

B6-420 Indoor PTZ Camera User Guide



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Important Information

Thank you for purchasing our product. If there are any questions, please contact the authorized dealer. Before operating the unit, please read this manual thoroughly and retain it for future reference.

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Attention:

To ensure account security, the user should change the password after their first login. The user is recommended to set a strong password (no less than eight characters). Password login does not apply to certain models that do not need password login.

The contents of this document are subject to change without prior notice. Updates will be added to the new version of this manual. Improvements or updates to the products or procedures described in the manual will be made readily.

The best effort has been made to verify the integrity and correctness of the contents in this document, but no statement, information, or recommendation in this manual shall constitute a formal guarantee of any kind, expressed or implied. Responsibility for any technical or typographical errors in this manual will not be held. The product appearance shown in this manual is for reference only and may be different from the actual appearance of the user's device.

This manual is a guide for multiple product models and so it is not intended for any specific product. In this manual, the illustrations of the displayed interface, parameters displayed, drawings, and value ranges may vary with models. The user should refer to the actual product for details.

Due to uncertainties such as the physical environment, discrepancies may exist between the actual values and reference values provided in this manual.

Use of this document and the subsequent results shall be entirely on the user's own responsibility. Before operating the unit, the user should read this manual thoroughly and retain it for future reference. **Symbols**

Symbol	Description
	WARNING Contains important safety instructions and indicates situations that may cause bodily injury.
i	CAUTION Users must be careful. Improper operations may cause damage or malfunction of product.
	NOTE Indicates useful or supplemental information about the use of the product.

Safety Information

WARNING:

Installation and removal of the unit and its accessories must be carried out by qualified personnel. You must read all of the Safety Instructions supplied with your equipment before installation and operation.

• If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera yourself. (We will not assume any responsibility for problems caused by unauthorized repair or maintenance.)

- This installation should be made by a qualified service person and should conform to all the local codes.
- When shipping, the camera should be packed in its original packaging.
- Make sure the power supply voltage is correct before using the camera.
- Do not drop the camera or subject it to physical shock.

• Do not touch sensor modules with fingers. If cleaning is necessary, use a clean cloth with a bit of ethanol and wipe it gently. If the camera will not be used for an extended period of time, put on the lens cap to protect the sensor from dirt.

• Do not aim the camera lens at the strong light such as sun or incandescent lamp. The strong light can cause fatal damage to the camera.

Maintenance Precautions:

• If there is dust on the front glass surface, remove the dust gently using an oil-free brush or a rubber dust blowing ball.

If there is grease or a dust stain on the front glass surface, clean the glass surface gently from the center outward using anti-static gloves or an oil-free cloth. If the grease or the stain still cannot be removed, use anti-static gloves or an oil-free cloth dipped with detergent and clean the glass surface gently until it is removed.
Do not use organic solvents, such as benzene or ethanol, when cleaning the front glass surface.

Regulatory Compliance

FCC Part 15

This equipment has been tested and found to comply with the limits for digital devices, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference, in which case the user will be required to correct the interference at his own expense.

This product complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: This device may not cause harmful interference.

This device must accept any interference received, including interference that may cause undesired operation.



 IR Remote Controller (VCC-RC-2)

 IR Remote Controller (VCC-RC-2)

 Image: Controller (VCC-CC45RS)

No	12V DC Power Supply with International Plugs (P12-2)
	Lens Cap
, 8 , , ,	HDMI Cable Support with Screws
Ç ₽	Safety Cable
	Optional Accessories
	Small PTZ Wall Mount Bracket - Available in Black or White (C-WM1B or C-WM1W)
	PTZ Camera Pendant Mount System for Drop Ceiling - Black or White (C-PMSB or C-PMSW)

Camera Ceiling Mount Bracket - Available in Black or White (VCC-CM or VCC-CM/W)

Recommended Peripherals



Overview

The B6-420 is a compact PTZ, high-performance camera equipped with a Sony sensor for delivering brilliant 4K60 resolution images. It features a 20x optical zoom, advanced image parameter adjustments, and supports multiple video streaming methods including HDMI, USB, and IP. Enhanced with Bolin's AI-powered facial analytics engine, it provides precise focusing and improved auto exposure, ensuring optimal performance even in complex lighting environments. The camera also supports high-quality audio streaming and offers smooth and quiet operation for Pan/Tilt movements. Firmware updates can be easily done via the IP interface, keeping the camera's features and performance up-to-date.

Features

- 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

Camera Diagrams and Dimensions



- 9 HDMI 2.0
- **10** HDMI cable secure mount screw holes

NOTE: All dimensions listed below are in millimeters.

0



Quick Start Guide The B6-420 Indoor PTZ Camera has multiple connection options for video output, power input, control input, audio input and output, and synchronization. You can choose the appropriate connection points based on your requirements.

Power



- Use only the 12V DC power adapter (JEITA type4) provided with the unit. (Do not use any other DC power adapter.)
- POE+ (IEEE802.3at) is supported for powering the camera.

NOTE: Verify that the POE+ power source is sufficient for the camera's full operation. The camera will auto-pan, tilt, and scan upon DC power connection.

Network

This camera offers a variety of functionalities via a network connection. Besides being powered over Ethernet, a network connection enables the user to adjust camera settings remotely, stream video from the camera to a distant location, and control the PTZ camera functions via the Web Interface. To connect the camera to the network, the user should adhere to the following steps:

- 1. Acquire a standard Category (CAT) 6 cable and insert one end of the cable into the camera. Connect the other end to a network switch.
- 2. Power on the camera.
- To retrieve the IP address of the camera, the user should open the OSD Menu and navigate to the Status section. Alternatively, the user can download Bolin's IPC search tool from the website (www.bolintechnology.com) onto a Windows computer and execute the tool to locate the camera on the network.
- 4. The user should ensure that their camera and computer are on the same subnet of the network to gain access to the Web Interface.

