BC - 7 SERIES

4K PTZ Camera

BC-7-4K20S-S3MNB BC-7-4K20S-S6MNB



KEY FEATURES

- Sony 1/2.5" CMOS 8.5 Megapixels
- Optical Zoom 20X, Up to 30X in 4K and 40X in Full HD with SRZ(Super Resolution Zoom) feature
- Video Resolution: Up to 4K 2160p29.97, 1080i59.94, 1080p60
- IP Video Resolution: Up to 2160p30, 1080p60
- Video Output: Simultaneous 6G-SDI/3G-SDI, 4K HDMI, 4K IP, HDBaseT
- H.264/265 IP video stream, RTMP live streaming.
- Black Level, Color Matrix, Image Stabilizer, Ture WDR
- HTML5 Cross Browser compatibility
- Power: DC 12V, POE, HDBaseT POH(IEEE802.3bt)
- RTMP, SRT supported

VISCA ONVIF PELCO CHORT H.265 SRT SOLP

Ideal for Broadcast TV, Videoconferencing, House of worship, Live sports and events, Educational environment, Corporate training, Large auditoriums. Distance learning, Courtrooms, sports stadiums and Telemedicine applications.

BC Series is Bolin first 4K PTZ camera designed for broadcast application use quipped with SONY 4K image block brilliant broadcast-quality Super-High-Resolution color image in 4K30 with excellent low-light sensitivity and full HD footage can also be captured at up to 1080p60,

which is optimal for capturing fast, spontaneous action.

SRZ - Super-Resolution-Zoom expends zoom range to 30X zoom at 4K, or 40X zoom at FHD without sacrificing detail.

TRUE Dual Output PTZ camera provides simultaneous 6G/3G-SDI and remote 4k IP video streaming and control. It is a TRUE Dual Output PTZ where SDI and IP formats can be set independently. **Comprehensive** image parameter settings (Black Level, Color Matrix and Trace Memory) and Tally lights for Broadcast-friendly use and Pro AV applications.

Extremely quiet and smooth Pan/Tilt movements combined with enhanced adaptive variable and super slow speed control provides accurate and effective operation experiences.

License Upgradable from FHD to 4K. Not ready for 4K? Have easy of mind to own a 1 inch CMOS FHD camera first, upgrade to 4K when you need it. Your investment is protected.







Uncompromising 4K images

Equipped with Sony 4K image block with Bolin FPGA video processing which delivers an uncompromised broadcast quality 10bit color pictures in detail-packed 4K/30p. Also the footage can be captured in Full HD 60p for fast-moving action applications. Excellent low light sensitivity brings low noise color video images in low light levels as low as 0.41x, making it an ideal choice for low light environment like live hall and theater.

Image Stabilizer

Bolin camera's built-in image stabilizer function eliminates the effect of blurred, shaky images caused by low-frequency vibration.

Versatile Video Outputs

Flexibility in professional broadcast and AV environments with multiple choices of video outputs:

- * 4K HDMI and 6G-SDI(3G-SDI) and HDBaseT
- * 4K IP streaming and RTMP live streaming, HTML5 Cross Browser compatibility

SRT Ready Delivery of high-quality and secure, low-latency video across the public Internet. SRT optimizes streaming performance across unpredictable networks with secure streams and easy firewall traversal, bringing the best quality live video over unstable networks.

Video Format

The camera video format satisfies application for Pro AV and broadcast use

- * HDMI/SDI format up to 4K 2160p29.97, 1080i59.94, 1080p60
- * IP video format up to 2160p30, 1080p60.
- * Supports cinematic 23.98/24p pictures

Control

The camera provides multiple methods of controlling, which gives you capabilities of local control and remote control without distance limitations. * RS232, RS422/485, IP, HDBaseT, IR remote controller.

- * Protocol supported: VISCA, VISCA-Over-IP, PELCO D,
- IP Onvif, HDBaseT one cable control + video.

Flexible Installation

Installation is simplified in a wide range of environments via:

- * RJ45 RS232/422 control port provides convience of wiring.
- * PoE and POH (Power over HDBaseT) to reduce cabling requirements.
- * Standard and ceiling mount and tripot with E-Flip function.

Always Up to Date

Always up to date, Download the latest Firmware upgrade via USB and IP interface which constantly improves the camera features and performance, even for customized function upgrades.

Other Features

* Picture Profile Preset- Image parameter setting restore with presets and quick access operation.

