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	USB 2.0	IP		RTSP RTMP	SRT R E A D Y	A	Audio • I• I• 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.
- Built with Bolin's latest AI-powered face analytical engine which enables precise smart focus and smart exposure to bring customer a greater level of user experience and effective image quality improvement in a complex user invironment.
- 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.
- Simply connect one network cable from camera to any 1GB Ethernet network/POE device to access to existing IP network and HDMI/SDI cable to baseband video work flow. 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.







B2-220



Model No. Camera	B2-210 10X Full HD	B2-220 20X Full HD					
age Sensor		MOS image sensor 1/2.8 type					
lumber of effective pixels	1920X1080, 2.13 MP	1920X1080, 2.13 MP					
oom	Optical Zoom 10X, Digital Zoom 16X	Optical Zoom 20X, Digital Zoom 16X					
ocal Length	f= 4.34 mm (Wide) to 35.17 mm (Tele)	f= 5.2 mm (Wide) to 104 mm (Tele)					
perture	F1.85 (Wide) to F2.63 (Tele)	F1.6 (Wide) to F3.0 (Tele)					
orizontal Angle of View	68.8 °(W)~8.8° (T)	55.8° (W)~3.2° (T)					
ertical Angle of View	39.5° (W)~5.1° (T)	-					
in. object distance	10m	m (Wide)					
lin. Illumination	0.5lux (color)	, 0.1lux (black)					
hutter Speed	1/1 sec to 1/10	0000 sec (22 steps)					
ocus	Auto, Mar	nual, One Push					
/hite Balance	Auto, Indoor, Outdoor,OPW.ATW, Manual						
xposure		er /Iris /Brightness priority					
nage Adjustment	Brightness, Color(Saturation), Contrast, Sharpness, HUE						
ack Light Compensation	On/Off						
-Flip		Dn/Off					
/DR		Dn/Off					
nage Stabilizer							
0		-					
efog		-					
irror		rizontal					
ay/Night		Dn/Off					
ontrast		Yes					
olor Gain		Yes					
olor Hue		Yes					
olor Matrix		Yes					
ack Level		-					
Samma	Ye	es, 0-4					
ligh Sensitivity		Yes					
scene	Default, Cl	ear, Bright, Soft					
ocus Zone		r Area, Central Area, Lower Area					
I Face Detection Focus		Yes					
I Face Auto Exposure		Yes					
loise Reduction		BD, 1-255					
/N Ratio		250db					
DSD		ditable					
	E	ditable					
IDMI Signal System							
ídeo Format - HDMI	•	97/25; 1280x720p:60/59.94/50/30/25					
color Format		DMI), YCbCr					
Color Space		V, RGB					
OSD Menu Display		YES					
DI Signal System							
DI Video Format	_	1080p:60/59.94/50/30/29.97/25; 720p:60/59.94/50/30/25					
DI VIGEO I OTTIAL	-	10000.00/39.94/30/30/29.97/23, 7200.00/39.94/30/30/23					
Color Precision	-	10bit(SDI), YCbCr, 4:2:2					
olor Space	-	YUV					
Standard	-	3G-SDI, SMPTE424/SMPTE292,TE 425-A(3Gb/s) standard / 75 Ω					
		(BNC x 1), With SMPTE352 SDI Metadata Supported					
		SDI and HDMI has same video format when HDMI outputs FHD and					
rue Dual Output	-	lower.					
		YES					
SD Menu Display	-	TES					
ISB Signal System							
SB Port	USB2.0, Type C						
ncoder	H.264/MJPEG/YUV2						
SB Video Format	1920×1080p60/50/30/25fps ,1280X720p60/50/30/25fps						
ompatible Integration	UVC, UAC						
ideo Conference							
ompatibility	Most video conference platform in the market						
etwork-IP Streaming							
ideo Codec	MJPEG. AVC/HF	VC-H.264/265 by SoC					
etwork Interface		•					
P Video - 1st Stream	RJ45 port-Standard 1Gbps Ethernet 1920x1080 1280x720: Frame Rate: P60/50/30/25						
P Video - 2nd Stream	1920x1080,1280x720; Frame Rate: P60/50/30/25 704x576, 640x480, 640x360, 576x480, 352x228, 320x240, 320x180; Frame Rate P60/50/30/25						
rue Dual Output		d HDMI can be output with different format					
p ===	·	ame or lower than HDMI, USB is the same as IP)					
P Protocols	TCP/IP, ICMP, ARP, RTP, SIP, UDP,	HTTP, HTTPS, DNS, DHCP, FTP, NTP					
pplication Protocols		TMP,RTMPS, SRT					
lulti-stream	2 Streams (Up to 20 viewers at the same time) AAC-LC,G.711,G.726 Broadband Audio Encoding						
	• •	Broadband Audio Encoding					
ulti-stream udio Compression	• •	Broadband Audio Encoding					