NOTE: Factory-Default Camera Network Settings: Static IP Address: 192.168.0.13 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1

Video Output

The B6 has multiple video outputs, which can be used simultaneously, and the resolutions can be configured independently. The outputs vary based on the camera model and are as follows:

HDMI Out (HDMI 1.4)

The user should follow these steps to connect the camera:

- 1. Connect one end of an HDMI cable that supports the required resolution to the HDMI Output of the camera. Connect the other end of the HDMI cable to the desired destination (Switcher, Converter, Display, etc.).
- 2. Power on the camera and wait for it to initialize. Once initialized, video will appear on the screen. For the first five seconds, the camera's initial settings will be displayed.
- 3. The user can utilize the OSD (On-Screen Display) Menu or Web Interface to set the desired output resolution and frame rate. For more information on how to configure these settings, please refer to the Web Interface Configuration and System Menu section of this guide.

NOTE: It is recommended for the user to utilize a certified "Premium High Speed HDMI" cable to guarantee the attainment of the maximum signal quality from their camera.

HDMI Standard Classifications

HDMI Standard	Bandwidth	Max Resolution Supported
HDMI 1.4	10.2 Gigabit/Second	1080p, 120 Hz 4K, 30 Hz
HDMI 2.0	18.0 Gigabit/Second	4K, 60 Hz
HDMI 2.1	48.0 Gigabit/Second	8K, 120 Hz

IP Stream Out

The IP stream(s) can be enabled and configured from the Web Interface of the camera. The camera must be connected to a Local Area Network (LAN) using a CAT6 cable through either a switch or direct connection to a computer in order to access the web interface. Streaming from the camera requires internet (WAN) access. The following steps should be followed:

- 1. Connect the camera to the network by inserting one end of a CAT6 cable into the 10/100/1000 LAN port of the camera and the other end either into a switch or directly into a computer.
- Open an HTML5-enabled web browser on a computer and enter the IP address of the camera. By default, the camera is set to 192.168.0.13. The IP address can also be located under the "Status" menu of the camera's On-Screen Display (OSD) or by using Bolin Technology's IPC Search Tool in the Download Center.
- 3. Select "AV Setup" from the menu on the left-side of the Web Interface. From here, enable and configure the IP streams as needed. For more details, refer to the "Web Interface Configuration" section of this user guide.

Control Input

The B6 PTZ cameras have multiple ways of being controlled that can be used simultaneously to provide the user with the flexibility they need for their setup. The control methods are as follows :

Infrared (IR) Remote Controller

The IR remote included with the device is capable of controlling up to 3 unique IR channels. IR channels can be set with the toggle switch on the back of the camera or through the Web Interface.

The remote is designed to function optimally from short distances and requires a line-of-sight with the camera. The I/O panel of the camera incorporates an IR receiver to accept commands from the remote. To use the IR Controller, the following steps are recommended:

- Before powering on the camera, the desired IR channel should be selected using the IR Channel Selector located on the back of the camera. Channels 1-3 are available for selection. If multiple cameras are in use, it is advisable to assign different IR channels to cameras that are in close proximity to each other to prevent unintended changes.
- 2. Once the channel has been selected, the camera should be powered on.
- 3. On the IR remote, the "Camera IR ID" that corresponds with the selected channel on the camera should be chosen. The remote is now ready to be used to configure or control the camera.

NOTE: When you're using the IR Remote, make sure to either power off any nearby cameras or set them to a different IR ID. If there are cameras within range that are set to the same IR ID, their settings might be altered.

Functions of the IR Controller:



- 1. Menu On-Screen Display (OSD) Toggle
- 2. IR ID Selector Select which IR Channel (Camera) to be controlled
- 3. Al Function Buttons Disabled
- 4. **Buttons 1-9** Used to set & recall corresponding presets. (See #6 to set a preset and #16 to erase a preset)
- 5. **+ & Buttons** Used in conjunction with image adjustment buttons (11) to increase or decrease parameters.
- 6. **Preset** To save a preset, hold down the "Preset" button and the preset number you would like to assign it to.
- 7. Slow Zoom Zoom's the camera in or out in a slow speed.
- 8. Auto Framing Disabled

- 9. **Direction Arrows** Pan and Tilt the camera in the corresponding direction. Navigate the OSD Menu when open.
- 10. Focus Adjustments Use the "Auto" button to enable auto-focus. To make manual focus adjustments, press the "Manual" button first, followed by the "Far" or "Near" buttons to adjust.
- 11. **Image Adjustments** Select the property you would like to adjust, followed by the + and buttons (5) to make the appropriate adjustment, unless otherwise noted below. The selected function and corresponding options will glow when selected.
 - Gain Image gain settings
 - Color Color saturation settings
 - Black.L Image black level settings
 - WB.R White Balance, Red settings
 - PT.S Pan/Tilt speed settings
 - Zoom.S Zoom speed settings
 - Preset.S Preset speed settings
 - WB.B White Balance, Blue settings
 - WDR Wide Dynamic Range Settings
 - Freeze Freeze the video on the current frame. (Doesn't use + and buttons)
 - B.Light Back light compensation
 - **OPW** One Push White Balance (Hold the button down while pointing the camera at a gray card to set white balance.)
- 12. **Resolution** Used to change the video format/resolution. Press and hold the Fn button (15) and Resolution button to select the desired format. The image block will restart after the format is changed, and the screen will go black for a few seconds.
- 13. Al Button Disabled
- 14. Power Press and hold for three seconds to turn the camera on/off.
- 15. **Fn Button** Press and hold in conjunction with other buttons in dark brown text (Stabilizer, Mute, Scan, etc...) to adjust parameters.