- Genlock simplifies integration with other systems.
- * Audio output Embedded with SDI and HDMI





HDBaseT Receiver (Optional)



VCC-4K-BR Back



Product Specification

Model No.	BC-7-4K20S-S3MNB	BC-7-4K20S-S6MNB	
-	License Upgradable From FHD to 4K		
Camera	20X 4K		
mage Sensor	1/2.5" CMOS 8.5 Megapixels		
Number of effective pixels		0 1	
Picture elements		0 x 2160	
ens		n Full HD with SRZ(Super Resolution Zoom) feature	
Tele Convert Mode		e with 1080p resolution, up to 80X with SRZ	
Digital Zoom		Zoom 12X	
lorizontal Angle of View		W)~4.1°(T)	
ocal Length		e)-88.4mm(Tele)	
/lin. object distance		e), 1000mm (Tele)	
Aperture		V)~F3.8(T)	
<i>I</i> in. Illumination		n), 1.6lux (1/30s, 50%, High Sensitivity mode Off),	
	0.06lux(1/4s(1/3s),50%, High Sensitivity mode O	n), 0.21lux(1/4s(1/3s),50%, High Sensitivity mode Off)	
Shutter Speed	1/1~1/100	000s (22 steps)	
ocus	Auto Focus(Trigger/Interval), Manual Focus	(Variable Speed), One Push Trigger, Near Limit,	
Vhite Balance	AUTO, ATW, Indoor, Outdoor, One Push	WB, Manual WB, Outdoor Auto, Sodium Vapor	
	Lamp (Fix/Au	uto/Outdoor Auto)	
Exposure		iority, Iris Priority, Manual, Bright	
eatures		nsation, HLC, E-FLIP, Mirror, Day/Night	
VDR	YES	S(130dB)	
ID Filter		-	
nage Stabilizer		YES	
Color Gain		(15 step)	
Color Hue		(15 step)	
Gamma		Straight/Pattern	
Gamma Level		(15 step)	
Black Level		(97 step)	
Black Gamma		(15 step)	
Color Matrix	Off/Standard/High Saturation/FL light		
Noise Reduction		1 / Off, 6 steps), 2D/3D	
S/N Ratio	2	≥50db	
Mechanical			
Pan Movement	Horizontal:±175 degrees continuous pan ((Zoom Adaptive Speed Range: 0.05°∽100°/S)	
ilt Movement		Zoom Adaptive Speed Range: 0.05°∽50°/S)	
Preset Position		50°/S, 6 presets on remote controller.)	
Preset Speed		able, Motionless preset	
•		nage parameters, like: Backlight Compensation, White	
Preset Memory			
		, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror,	
		Color Hue, Contrast etc.)	
PTZ Trace Memory	12 (Supporte	ed via IP interface)	
PTZ Motion Sync		-	
Quietness	49db		
lome Position	Support		
Invironmental	Indoor		
	"		
nterface			
/ideo Output	3G-SDIX1, HDMI(1.4)X, IP, HDBaseT	6G-SDIX1(3G-SDI supported), HDMI(1.4)X, IP, HDBaseT	
IK Video Output	-	Main 4K HDMI 1.4a Type-A X1	
		6G-SDIX1	
		4K IP H.265/264	
JD Video Output	-	4K IP H.205/204 HDMIX1	
ID Video Output			
		S-SDIX1	
Color Precision	10bit(SDI), 8bit(HDMI), YCbCr, 4:2:2		
Color Space	YUV		
P Video Stream	Up to 4K/30 and 1080p60		
Camera Control Interface	RJ45X2-RS232/RS-422/RS485, RJ45X1-IP Control, RJ45X1-HDBaseT, IR Remote Control		
Control Protocol	VISCA, VISCA Over IP, Pelco D, IP Onvif, IP Control Client Software, NDI(Model Specific)		
AN	RJ45X1(1000Mb), 4K IP video streaming, System upgrade, POE(IEEE802.3bt)		
Synchronization	Internal synchronization		
External Sync. Input	Genlock, BNCX1, 75Ω, BBS (Black Burst Sync), tri-level sync supported		
Audio I/O	Audio input x1, Audio output x1, 3.5mm audio jack		
Audio Output			
•	Embedded with main HDMI, 24bit Stereo, Embedded with SDI, 24bit Stereo		
IDBaseT	Yes, Runs FHD/4K video, control(RS232/422/485/IR Remote), power, audio, IP(Video streamimg+control)		
	CAT6 cable u	p to 80-100meters.	
Edge Storage (Beta)	Micro SD, Class 10. F	AT32 format, Up to 128GB	
ally Light		or lamp in front	
Dip Switch		Rear Pannel Video Resolution Dip X1	
of pownen			

