### **B2 SERIES**

B2-210

## Full HD IP and USB PTZ Camera

### KEY FEATURES



**B2-220** 

- Zoom: Optical 10X, 20X
- Video Output: HDMI, SDI, IP, USB C
- Horizontal Angel of View: 69°
- Video Resolution up to Full HD
- UVC/UAC supported for video conference use
- IP resolution up to 1080P60.
- RTSP, RTMP, SRT IP streaming
- Control: RS232, RS422/485, IP/Onvif/Visca Over IP
- Al Exposure, Al Focus
- Power: 12VDC, PoE

FHD	₩ 10/20x	Шан	O 3G-SDI	<b>USB</b> 2.0	IP		RTSP RTMP	SRT R E A D Y	A	Audio • <b>  I•  I•</b> SDI/HDMI	VISCA over IP	Onvif	PELED P/D	POE+	
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Bolin's newly created Blue-Line PTZ cameras, now offer gold-standard features at an affordable price. Part of Bolin's PTZ camera manufacturing principle is to never compromise on image quality, industrial video standards, and end user experience on PTZ control operation.

Bolin Blue-Line PTZ camera focuses on delivering essential pro features to clients looking to outfit a lightweight AV system. High quality video from Full HD to 4K 60p resolution and standard control protocols essential in ProAV, UC, and light broadcast applications.

Bolin Blue-Line PTZ camera provides simultameous HDMI/SDI video with no latency and remote IP streaming and USB video for Unified Communication conferencing applications.

Ideal for gaming activity, video-conferencing, studio, house of worship, broadcast, educational, environment, corporate training, distance learning applications.

# Bridge the Gap Between Value and Cost



- B2-210 and B2-220 is equipped with Sony senor to provide brilliant, high-quality images in 1080p60 resolutions with 10X or 20x optical zoom range.
- Compact design and USB 2.0 (C Type) video used for Huddle Space cloud based video conferencing application.
- B2-210/B2-220 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. B2-220 also provides 3G-SDI, lossless baseband video for live production and light broadcast use.



- Image parameter adjustments includes exposure, focus, iris, shutter speed, white balance, gamma, wide dynamic range, image stabilizer, 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 AI-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.
- 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.



B2-210



B2-220



### Product Specification

Model No. Camera	B2-210 10X Full HD	B2-220 20X Full HD					
Image Sensor		IOS image sensor 1/2.8 type					
Number of effective pixels	1920X1080, 2.13 MP	1920X1080, 2.13 MP					
Zoom	Optical Zoom 10X, Digital Zoom 16X	Optical Zoom 20X, Digital Zoom 16X					
Focal Length	f= 4.34 mm (Wide) to 35.17 mm (Tele)	f= 5.2 mm (Wide) to 104 mm (Tele)					
Aperture	F1.85 (Wide) to F2.63 (Tele)	F1.6 (Wide) to F3.0 (Tele)					
Horizontal Angle of View	68.8 °(W)~8.8° (T)	55.8° (W)~3.2° (T)					
Vertical Angle of View	39.5° (W)~5.1° (T)	-					
Min. object distance		n (Wide)					
Min. Illumination		, 0.1lux (black)					
Shutter Speed		000 sec (22 steps)					
Focus White Balance		al, One Push					
Exposure		or,OPW,ATW, Manual /Iris /Brightness priority					
Image Adjustment		n), Contrast, Sharpness, HUE					
Back Light Compensation	<b>0</b>	n/Off					
E-Flip		n/Off					
WDR		n/Off					
Image Stabilizer		-					
Defog		-					
Mirror	Horiz	zontal					
Day/Night		n/Off					
Contrast	Y	′es					
Color Gain	Y	/es					
Color Hue	Y	/es					
Color Matrix	Y	/es					
Black Level		-					
Gamma	Yes	s, 0-4					
High Sensitivity		Yes					
Scene		Default, Clear, Bright, Soft					
Focus Zone		Area, Central Area, Lower Area					
AI Face Detection Focus		Yes					
Al Face Auto Exposure		/es					
Noise Reduction		2D/3D, 1-255					
S/N Ratio	≥50db Editable						
OSD HDMI Signal System	Eui						
Video Format - HDMI	1920x1080n;60/59 94/50/30/29 97	7/25: 1280x720n:60/59 94/50/30/25					
Color Format		1920x1080p:60/59.94/50/30/29.97/25; 1280x720p:60/59.94/50/30/25 10bit(HDMI), YCbCr					
Color Space	YUV, RGB						
OSD Menu Display		ES					
SDI Signal System							
SDI Video Format	-	1080p:60/59.94/50/30/29.97/25; 720p:60/59.94/50/30/25					
Color Precision	-	10bit(SDI), YCbCr, 4:2:2					
Color Space	-	YUV					
Standard	-	3G-SDI, SMPTE424/SMPTE292,TE 425-A(3Gb/s) standard / 75 Ω (BNC x 1), With SMPTE352 SDI Metadata Supported					
True Dual Output	-	SDI and HDMI has same video format when HDMI outputs FHD and lower.					
OSD Menu Display		YES					
USB Signal System							
USB Port	USB2.0	0,Туре С					
Encoder	H.264/MJPEG/YUV2						
USB Video Format	1920×1080p60/50/30/25fps ,1280X720p60/50/30/25fps						
Compatible Integration		, UAC					
Video Conference	Maat video conforence	a platform in the market					
Compatibility		e platform in the market					
Network-IP Streaming							
Video Codec		C-H.264/265 by SoC					
Network Interface	•	RJ45 port-Standard 1Gbps Ethernet					
IP Video - 1st Stream	1920x1080,1280x720; Frame Rate: P60/50/30/25						
IP Video - 2nd Stream		28, 320x240, 320x180; Frame Rate P60/50/30/25					
True Dual Output	(SDI and HDMI will be the same, SDI is the sa	Video resolution and framerate: IP and HDMI can be output with different format (SDI and HDMI will be the same, SDI is the same or lower than HDMI, USB is the same as IP)					
IP Protocols		HTTP, HTTPS, DNS, DHCP, FTP, NTP					
Application Protocols		MP,RTMPS, SRT					
Multi-stream Audio Compression	· ·	ewers at the same time)					
	AAC-LC,G.711,G.726 Broadband Audio Encoding						