RS-422 Serial Commands (VISCA)

The camera is equipped with an RS-422 port, which facilitates VISCA control over serial commands. This RS-422 port is also compatible with RS-485. The camera can be connected via a serial connection to a PTZ controller or a computer. This allows for the execution of pan, tilt, and zoom operations, as well as the performance of preset recalls.

CAUTION: When one connects the camera via serial to a Sony PTZ controller, it differs from the process with a non-Sony PTZ controller. It is crucial to verify the pin settings for the specific controller in use.

1. The camera should be powered on, and the OSD menu should be opened or the Web Interface should be logged into using any web browser. Proceed to the system settings and adjust the baud rate to match

that of the controller. The VISCA ID should be set to a number between 1 and 7.

2. A standard terminated CAT5 or CAT6 cable can be used to directly connect the camera to the controller. Alternatively, the included RJ45 to RS422 Control Cable Adapter can be used to connect unterminated CAT5/CAT6 cables between the camera and controller. The pin connection diagrams provided below should be followed, taking into account the specific controller in use and the desired connection.



1						
	1	RX-	Orange/White			
	2	RX+	Orange			
	3	GND	Green/White			
	4	-	Blue			
	5	-	Blue/White			
	6	-	Green			
	7	TX-	Brown/White			
	8	TX+	Brown			

NOTE: Please refer to the KBD-1010-RNV user guide for instructions on how to establish an RS422 connection with the controller.

Use RS-422 (VISCA) / RS485 (PELCO P/D)

For camera operations, the RS-422/485 port can be utilized to connect controllers, such as a joystick keyboard or a PC station. This allows for the effortless management of pan, tilt, and zoom functions, as well as access to all preset functions using the controller's buttons.

To operate a PC station, it is essential to have a software application that is compatible with this unit.



SONY Keyboard RS422 Connection

Guide for Establishing RS422 Connection and Daisy Chain Configuration for Multiple Cameras with a SONY Controller.







Sony Keyboard Connection

VISCA (Non-Sony) Keyboard RS422 Connection

Guide for Establishing RS422 Connection and Daisy Chain Configuration for Multiple Cameras with a Non-Sony Controller:



The included extension cables, along with the RJ45 to RS422 Phoenix connector adapter, should be utilized to establish an RS422 connection for the control device.



NOTE: Please refer to the KBD-1010-RNV user guide for instructions on how to establish an RS422 connection with the controller.

Guide to creating an RS422 Daisy Chain Connection for Multiple Cameras with an RS422 Standard Serial Port Controller.



PELCO P/D Keyboard RS485 Connection

Important: Utilize RS422 ports when establishing an RS485 connection. Only employ TX+ and TX- for RS485 connections.

- Set the RS422 control method using the OSD menu or Web interface.
- Set the camera ID on the OSD menu using the remote controller.
- To ensure the settings have been applied, restart the camera by switching it off and then back on.
- Use a PELCO P/D compatible keyboard for seamless integration.
- Utilize preset # 95 on the keyboard to access/exit the camera OSD menu.
- Navigate the OSD menu using the joystick and buttons "OPEN" or "CLOSE."
- For the keyboard operation details, refer to the user manual of the specific keyboard in use.

PELCO RS485 Connection



Utilize extension cables that come with an RJ45 to RS422 Phoenix connector adapter to establish an RS485 connection for your control device.



NOTE: Please refer to the KBD-1010-RNV user guide for instructions on how to establish an RS422 connection with the controller. The extension cables that are provided, along with the RJ45 to RS422 Phoenix connector adapter, should be utilized to establish an RS422 connection for the control device.



ſ	1	RX-	Orange/White
ł	ว		Orango
ļ	Z	КА+	Orange
	3	GND	Green/White
	4	-	Blue
	5	-	Blue/White
	6	-	Green
	7	TX-	Brown/White
	8	TX+	Brown

NOTE: Please refer to the KBD-1010-RNV user guide for instructions on how to establish an RS422 connection with the controller.

Alternatively, you can establish an RS485 connection by directly connecting the camera and the controller using a CAT5/6 T-568B Standard Ethernet cable.



VISCA over IP

Using VISCA over IP allows users to control the camera from anywhere that is on the same LAN as the camera. It involves connecting the PTZ camera to a network switch. The steps are as follows:

- 1. Connect the camera to the network by inserting one end of a CAT6 cable into the 10/100/1000 LAN port of the camera and the other end into a network switch.
- 2. Configure the camera's IP address and related network settings to properly communicate with your network and PTZ Controller.
- 3. Connect a PTZ Controller that supports VISCA over IP to the network with a CAT6 cable.
- 4. Configure the controller's IP address and related network settings to properly communicate with your network and PTZ camera. Then enter the camera's IP address and VISCA over IP port settings into the controller to access the camera.



Gateway: 192.168.0.1 VISCA over IP Control Port: 52381

To change these settings, refer to the Web Interface Configuration section of this guide.

NOTE: The VISCA over IP port of the controller MUST be set to 52381 to communicate with and control the camera.

ONVIF Protocol

Can be easily integrated with other ONVIF compliant devices and systems. This allows for greater flexibility and ease of use, especially with setups that involve multiple devices and systems. ONVIF 2.4 (Profile S) ONVIF Port: 2000

Audio Input

HDMI/SDI/USB and IP video streaming signal has high-quality audio streaming embedded with support for Mic-in and Line-in audio input.



The B6-420 model is designed with a 3.5 mm MIC/LINE audio input jack on its rear panel. This allows for a direct connection of a microphone or an audio source to the camera for audio input. The IR remote control can be used to navigate to the 'SYSTEM' menu on the OSD. From this menu, the audio can be turned ON or OFF and the input type can be selected as either MIC (for microphone) or LINE (for other audio sources). **Tally Light**

Tally Light GPI I/O connection

The camera is equipped with two tally lights, serving as visual indicators. When illuminated, these lights signal that the camera is actively operational. One front Tally light improves visibility, and an additional tally light positioned behind the camera block improves rear visibility. To activate the camera's Tally Light function, you need a video switch and a keyboard (not included).

