

Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

- › [Chameye](#) /
- › [Chameye 4K PTZ Camera \(CH420\) Instruction Manual](#)

Chameye CH420

Chameye 4K PTZ Camera (CH420) Instruction Manual

Model: CH420 | Brand: Chameye

INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your Chameye 4K PTZ Camera (CH420). Designed for high-quality video conferencing, live streaming, and educational events, this camera features advanced AI auto-tracking, 20X optical zoom, and versatile connectivity options. Please read this manual thoroughly before using the product to ensure optimal performance and longevity.

PRODUCT OVERVIEW

4K UHD PTZ Camera

The Chameye 4K AI Tracking PTZ conference camera features a 1/2.5-inch CMOS sensor with 8.51 megapixels, delivering 4K (3840x2160) resolution at up to 30 frames per second (fps). Automatic exposure ensures clarity in low-light environments. It is ideal for video conferencing, church live services, worship, education, teaching broadcasts, and events.



Image: Comparison of 4K UHD versus Full HD 1080p video quality, demonstrating the superior clarity of the Chameye 4K PTZ Camera in a church setting.

20X Optical Zoom

Equipped with 20x optical zoom and 16x digital zoom, the camera provides high-definition images from various distances. Fast auto-focus maintains image clarity during zooming for a smooth live experience. Power over Ethernet (PoE) functionality allows power, control, and video/audio transmission over a single network cable.

Chameye >>

20X Optical Zoom Loseless UHD Lens



Image: The Chameye 4K PTZ Camera showcasing its 20X optical zoom capability, capturing distant details within a church.

AI Tracking

The 4K Conference Room Camera supports AI tracking and auto-framing. Activate AI Tracking by pressing F3 on the remote control and deactivate with F4. Tracking speed is adjustable from 1 to 10. Advanced 2D and 3D noise reduction technology, combined with a low-noise CMOS sensor, optimizes image quality in real-time.



Image: The Chameye 4K PTZ Camera utilizing AI auto tracking to keep a speaker centered on stage.

Multiple Video Output Interface

The camera offers USB3.0, HDMI, and IP video outputs. HDMI/USB connections support 4K@30/25, 1080P60/59.94/50, 1080P30/29.97/25, and 720P60/50. IP streaming supports 1080P30/29.97/25 and 720P60/50. It supports H.264/H.265 encoding for smooth and clear video even with low bandwidth.



Image: Detailed view of the Chameye 4K PTZ Camera's multiple video output ports, including HDMI, USB3.0, and LAN, alongside logos of compatible software and platforms.

Easy Control

Pan/Tilt/Zoom speed is adjustable. The camera supports 10 preset positions via the IR remote control and 255 presets with the Chameye PTZ controller E300. Network settings, previews, camera controls, and parameter settings can be accessed via the camera's web interface in your browser.

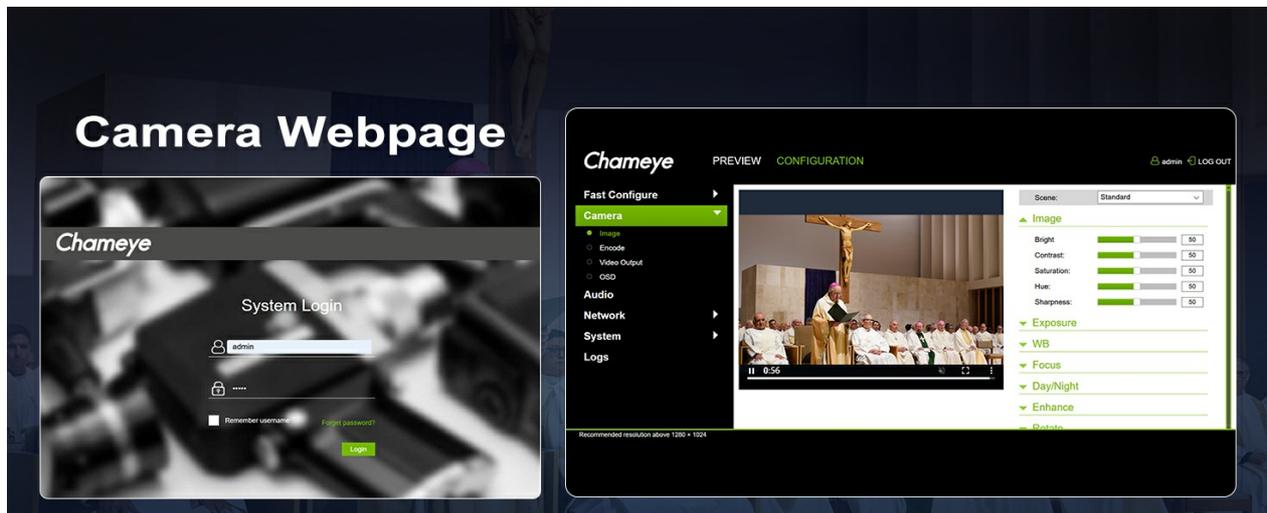


Image: Screenshot illustrating the user-friendly web interface for the Chameye 4K PTZ Camera, showing login and various camera settings.