## **Product Specification**

Model No.	B2-210	B2-220
Camera	10X Full HD	20X Full HD
Network-IP Streaming		
Compatible Integration		G, Profile T), VISCA Over IP
OSD		ized OSD
Browser Support		Microsoft Edge, Google Chrome, Firefox, and Safari
Latency - Codec		at 1080p60
Bandwidth	2-4Mbps a	at 1080p60
	Results may vary depending on network	configuration and management settings.
Interface		
HDMI Video Output		Х1 Туре А
IP Video Stream	Up to 1	1080p60
SDI Video Output	-	3G-SDI, SMPTE424/SMPTE292,TE 425-A(3Gb/s) standard / 75 Ω (BNC x 1), With SMPTE352 SDI Metadata Supported
HDBaseT Module Fiber Optic SDI Module		<u>1</u>
Camera Control Interface	RJ45X1-RS422, RJ45X1-II	P Control, IR Remote Control
Control Protocol		Over IP, Pelco P/D
AN Port		SE-T Ethernet port)
JSB Port		),Type C
USB Protocol		, UAC
Synchronization		nchronization
Tally Light		Red and Green Color
Dip Switch		panel: 8 PIN x 2
Firmware Upgrade	Camera botton	
i i i i i i i i i i i i i i i i i i i	Liberado via IP for comor	a system MCU and Encoder
IR ID		R controller, total 3
Power Connector Type		
Power Connector Type		standard RC-5320A) TYPE4 )
Audia lassis		bE+ (IEEE802.3at)
Audio Input	MIC/LINE input, 3.5mm audio jack	USB port to 3.5mm audio jack
	ACC (Bit Rate(bps)48K*/96K	(; Sampling Rate(bps)16/24*/32
Audio Output	-	USB port to 3.5mm audio jack-
Audio Output		bit Stereo, sample rate: 44k1 to 192k, PCM24
Audio S/N Ratio		5dB
Audio THD+N		05%
Audio Noise (RMS) <b>Mechanical</b>		00dB
Pan Movement	Horizontal:±170 degrees continuous pan (Z	oom Adaptive Speed Range: 0.05°∽100°/S)
Tilt Movement	Vertical:+90 degrees to -30 degrees (Zo	oom Adaptive Speed Range: 0.05°∽50°/S)
Speed Proportional	Pan/Tilt Speed propo	ortional to zoom range
Preset Position	255 positions, Speed 150°/s, Accurac	cy: 0.05° 6 presets on remote controller
Preset Speed	0~5 Leve	I Adjustable
Preset Memory		s, like: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Reduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)
Motionless Preset	Or	n/Off
PTZ Trace Memory	Yes, 4 (Supporte	ed via IP interface)
Cruise	Ye	es,4
Adaptive PT	Zoom range adap	otive Pan/Tilt speed
Pan/Tilt Direction		ıl, Invert
Quietness	NC35	or less
Home Position	Su	oport
Environmental		door
General		
Body	Partial Mag	nesium Alloy
Mount		Vall mount, Tripod
Size of Tripod Screw Hole		with safety joint
Operating Temperature		), 32 to 130 (°F)
Operating Humidity		able for Use
Power Input		tibable with IEEE802.3at)
Power Consumption		ent); Max:13W(Fully loaded operation)
Dimension	· · · · · · · · · · · · · · · · · · ·	1mm (LxWxH)
Weight		let weight)
Body Color		White - Special Order)
Accessory		
Power Supply		sal various power core.
Remote Controller		R Controller X1
Serial Control Adaptor	RS232/RS422 adapter cable >	<1 For serial RS232/422 control

### ORDER INFORMATION

• B2-210 (10X, Black)

• B2-210W (10X, White\*)

• B2-220 (20X, Black)

• B2-220W (20X, White\*)

\* Special Order

www.bolintechnology.com