GPI connection with RS422 VISCA control connection

Cable Configuration:

 Set up a standardized RS-422 daisy chain control connection to seamlessly control multiple cameras from the keyboard controller. (For detailed RS422 control information, refer to the Keyboard Controller user guide.)
 Established a Tally/Contact Function cable connection between the Keyboard Controller and the Video Switcher (Sony).



1. On the keyboard side, connect pins 1-8. On the Video Switch side, connect pins 1-9, excluding pin 8.

2. Link keyboard pin 8 with video switch pin 9.

3. Connect keyboard pin 1 to video, switch pin 1, pin 2 to pin 2, and continue similarly (you can decide the rest based on the pattern), ensuring pin 7 is connected to pin 7.

Set Up

1. GPI I/O Input Mode for Tally Signal from Video Switch:

a. Connect the camera to the keyboard using a standard RS-422 control cable.

b. Establish a connection between the keyboard and the video switch using a tally function cable.

c. Navigate to KEYBOARD SETTING > GPI I/O > Setting, and switch it to Input mode. Exit to the home directory.

d. After completing the above steps, you can switch between cameras using the video switch. For instance, selecting camera 1 on the video switch sends a tally signal to the keyboard via the tally function cable. The keyboard then transmits this tally signal to camera 1 through the standard RS-422 control cable, activating camera 1's tally light. The keyboard can now control camera 1's pan and zoom.

e. If you switch to camera 2 on the video switch, the tally light for camera 2 will turn on, and the tally light for camera 1 will turn off.



2. GPI I/O Output Mode for Tally Signal Sent by Keyboard Controller:

- a. Connect the camera to the keyboard using a standard RS-422 control cable.
- b. Navigate to KEYBOARD SETTING > GPI I/O > Setting, and switch it to Output mode. Exit directly to the home menu.
- c. After completing the above operation, you can switch between different cameras using the keyboard.
 For instance, selecting camera 1 on the keyboard sends a tally signal to camera 1 via the standard RS-422 control cable. As a result, camera 1's tally light turns on, and the keyboard gains control over camera 1's pan and zoom.
- d. If you switch to camera 2 on the keyboard, the tally light for camera 2 will turn on, and the tally light for camera 1 will turn off.



Web Interface Configuration

Once connected to the network, the camera can be configured and controlled through the web interface on any web browser that supports HTML5. This next section will explain the various sections of the web interface and what they can do.

WEB INTERFACE LOGIN

To log in to the web interface, first, make sure that the camera is connected to the network and that your computer is on the same subnet as the camera.



Factory-Default Camera Network Settings: Static IP Address: 192.168.0.13 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1

NOTE: To obtain the IP address of the camera, open the OSD Menu and scroll down to the Status section. Alternatively, download Bolin's IPC search tool from the website (www.bolintechnology.com) onto a Windows computer and run the tool to discover the camera on the network.

- 1. Once the camera's IP address has been obtained, the user should enter it into the web browser on their computer.
- The user will be prompted to enter a username and password. By default, the credentials are: Username: admin Password: admin

NOTE: The first time you log in to the web interface, you will be prompted to set a new password. For best security practices, enter a password that is at least 8 digits long, and contains one capital letter, one lowercase letter, one number, and one symbol.

3. Once the user enters the credentials, they should press the login button.

NOTE: Forgot Your Password? If the user forgets/loses the password to their camera, our support team can help them recover it. The user must first download the IPCSearch tool from our website (www.bolintechnology.com) onto a Windows computer that is on the same subnet as the camera. Then, run the tool to search for their camera. Select the camera that they wish to recover and click the "Forgot Password" button at the bottom of the window.

The program will provide the user with a generated key. Email "support@bolintechnology.com" with the key. Our support team will generate and provide the user with a temporary password that is valid for only 24 hours. The user should enter this temporary password to create a new password within 24 hours of receiving the key, otherwise, they will need to follow this procedure again. The user should not turn their camera off while waiting to receive the temporary password, otherwise, the temporary password associated with the key will become invalid.

LIVE VIEW

Once the user logs in to the camera, they will be taken to the Live View page. From the "Live View" page, the user will be able to:

- See a preview of the video output (NOTE: This feed will be delayed by 1-2 seconds.)
- Adjust and control PTZ functions
- Set and recall camera presets



Adjusting and Controlling PTZ Functions

On the "Live View" page, the user will observe a "Menu" icon situated at the bottom right of the live view image. Additionally, on the right side of the page, there are "Pan/Tilt Controls". This section comprises a set of arrows and sliders, specifically designed to control the camera.

The arrows are utilized to pan (move side to side) and tilt (move up and down) the camera. The focus and zoom buttons are provided for the user to adjust the view. The user can zoom in (+) or out (-), and manually adjust the focus to be closer (+) or further (-).

Furthermore, there are speed-setting sliders that permit the user to alter the speed of the camera's movements, including pan, tilt, focus, and zoom. This allows the user to customize the camera's operations to suit their needs.

Within the PTZ Setting drop-down menu, the user will discover the following options:

- 1. **Auto-Scanning**: The camera image pans automatically from left to right or right to left at a speed defined by the user (Speeds 1-8).
- 2. **Preset**: The user can set and recall up to 64 camera presets (The camera supports saving a total of 255 presets). These presets can be recalled through the web interface, IR Remote, or PTZ Controller.
- 3. **Tracking**: The camera will record a series of presets that are recalled in a specified order.
- 4. **Scanning**: The camera image pans from left to right or right to left between up to 12 points defined by the user at a speed also defined by the user (Speeds 1-8).
- 5. **Power On Action**: Users can define a set of actions that a camera performs (preset recall, scan, trace, or cruise) once powered on.
- 6. **Cruise**: The camera will record a series of movements that an operator makes, which can then be recalled whenever a user prefers.

