B6-420





- Zoom: Optical 20X
- Video Output: HDMI, IP, USB C
- Horizontal Angel of View: 79°
- Video Resolution up to 4K60
- UVC/UAC supported for video conference use
- IP resolution up to 4K60.
- RTSP, RTMP, SRT IP streaming
- Control: RS232, RS422/485, IP/Onvif/Visca Over IP
- Al Exposure, Al Focus
- Power: 12VDC, PoE































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



FUNCTIONALITY

- B6-420 is equipped with Sony senor to provide brilliant, high-quality images in 4K60 resolutions with 20x optical zoom range.
- Compact design and USB 2.0 (C Type) video used for Huddle Space cloud based video conferencing application.
- B6-420 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.



- 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 Al-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.
 Control protocal supports: Serial RS232/RS422/RS485, IP/Onvif/Visca-Over-IP, UVC, IR Remote.
- 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.



B6-420



Product Specification

Model No.	B6-420
Camera	20X 4K60
Image Sensor	Sony Progressive scan CMOS image sensor 1/2.8 type
Number of effective pixels	3840x2160, 8.29MP
•	
Zoom	Optical Zoom 20X, Digital Zoom 16X
Focal Length	f= 3.55 mm (WIDE) to 63.58 mm (TELE)
Aperture	F1.8 (Wide) to F3.58 (Tele)
Horizontal Angle of View	78.59° (W)~4.92° (T)
Vertical Angle of View	48.71° (W)~2.81° (T)
Min. object distance	10mm (Wide)
Min. Illumination	0.5lux (color) , 0.1lux (black)
Shutter Speed	1/1 sec to 1/10000 sec (22 steps)
Focus	Auto, Manual, One Push
White Balance	Auto, Indoor, Outdoor, OPW, ATW, Manual
Exposure	Auto, Manual, Shutter /Iris /Brightness priority
Image Adjustment	Brightness, Color(Saturation), Contrast, Sharpness, HUE
Back Light Compensation	On/Off
E-Flip	On/Off
WDR	On/Off
Image Stabilizer	Yes
Defog Mirror	Yes Horizontal
Mirror	Horizontal On/Off
Day/Night Contrast	On/Off Yes
Color Gain	Yes
Color Hue	Yes
Color Matrix	Yes
Black Level	-
Gamma	Yes, 0-4
High Sensitivity	Yes
Scene	Default, Clear, Bright, Soft
Focus Zone	Face Priority, All Area, Upper Area, Central Area, Lower Area
Al Face Detection Focus	Yes
Al Face Auto Exposure	Yes
Noise Reduction	2D/3D, 1-255
S/N Ratio	≥50db
OSD	Editable
HDMI Signal System	
Video Format - HDMI	4KP-2160p:60/59.94/50/30/29.97/25; 1080p:60/59.94/50/30/29.97/25; 1080i:60/59.94/50; 720p:60/59.94/50/30/25
Color Format	10bit(HDMI), YCbCr
Color Space	YUV, RGB
OSD Menu Display	YES
USB Signal System	
USB Port	USB2.0,Type C
Encoder	H.264/MJPEG/YUV2
USB Video Format	H.264/MJPEG:(3840x2160, 1920×1080,1280X720,800x600,704x576,640X480,320X240) 50/60/25/30fps YUV2: 3840X2160 15fps (1920X1080,1280X720,800x600,704x576,640x480,320X240) 50/60/25/30fps
Compatible Integration	UVC, UAC
Video Conference	
Compatibility	Most video conference platform in the market
Network-IP Streaming	
Video Codec	MJPEG, AVC/HEVC-H.264/265 by SoC
Network Interface	RJ45 port-Standard 1Gbps Ethernet
	3840x2160,1920x1080,1280x720; Frame Rate: P60/50/30/25
IP Video - 1st Stream	
	704x576, 640x480, 640x360, 576x480, 352x228, 320x240, 320x180; Frame Rate P60/50/30/25
IP Video - 1st Stream IP Video - 2nd Stream True Dual Output	704x576, 640x480, 640x360, 576x480, 352x228, 320x240, 320x180; Frame Rate P60/50/30/25 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 Video - 2nd Stream True Dual Output	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 Video - 2nd Stream True Dual Output IP Protocols	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) TCP/IP, ICMP, ARP, RTP, SIP, UDP, HTTP, HTTPS, DNS, DHCP, FTP, NTP
	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)