Product Specification

Model No.	B2-210	B2-220/B7-220/B6-220
Camera	10X Full HD	20X Full HD
Network-IP Streaming		
Compatible Integration	ONVIF2.4 (Profile S, Profile	G, Profile T), VISCA Over IP
OSD	Customi	zed OSD
Browser Support	Cross Browser Compatibility - HTML5 support for N	licrosoft Edge, Google Chrome, Firefox, and Safari
Latency - Codec	<150ms a	t 1080p60
Bandwidth	2-4Mbps a	it 1080p60
		configuration and management settings.
Interface		sonnigaration and management countiger
HDMI Video Output	HDMI 1 4	Х1 Туре А
IP Video Stream		080p60
IF VIGEO Stream		
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		
Camera Control Interface	R.I45X1-RS422 R.I45X1-IF	P Control, IR Remote Control
Control Protocol	•	ver IP, Pelco P/D
-		
LAN Port	Υ. Υ	SE-T Ethernet port)
USB Port		,Туре С
USB Protocol		UAC
Synchronization	Internal syn	chronization
Tally Light	Tally lamp in front, R	Red and Green Color
Dip Switch	Camera bottom	panel: 8 PIN x 2
Firmware Upgrade	HEVC IP stream sys	stem upgrade via IP
	Upgrade via IP for camera	system MCU and Encoder
IR ID		controller, total 3
Power Connector Type	DC12V (IEC60130-10 (JEITA s	
r ower connector rype	, , ,	E+ (IEEE802.3at)
And a lowest		
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	Embedded with HDMI/SDI/IP streaming, 24b	it Stereo, sample rate: 44k1 to 192k, PCM24
Audio S/N Ratio	≥85	ōdB
Audio THD+N	≤0.0	05%
Audio Noise (RMS)	≤-9	0dB
Mechanical		
Pan Movement	Horizontal:±170 degrees continuous pan (Zo	oom Adaptive Speed Range: 0.05°∽100°/S)
Tilt Movement		om Adaptive Speed Range: 0.05° ∽50°/S)
Speed Proportional		rtional to zoom range
Preset Position		y: 0.05° 6 presets on remote controller
Preset Speed		Adjustable
Preset Memory		like: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto
-		eduction, Mirror, Gamma, Ex-COMP, Color Hue, Contrast etc.)
Motionless Preset		/Off
PTZ Trace Memory	Yes, 4 (Supported	d via IP interface)
Cruise	Ye	s,4
Adaptive PT	Zoom range adapt	tive Pan/Tilt speed
Pan/Tilt Direction	Normal	l, Invert
Quietness		or less
Home Position	Sup	port
Environmental		oor
General		
Body	Partial Mag	nesium Alloy
Mount		/all mount, Tripod
Size of Tripod Screw Hole	0 ,	vith safety joint
Operating Temperature		, 32 to 130 (°F)
Operating Humidity		able for Use
Power Input		bable with IEEE802.3at)
Power Consumption		ent); Max:13W(Fully loaded operation)
Dimension	143x143x161	1mm (LxWxH)
Weight	1.5kg (Ne	et weight)
Body Color	Black	White
Accessory		
Power Supply	12VDC 4A X1 University	al various power core.
Remote Controller	,	R Controller X1
Serial Control Adaptor		1 For serial RS232/422 control
Insert Video Card (Optional)	•	
Insert Video Card (Optional)		-
(Ontional)		-

ORDER INFORMATION

• B2-210 (10X, Black)

• B2-210W (10X, White)

• B2-220 (20X, Black)

• B2-220W (20X, White)