Creating and Recalling Presets

To save presets, the user should adhere to the following steps:

- 1. Utilize the PTZ controls of the web interface, IR controller, or a PTZ controller to adjust the camera to the position(s) they wish to save as a preset.
- 2. After positioning the camera, click on the 'Create' button. Subsequently, select the preset number under which they want to save this setting. Label the preset in the 'Name' field and click 'Save'.
- 3. To recall a preset, select the preset number on the Web Interface and click the "Go" button.
- 4. A saved preset can also be deleted by selecting it and clicking on the Delete button.



Adjusting OSD Menu Settings from the Web Interface

The OSD Menu settings can be accessed and adjusted from the Web Interface. On the "Live View" page, locate and click the "Menu" icon situated at the bottom right of the live view image to display the OSD menu. The user can navigate through these settings using the arrows under "Pan/Tilt Control". The middle button is used to select, and the right arrow button is used to modify the setting. To exit this menu, simply click on the "Menu" icon again. The settings available in this menu encompass:

 Adjust Exposure, White Balance, Picture (Noise Reduction, E-Flip, ND Filter, IR Filter), Gamma, Lens (Focus, Stabilization), Pan & Tilt, Genlock, System (Pelco, Visca, IR, Baud Rate, Tally, Audio, Video Format) settings, and view System Status.

SETTINGS - FAST SETTINGS

This section provides quick access to frequently used settings. The Fast Settings page has four tabs: Device, Network, Codec, and User. For more information about these settings, please refer to the corresponding section in this user guide.

BOLİN	Fast Settings
B6-420	Device Network Codec User
B6-420 Live View Settings Fast Settings Camera Image Audio Network System Operation	Device NameB6-420Model NumberB6-420Product Serial Number00000000000000IP Encoder VersionN05010B47070FA0100011MCU FW VersionV1A2947020A100002AF Version2.0.148Aprily
User admin Logour	

CAMERA - CAMERA SETTINGS

This page consists of 3 tabs: Codec, Output, and Overlay.

CODEC

From the Codec tab, users can configure the video streams to meet their requirements. The various settings and their functions are described below.

BOLİN	Camera Sett	ing					
_	Codec C	Output Overlay					
B6-420		_					
Live View	Ultra Low Latency Enable Ultra Low La	etency mode will disable					
Settings	Main Stream		Sub Stream	_			
Fast Settings	Stream Type		Stream Type				
Camera	Video Compression	H.264 ~	Video Compression	H.264 ~			
Image	Resolution	4K ~	Resolution	640*480 ~			
Audio	Frame Rate(fps)	60	Frame Rate(fps)	60			
Network	Bitrate Type	CBR ~	Bitrate Type	CBR ~			
System	Bit Rate(Kbps)	112640	Bit Rate(Kbps)	3072			
Operation	l Frame Interval	20	l Frame Interval	20			
Operation	Apply Default						
	التنتقل التقليل						
User admin Logout							

Ultra Low Latency on and off option.

Sub Stream option is enabled and disabled.

Video Compression: Options are H264 (AVC) or H265 (HEVC).

Video compression allows for the video signal to be streamed over the network while utilizing less space (data and bandwidth), while still maintaining a good-quality image. While this does cause some image degradation, compression only removes unwanted frames of video (determined by codec) and still maintains the necessary data and high quality required to stream.

Recommended: H.265 (HEVC)

	H.264 (AVC)	H.265 (HEVC)
Minimum Bandwidth Needed	720P - 3 Mbps 1080p - 6 Mbps 4K - 32 Mbps	720P - 1.5 Mbps 1080p - 4 Mbps 4K - 15 Mbps
Intraframe Prediction	9 Modes	35 Modes
Color Depth	8-Bit	10-Bit
Pros	Higher compatibility with devices Uses less computing power	More efficient codec, less bandwidth utilization Near lossless encoding Better motion prediction & compensation.
Cons	Uses more bandwidth Doesn't support HDR & resolutions higher than 4K	Not as widely adopted; limited compatibility Requires more powerful equipment for processing

Frame Rate (Frames Per Second - FPS): Options follow Input, Custom (0-60).

The frame rate is the number of frames (consecutive images) that are displayed in a video in a second to show movement. A higher frame rate will show smoother video and clearer images, while a lower frame rate means choppier motion and blurry footage. Traditionally, frame rates are 24FPS in film/movies, 25-30FPS on TV, and 30-60FPS for streaming video. When choosing frame rates, it is important to consider the bandwidth available on a network. Higher frame rates require higher bandwidth.

Recommended: Follow Input

Bitrate Type & Bit Rate (Kbps): CBR, VBR ; Custom.

Bitrate refers to the number of bits (data) that are encoded within a unit of time and is typically measured in Kbps (kilobits per second) or Mbps (megabits per second). Higher bitrate mean that more data is being encoded, which leads to a better-quality image, but encoding is dependent on the bandwidth and network speeds available. Even if the video signal being encoded is high resolution, the outgoing video may still be low resolution if the bitrate isn't high enough. On the flip side, if the bit rate is too high, it may cause buffering as there is too much data to be processed and not enough resources on a device.

There are two methods of encoding video: constant bitrate and variable bitrate. Constant bitrate encode data at a consistent rate throughout the stream, while variable bitrate change based on the bandwidth required to encode the data. While there are advantages to both, variable bitrate are recommended to more efficiently encode video streams.

Recommended Bitrate for Video Streaming

Quality	Resolution	Bitrate
720P	1280x720	1200 - 4000 Kbps
1080P	1920x1080	4000 - 8000 Kbps
4К	3840x2160	8000 - 14000 Kbps

I Frame Interval: Options are Custom (5-250).