Product Specification

Model No.	B6-420
Camera	20X 4K60
Network-IP Streaming	
Compatible Integration	ONVIF2.4 (Profile S, Profile G, Profile T), VISCA Over IP
OSD	Customized OSD
Browser Support	Cross Browser Compatibility - HTML5 support for Microsoft Edge, Google Chrome, Firefox, and Safari
Latency - Codec	<180ms at 4K60
Bandwidth	4-8Mbps at 4K60
	Results may vary depending on network configuration and management settings.
Interface	
HDMI Video Output	HDMI 2.0X1 Type A
IP Video Stream	Up to 4K60
Camera Control Interface	RJ45X1-RS422, RJ45X1-IP Control, IR Remote Control
Control Protocol	VISCA. VISCA Over IP, Pelco P/D
LAN Port	RJ45X1 (1000BASE-T Ethernet port)
USB Port	USB3.0,Type C
USB Protocol	UVC, UAC
Synchronization	Internal synchronization
Tally Light	Tally lamp in front, Red and Green Color
Dip Switch	Camera bottom panel: 8 PIN x 2
Firmware Upgrade	HEVC IP stream system upgrade via IP
	Upgrade via IP for camera system MCU and Encoder
IR ID	ID selector for IR controller, total 3
Power Connector Type	DC12V (IEC60130-10 (JEITA standard RC-5320A) TYPE4)
	INPUT: RJ45, PoE+ (IEEE802.3at)
Audio Input	Line in input, 3.5mm audio jack*
	ACC (Bit Rate(bps)48K*/96K; Sampling Rate(bps)16/24*/32
Audio Output	Line in input, 3.5mm audio jack*
Audio Output	Embedded with HDMI/SDI/IP streaming, 24bit Stereo, sample rate: 44k1 to 192k, PCM24
Audio S/N Ratio	≥85dB
Audio THD+N	≤0.05%
Audio Noise (RMS)	≤-90dB
Mechanical	
Pan Movement	Horizontal:±170 degrees continuous pan (Zoom Adaptive Speed Range: 0.05°∽100°/S)
Tilt Movement	Vertical:+90 degrees to -30 degrees (Zoom Adaptive Speed Range: 0.05°∽50°/S)
Speed Proportional	Pan/Tilt Speed proportional to zoom range
Preset Position	255 positions, Speed 150°/s, Accuracy: 0.05° 6 presets on remote controller
Preset Speed	0~5 Level Adjustable
Preset Memory	YES, (Picture Profile Preset-Preset Memory for image parameters, like: Backlight Compensation, White Balance, R-Gain/B-Gain, Auto Exposure, Bright, Iris, Shutter, Gain, Aperture, Effect, Noise Reduction, Mirror, Gamma, Ex-COMP,
Motionless Preset	On/Off
PTZ Trace Memory	Yes, 4 (Supported via IP interface)
Cruise	Yes,4
Adaptive PT	Zoom range adaptive Pan/Tilt speed
Pan/Tilt Direction	Normal, Invert
Quietness	NC35 or less
Home Position	Support
Environmental	Indoor
General	Allower Allow
Body	Aluminum Alloy
Mount	Ceiling mount, Wall mount, Tripod
Size of Tripod Screw Hole Operating Temperature	1/4"-20UNC with safety joint -10 to +50 (°C), 32 to 130 (°F)
Operating Humidity	≤80% Suitable for Use
Power Input	DC±12V, PoE+(Compatibable with IEEE802.3at)
Power Consumption	Min:13W(Static state with no movement); Max:18W(Fully loaded operation)
Dimension	280*159*173mm (LxWxH)
Weight	28g (Net weight)
Body Color	Dark Grey
Accessory	Dan Gley
Power Supply	12VDC 4A X1, Universal various power core.
Remote Controller	Full Function IR Controller X1
Serial Control Adaptor	RS232/RS422 adapter cable x1 For serial RS232/422 control
Conai Control Adaptor	10232/10422 adapter cable X1 For Serial 10232/422 control

ORDER INFORMATION

• B6-420 (20X, 4K60, HDMI2.0+USB)