Product Specification

System Firmware Upgrade	Upgrade for camera system and FPGA	
Power Connector Type	Via USB2.0 (for FW upgrade only),via IP(for encoder and FPGA)	
r ower connector rype	External Power adaptor: IEC60130-10 (JEITA standard RC-5320A) TYPE4 RJ45: POE((IEEE802.3bt)) RJ45: POH((Power Over HDBaseT)	
Optional Card Slots		-
Signal System		
Video Format	1920 x 1080/59.94p/60p (HDMI, SDI) 1920 x 1080/59.94i/60i (HDMI, SDI) 1920 x 1080/50p (HDMI, SDI) 1920 x 1080/50i (HDMI, SDI) 1920 x 1080/29.97p/30p (HDMI, SDI) 1920 x 1080/25p (HDMI, SDI) 1920 x 1080/23.98p/24p (HDMI, SDI) 1280 x 720/59.94p/60p (HDMI, SDI) 1280 x 720/50p (HDMI, SDI)	3840 x 2160/29.97p (HDMI, SDI) 3840 x 2160/25p (HDMI, SDI) 3840 x 2160/23.98p (HDMI, SDI) 3840 x 2160/24p (HDMI, SDI) 1920 x 1080/59.94p/60p (HDMI, SDI) 1920 x 1080/59.94i/60i (HDMI, SDI) 1920 x 1080/50p (HDMI, SDI) 1920 x 1080/20p (HDMI, SDI) 1920 x 1080/29.97p/30p (HDMI, SDI) 1920 x 1080/25p (HDMI, SDI) 1920 x 1080/23.98p/24p (HDMI, SDI) 1280 x 720/59p (HDMI, SDI) 1280 x 720/50p (HDMI, SDI)
Standard	SMPTE 292(1.5Gb/s), SMPTE 424, SMPTE 425-A(3Gb/s), SMPTE 2081 With SMPTE352 SDI Metadata Supported	
Network		
Video Compression	MJPEG,H	.264/H.265
IP Video Format	True Dual Output : IP format can be 1920x1080p60/50/30/25/24, 1280x720p60/50	set independently of SDI video format 3840x2160p30/25/24, 1920x1080p60/50/30/25/24, 1280x720p60/50
Protocols	TCP/IP, ICMP, ARP, RTP, SIP, UDP, HTTP,	DNS, DHCP, FTP, NTP, RTMP, RTSP, SRT
Multi-stream	3 data stream function will satisfy various bandwidth, frame rates and storage requirements in real time	
Audio Compression OSD	AAC-LC Broadband Audio Encoding(Duplex Communicate Supported, Audio/Video synchronization) Customized OSD, Support custom LOGO insert	
Compatible Integration	ONVIF2.4, VISCA Over IP	
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari	
General		
Body Color	Black, White	
Mount Size of Screw Hole for Tripod	Ceiling mount, Wall mount, Tripot 1/4-20UNC x2	
Operating Temperature	-10 to +40 (°C), 32 to 104 (°F)	
Operating Humidity	≤80% Suitable for Use	
Power Input Power Consumption	12VDC, POE++(IEEE 802.3bt, Type 4, class 8 required), POH(Power Over HDBAaseT, IEEE 802.3bt) Min: 22W(Static state with no movement); Max: 38W (Fully loaded operation)	
Dimension	142x159x217mm	
Weight	2.7kg	
Body Color	Black, White	
HDBaseT Receiver	* Optional, Sold Separately	
Model No.	BL-BR4K-1	
Input Output	1XRJ45-HDBaseT 1XHDMI Type A - HDMI 1.4b, 1XRJ45- IP Pass-Thru (100Mbps,extend connection only, not IP encoder)	
Power Input	DC54V, 2.77A	
Power Output	POH(Power Over HDBaseT), Power over one CAT6 network cable	
Power Comsumption	Up to 97W	
Control Interface IR IN Control Interface	2XRJ45-RS232/ RJ45-RS422/RS485, IR Control Sensor 3.5mm 3.5-5v TTL	
Audio Output	3.5mm Jack	
Dimension	164x118x33mm	
Weight		2KG
RDER INFORMATION		
3C-7-4K20S-S3MNB/B (Blac	• BC-7-4K20S-S6MNB/B (Black) • B	C-7-4K20S-LS-4K (License for 4K upgrade)
3C-7-4K20S-S3MNB/W (Wh	ite) • BC-7-4K20S-S6MNB/W (White) • BL	-BR4K-1 (HDBaseT Receiver, sold separately)

• VCC-CC45232 (RJ45 to RS232 8 Pin Mini Din Cable Adapter)
• VCC-CC45RS (RJ45 to RS422/232 Cable Adapter)

• VCC-WM (Wall Mount) • VCC-CM (Ceiling Mount)

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