Video streams consist of I-frames (Intra-frames) and P-frames (Predictive frames). I-frames capture the full image of everything the camera sees, while P-frames only capture elements of the image that are moving/changing. I-frames are followed by p-frames in a video stream. The reason for this is to compress the camera's bitrate and utilize less bandwidth. Rather than capturing/encoding a full image for every frame, the camera only needs to encode what has changed in one frame. A lower I-frame interval means a higher bitrate/bandwidth is needed to accommodate the number of full images being sent. This is recommended if a camera needs to refresh the image more often due to a scene with heavy motion.

It is recommended to set the I-frame interval to the same as the frame rate.

OUTPUT

Here you can select the HDMI/ SDI video resolution output of the camera.

BOLİN	Camera Setting
26.400	Codec Output Overlay
86-420	Digital Signal Output
Live View	Resolution 2160P60 ~
Settings	Арру
Fast Settings	
Camera	
Image	
Audio	
Network	
System	
Operation	
User admin Logout	
UVERLAT	
	Camera Setting
	Camera Setting
	Camera Setting Codec Output Overlay
	Camera Setting Codec Output Overlay Main Stream Pap/Till Control
BOLÍN B6-420 Live View Settings	Camera Setting Codec Output Overlay Main Stream Pan/Tilt Control Pan/Tilt Control Pan/Tilt Control
BOLIN B6-420 Live View Settings Fast Settings	Camera Setting Codec Output Overlay Main Stream Sub Stream Pan/Tilt Control Pan/Tilt Control Com +
BG-420 Live View Settings Fast Settings	Camera Setting Codec Output Overlay Varistream Satisfies Par/Tilt Control
BOLIN B6-420 Live View Settings Fast Settings Camera Image	Codec Output Overlay Tain Stream Sub Stream For Stream Sub Stream Par/Tilt Control Par/Tilt Control MOORDRAROS Par/Tilt Control Codec Par/Tilt Control
BOLIN B6-420 Live View Settings Fast Settings Camera Image Audio	Codec Output Output Overlay
BCLIN B6-420 Live View Settings Fast Settings Camera Image Audio Network	<section-header><complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block></section-header>
BG-420 Live View Settings Fast Settings Camera Image Audio Network System	<section-header><section-header><complex-block><complex-block><complex-block><complex-block></complex-block></complex-block></complex-block></complex-block></section-header></section-header>
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B6-420 Live View Settings Fast Settings Camera Image Audio Network System Operation	<section-header><complex-block></complex-block></section-header>

Steps to implement an on-screen overlay:

- 1. Begin by adding text to the title bar, such as in '1-Title', then click on the checkbox located furthest to the left (which will turn red with a white check mark) to display it on the live feed image.
- 2. The box closest to the text bar is initially set in white. To alter the text color, click on this box. The user

can select from white, black, yellow, red, and blue.

- 3. To reposition the text within the live feed image, make use of the 'position adjustment' section situated on the left of the page.
- 4. The '5-logo' option allows the user to upload an image. The image must be in PNG format and have dimensions less than 1920x1080 pixels. Please note that this image will only be displayed on the user's main stream.





Exposure Mode can choose from the following: Full Auto, Manual, Shutter Priority, or Iris Priority. Please be aware that the parameters (such as Iris, Shutter Speed, and others) will automatically adjust according to the selected mode. You have the option to turn the Smart Exaction on or off. WHITE BALANCE



The white Balance menu is utilized for choosing the mode of white balance.

WB Modes include: Auto, Indoor, Outdoor, OPW, ATW, User, Outdoor Auto, SVL Auto, SVL, SVLOutdoor Auto. PICTURE 1



The settings include adjustments for Sharpness and Hue, as well as 2D and 3D Noise Reduction. There are also options to turn on or off features such as Flip, Mirror, Portrait, Backlight Compensation, and De-Flicker. The De-Flicker feature has settings for Off, 50Hz, and 60Hz. **PICTURE 2**



The settings allow for adjustments to the Gamma level, Contrast, Saturation, and Brightness. There is also an option to turn on or off the Wide Dynamic Range (WDR), along with an option for level adjustment. **SCENE**



The settings include Scene presets with options for Default, Brightness, Clear, and Soft. There are Defog options with settings for Off, Auto, Manual, and Low. The Day/Night Mode has settings for Day, Night, and Auto, with sensitivity adjustments available for Low, Middle, and High levels. **LENS**



The settings include a Mode option for Auto, Manual, and One Push White Balance. There are Zone settings available for the entire video image, or specifically for the Top, Center, or Bottom. Near Limit adjustments can be made at distances of 1cm, 30cm, or 1 meter. Sensitivity settings can be adjusted to Low, Middle, or High levels.

COLOR MATRIX



You can emphasize or weaken a specific color region while keeping the white convergence point unchanged.

		AUDIO		
AUDIO		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
BOLİN	Audio Settings			
B6-420				
Live View	Audio Input Audio Compression	Mute		
Settings	Bit Rate(bps)	128K Y		
Fast Settings	Sampling Rate(sps)	48KHz ~		
Camera	Input Volume	50dB		
Image	Apply Default			
Audio				
Network				
System				
Operation				
User admin Logout				

- Audio Input: Mute On/Off
- Audio Compression setting: AAC, G711a or G711u
- Bit Rate selection: 30K, 40K, 48K, 64K, 96K,128K
- Sample Rate setting: 16K, 32K, 44.1K, and 48K
- Input Volume control: slider from 0 to 100.
- Apply settings or reset to Default settings.

NOTE: When the audio compression is set to G711a or G711u, the Bit Rate is locked to 64K and Sample Rate to 8K.

