast)	RTMP, RTSP, RTP Streaming (Unicast, Multicast), MP2TS over UDP (Unicast, Multicast), TS over RTP, TS over SRT, WebRTC, RTSP Encryption	
Color Format	-	10bit, YUV 4:2:2	
Multi-stream	3 stream	2 stream	
Audio Compression	AAC-LC,G.711A/G.711U Broadband Audio Encoding(Duplex Communicate Supported, Audio/Video synchronization)	64Kbps(G.711) / 16Kbps(G.722.1) / 16Kbps(G.726) / 32-128Kbps(MP2L2) / 32-128Kbps(AAC-LC) Selectable	
OSD	Customized OSD		
Compatible Integration	ONVIF2.4 (Profile S), VISCA Over IP	ONVIF2.4 (Profile S/G/T), VISCA Over IP	
Bandwidth (results may vary depending on network configuration and management settings.)	8Mbps, 1080p60	30-50Mbps, 4kp60 12 bit 4:2:2 10-20Mbps, 1080p60 12 bit 4:2:2	
Latency (Overall latency may increase depending on network configurations)	10 frame (e.g. 1080p60 latency is < 170ms glass to glass)	2-3 frame (e.g. 2160p60 latency is < 45ms glass to glass)	
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 Input	DC12V, PoE++(Compatible with IEEE802.3bt, Type 4 Class8)		
Power Consumption	Min: 29W (Static state with no movement) Max: 40W (Fully loaded operation)	Min: 29W (Static state with no movement) Max: 50W (Fully loaded operation)	
Installation Method	Stand-alone (Upright) or suspended (Pendent) or Tripod		
Mount	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, Thanks card x1		
Accessories Optional	Wall mount bracket Ceiling mount bracket Quick mounting plate Tripod mount adaptor Cable Connection Junction Box Stabilizer Platform		

ACCESSORIES

Items marked * are optional to purchase



VCC-RC-2
IR Remote Controller



VCC-P12-4
12VDC 4A Power Adapter



VCC-CC45RS
RJ45 To RS232/RS422/485 Adapter



C-PMSB
*Pendant Mount for Drop Ceiling
/Hard Surface Ceiling



C-WM3B
*Wall Mount Bracket-Size 3



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



C-WPLB
*Wall Mount Plate



BL-CM-01
*Ceiling Mount Bracket



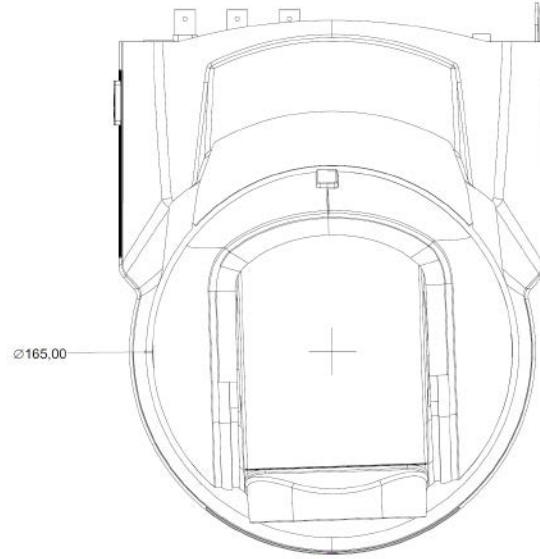
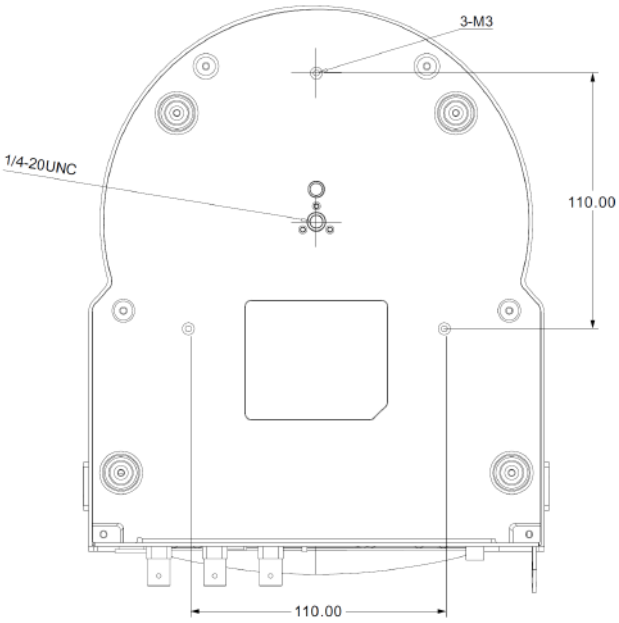
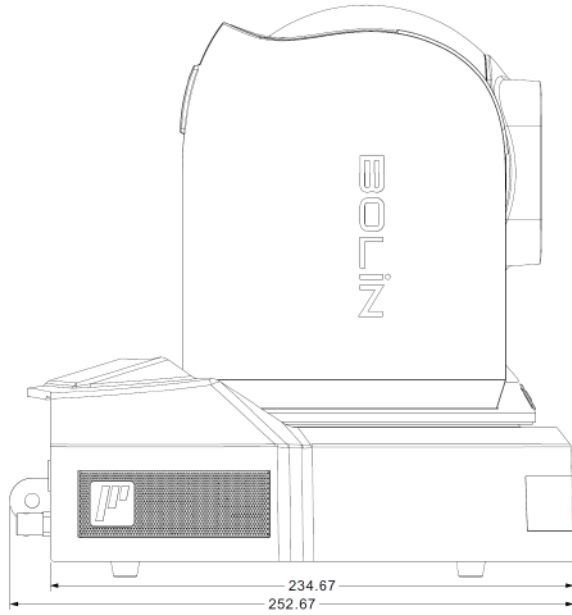
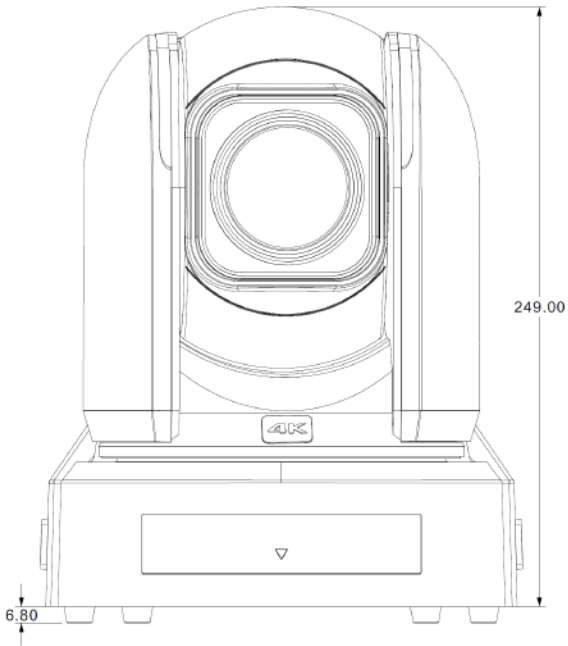
BL-PP97
*97W POE POWER INJECTOR

ORDER INFORMATION

- R9-418F (4K30/FHD, 18X/24X, FAST HEVC, Black)
- R9-420F (4K60, 20X, FAST HEVC, Black)
- R9-230H (Full HD, 30X, HEVC, Black)
- R9-418F/W (4K30/FHD, 18X/24X, FAST HEVC, White)
- R9-420F/W (4K60, 20X, FAST HEVC, White)
- R9-230H/W (Full HD, 30X, HEVC, White)

DIMENSIONS

Unit: mm



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