NETWORK

NETWORK

BOLİN	Network Setting									
	Network	Port	RTSP	RTMP	FTP	Multicast	SRT]		
B6-420										
Live View	Pattern			`	DHCP	Fallback				
Settings	IP Protocol Ve	rsion			I	P Address	192.168.	.0.13		
	IP Address				2	Subnet Mask	255.255.	.255.0		
Fast Settings	Subnet Mask				C	Gateway	192.168.	192.168.0.254		
Camera	Default Gatew	lay			I	limeout	60			
Image	Preferred DNS	5 Server								
Audio	Alternate DNS	Server								
Network	MAC Address									
System	Apply									
Operation										
User admin Logout										

The **Network** tab provides the following configuration options:

- **Pattern:** Choose between DHCP, which allows the camera to automatically receive an IP address from the DHCP server, or Static, which allows you to manually input an IP address.
- IP Address: Use the assigned IP address or manually enter a static IP address.
- Subnet Mask: This is determined based on the range of the IP address class.
- **Default Gateway:** Enter the IP address of the network's gateway.
- Preferred DNS (Domain Name System): Input the IP address of the DNS server.
- Alternate DNS: Enter the IP address of an alternate DNS server.

PORT

BOLİN	Network Setting							
	Network	Port	RTSP	RTMP	FTP	Multicast	SRT	
B6-420								
Live View	TCP Port	36666		1-65535				
Cattinga	UDP Port	37778		1-65535				
Settings	RTSP Port	554		1-65535				
Fast Settings	VISCA Over IP	52381		1-65535				
Camera	ONVIF Port							
Image	HTTP Port							
Audio	Apply							
Network								
System								
Operation								
User admin Logout								

The **Port** tab provides the following configuration options:

- TCP Port: Adjustable within a range of 1 to 65535.
- UDP Port: Adjustable within a range of 1 to 65535.
- **RTSP Port:** Defaulted to 554. RTSP is the protocol used for real-time video playback over the network, compatible with software like VLC Media Player. Changing the RTSP port number alters the RTSP video viewing method. As most RTSP streaming software uses port 554, it's generally not recommended to change this port number.
- VISCA Port: Defaulted to 52381 to align with Bolin's controller.
- Telnet Port: This can be enabled or disabled as needed.

RTSP (REAL-TIME STREAMING PROTOCOL)

	Notwork Satting
R6 420	Network Port RTSP RTMP FTP Multicast SRT
B0-420	Authentication
Live View	Main Stream
Settings	RTSP Address (1) rtsp://192.168.3.67:554/media/video0
Fast Settings	
Camera	Sub Stream
Image	RTSP Address 🕅 rtsp://192.168.3.67:554/media/video1
Audio	
Network	
System	
Operation	
User admin Logout	

Use the **RTSP** tab to Copy the URL streaming address of the Main or Sub Streams. Paste the RTSP URL address in the Network Stream section of the VLC Media Player (or other video streaming software) to play video in real-time.

RTMP (REAL-TIME MESSAGING PROTOCOL)

BOLİN	Network Setting	1					
	Network Port	RTSP		FTP	Multicast	SRT	
B6-420							
Live View	Publish To Server 🌐	Enable					
	Stream Type			Sub Stream			
Settings	Server URL						
Fast Settings	Push Flow Code						
Camera							
Image	Publish To Server 🌐	Enable					
Audio	Stream Type		n	Sub Stream			
Network	Server URL						
Sustam	Push Flow Code						
System	Apply						
Operation							
User admin Logout							

Navigate to the **RTMP** tab to stream or publish a video to a CDN (Content Delivery Network) or a cloud

platform. You can obtain the URL stream and key number from an online platform such as YouTube or Twitch, usually found under Stream Settings in YouTube Studio.

- Stream Type: Choose between the Main or Sub Stream.
- Server URL: Insert the URL copied from the online platform.
- **Push-Flow Code:** Input the auto-generated Key or ID provided by the online platform. There are two "Publish To Server" options available for both Main and Sub Streams.

FTP (FILE TRANSFER PROTOCOL)

BOLİN	Network Se	tting						
	Network	Port	RTSP	RTMP	FTP	Multicast	SRT	
B6-420								
Live View	FTP	Er	nable		Snapshot Char	nnel1 🔵 E	nable	
Settings	Server IP Server Port	21			Interval	<u>[</u>	sec	
Fast Settings	Server username	admin						
Camera	Server password	•••••						
Image	Path Type	Default r	pot	~				
Audio	Path							
Network	Apply							
System								
Operation								
User admin Logout								

- 1. Enable the FTP server.
- 2. Enter the IP address of the FTP server into the 'Server IP' field.
- 3. Enter the FTP server's port number into the 'Server Port' field. This should match the port configured on the FTP server, typically port 21.
- 4. Enter the FTP server's username and password into the 'Server Username' and 'Server Password' fields, respectively. These credentials should match those configured on the FTP server.
- 5. Choose the 'Path Type' and 'Path' where you want the snapshot to be saved on the FTP server.

MULTICAST

BOLİN	Network Setting
	Network Port RTSP RTMP FTP Multicast SRT
B6-420	
Live View	Main Stream
Settings	Multicast Address 224.0.0.2 (224.0.0.1 - 239.255.255.254)
Fast Settings	Access address 1 do://@224.0.0.2:0
Camera	
Image	Sub Stream
Audio	Multicast Address 224-0-0-5 (224.0.0.1 - 239.255.255.254)
Network	Access address 🖞 udp://@224.0.0.3:0
System	
Operation	Apply
User admin Logout	

On this page, users can configure multicast for both the Main and Sub streams. This is particularly useful for conserving bandwidth in live-streaming applications.

- 1. Follow the specified Multicast address range to configure a multicast IP address for the Main Stream.
- 2. Follow the specified Multicast Port range to configure a multicast port for the Main Stream.
- 3. Click the 'Apply' button and restart the camera to ensure the settings take effect.
- 4. After the camera completes its power cycle, click the 'Copy' button to copy the multicast URL address. This URL can be used for accessing the Main Stream.

NOTE: Multicast streaming uses MPEG-TS over UDP.

SRT

BOLİN	Network Setting							
	Network Port	RTSP	RTMP	FTP	Multicast]		
B6-420								
Live View	SRT Streaming	Caller	🔵 Er	able				
Cattinga	Stream Type		Sub Str	eam				
Settings	Stream Status							
Fast Settings	Destination IP(Hostname)							
Camera	Latency	50		ms (20	-5000)			
Image	Port	8001		(1-655	35)			
Audio	Stream ID	live/channel/0						
Network	Encryption	OFF		~				
System	Apply							
Operation								
User admin Logout								

- Stream Type: Main and Sub Stream options
- SRT Streaming: Enable: Caller, Listener and Rendezvous selection.
- **Caller:** Set the source or destination device as the initiator of the SRT streaming session. Note, Caller mode only is sent to one receiver.
 - 1. The Caller device must know the IP address and port number of the Listener device.
 - 2. Enter the Destination IP and Port # accordingly. Stream ID set to 1 or default and the latency (between Caller and Listener) can be adjusted from 20 to 5000ms.
- Listener: Set the device to wait for a request to start an SRT streaming session. The Listener device just needs to know that it should listen to the SRT streaming on a specific port. Enter the Port # accordingly.
- **Stream ID** is set to 1 or default and the latency (between Caller and Listener) can be adjusted from 20 to 5000ms.
- **Rendezvous:** Allows two devices to use the same port to start an SRT session. Both source and destination must be in Rendezvous mode. Enter the Destination IP and Port # according.

NOTE: AES Encryption is available for all three modes (Caller, Listener and Rendezvous) and can be adjusted to: 128,192 or 256-bit encryption to ensure end to end security (no passphrase is required).

BOLİN	System Settings	
DC 420	Device Time Maintenance User	
	Device Name B6-420	
Settings	Model Number B6-420	
Fast Settings	Product Serial Number 000000000000000000000000000000000000	
Camera	MCU FW Version V1A2947020A100002	
Image	AF Version 2.0.148	
Audio	Apply	
Network		
System		
Operation		
User admin Logout		

The **Device** tab provides fundamental details about the PTZ camera.

• Device Name: You can assign a unique name to the camera and confirm by clicking Apply.

You may need to share the information from this tab with the Bolin technical team, which includes the Model number, Serial number, IP Encoder Version, and AF Version. **TIME** tab allows you to set the Date and Time of the PTZ camera.

BOLÍN	System Setti	ings			
		ing Maintenance Us	er		
B6-420					
Live View	Current Time	2024-05-16 10:08:54	~		
Settings	System Time	Sync Sync with Computer 1	Time		
Fast Settings	Date Format	Y-M-D	~		
Camera	Time Format	24H: H-M-S	~		
Image	Time Zone	(UTC-08:00) Pacific Time	~		
Audio	Apply Default				
Network					
System					
Operation					
User admin Logout					

- **System Time:** You can check the Sync with Computer Time box to sync the computer time with the PTZ camera.
- Date Format: Y-M-D or D-M-Y
- Time Format: 24H or 12H
- Time Zone: 11 for West, one Middle and 8 for East time zones.
- Network Time Sync: Check this box to input the time from a Sync Server.
- Time Sync Server: Sync Server URL address.
- **Port:** Enter a Port number.
- Refresh: Select a refresh rate time:10 Min, 30 Min, 1 Hour, 1 Day.

Apply settings or click on Default to reset. **MAINTENANCE**

BOLIN	System Settings
	Device Time Maintenance User
B6-420	
Live View	Firmware Update
Settings	File Doubte
Fast Settings	Device Restart
Camera	Auto Restart Destart
Image	
Audio	Default Setting
Network	If restore the default but Keep Network Configuration, Device Name, login password will not be reset to default.
System	
Operation	
User admin Logout	

Firmware Update: Click on the File Browser section and select the Firmware file update. Click on the Update button to update the PTZ camera.

Device Restart: Schedule Auto Restart to: Never, Per day, Per week or Per month. Restart manually. **Default Settings:** Check Keep Network Configuration and Reset everything else. Or, Reset all.

NOTE: Restoring the default settings won't reset the Network Configuration, Device Name, or login password.

USER

BOLİN	System Settir	ngs			
B6-420	Device Tir	ne Maintenance			
	User Managem	nent			
	Username	Role	User Permissions	Operation	
Settings	admin	Administrator	Firmware Update/PTZ Control	Ô	
Fast Settings			+ Add users		
Camera					
Image					
Audio					
Network					
System					
Operation					
User admin Logout					

The **User** tab, located under the System section, is where you can manage operators who have access to the camera. Note that operators do not have the same level of access to system settings as administrators. **User Management:**

- 1. The 'Add users' button needs to be clicked.
- 2. A username for the new user should be entered.
- 3. A role for the user should be chosen. Either 'Operator', who will not have access to system settings, or 'Administrator', who will have access to all settings, can be selected.
- 4. A password for the user should be created. It is strongly recommended to use a strong password that includes at least one uppercase letter, one lowercase letter, one number, and one special character.
- 5. The user's permissions should be set. 'Software Upgrade' and/or 'PTZ Control' can be selected.
- 6. Finally, 'Save' should be clicked to add the user.

OPERATION

LOG

BOLİN	Operation
B6-420	
Live View	Start Time 2024-06-03 13:49:31 End Time 2024-06-04 13:49:31 Event Type All 🗸 Search
Settings	
Fast Settings	
Camera	
Image	
Audio	
Network	
System	
Operation	
User admin Logout	

Under the "Logs" tab, users can see the actions that are performed by the device. The log can be filtered by 'All', Information, Warnings, and Errors.

System Menus

Technical Specifications					
B6-420 User Guide	www.bolintechnology.com	Bolin Technology			