Multiple Installation Options

The camera supports Desktop, Tripod mounting, Wall mounting, and Ceiling mounting to adapt to different room layouts and space requirements.

Chameye >>

Easy installation

Wall Mount

Ceiling Mount

Tripod Mount

Packing List

- 4K PTZ Camera
- Remote Control
- USB3.0 Cable
- LAN Cable
- Wallmount Bracket
- Ceiling Bracket
- Power Cable
- User Manual

Image: The Chameye 4K PTZ Camera displayed with its versatile installation options, including wall, ceiling, and tripod mounts, in a church setting.

Broad Compatibility

Compatible with PTZ controllers, BlackMagic Design, and other video mixer switchers. It works with vMix/OBS, Zoom, Teams, Voov meeting, CISCO WebEx, and supports multi-camera video production for live streaming to YouTube and Facebook. Supports VISCA, PELCO P/D, and other protocols.



Broad Compatibility

Widely Compatible with Meeting,
Streaming Softwares & Operating Systems/Devices.



Image: The Chameye 4K PTZ Camera highlighting its broad compatibility with operating systems like Windows, Android, MacOS, and Linux, as well as popular streaming software such as vMix, YouTube, Zoom, and OBS Studio.

USB Plug & Play

Supports TF card storage for video recording (TF card not included). USB 2.0 supports the connection of an omnidirectional microphone, mainly used in conference scenarios for simultaneous audio and video output. USB 3.0 offers plug & play functionality, requiring no additional drivers.

WHAT'S IN THE BOX

The Chameye 4K PTZ Camera package includes the following items:

- Chameye 4K PTZ Camera (CH420)
- IR Remote Control
- USB3.0 Cable
- LAN Cable

- Wallmount Bracket
- Ceiling Bracket
- Power Cable
- User Manual

Chameye >> Easy installation



Image: The Chameye 4K PTZ Camera displayed with its versatile installation options, including wall, ceiling, and tripod mounts, in a church setting, also showing the included accessories in the packing list.

SETUP INSTRUCTIONS

1. Physical Connections

1. **Power Connection:** Connect the power cable to the DC 12V port or use a PoE-enabled LAN cable for power.
2. **Video Output:** Connect the camera to your display or video switcher using an HDMI cable, USB3.0 cable, or LAN cable for IP streaming.

3. **Audio Input:** If using an external microphone, connect it to the LINE IN port.
4. **Control Connections:** For external control, connect via the RS-232 or RS-485 ports.

Image: Detailed view of the Chameye 4K PTZ Camera's multiple video output ports, including HDMI, USB3.0, and LAN, alongside logos of compatible software and platforms.

2. Initial Configuration

Upon first use, you may need to adjust video format settings if your display does not support 4K resolution. Connect the camera via USB to a laptop and use the camera's remote control to access the on-screen menu. Navigate to 'Video Format' and select a compatible resolution (e.g., 1080P).

For network control, access the camera's menu via the remote control. Go to 'Network' settings, disable DHCP, and manually enter a static IP address and gateway that matches your network configuration. This allows the camera to be controlled via its web interface or a PTZ controller.

Your browser does not support the video tag.

Video: This video demonstrates the initial setup and connectivity options for a 4K PTZ camera, including port identification and basic configuration steps. It highlights the importance of adjusting video format settings for display compatibility and network setup for remote control.

OPERATING INSTRUCTIONS

1. Basic Controls

Use the IR remote control or a compatible PTZ controller (E300) to control the camera's Pan, Tilt, and Zoom functions. PTZ speed is adjustable (1-16) via the remote control.

2. Preset Positions

Set up to 10 preset positions using the IR remote control for quick camera movements. Up to 255 presets can be configured with the Chameye PTZ controller E300.

3. AI Tracking

Activate AI Tracking by pressing the F3 button on the IR remote control. Deactivate it by pressing F4. The tracking speed can be adjusted from 1 to 10 to suit your needs. The camera supports humanoid auto-tracking and auto-framing.

4. Video Recording

The camera supports video recording to a TF card (not included). Ensure a TF card is inserted into the designated slot for recording functionality.

5. Web Interface

Access the camera's web interface by entering its IP address into a web browser. From here, you can view live previews, control camera movements, and adjust various parameters and settings.

Your browser does not support the video tag.

Video: This video provides a detailed overview of the FEELWORLD 4K12X PTZ Camera, showcasing its features, connectivity, and control options. It highlights the camera's smooth pan/tilt/zoom movements, preset capabilities, and various input/output ports.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning cloth and solution.
- **Storage:** Store the camera in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping or subjecting the camera to strong vibrations.

TROUBLESHOOTING

- **No Video Output:** If your monitor does not display video, check the camera's video format settings. If the monitor does not support 4K, lower the resolution via the remote control menu (e.g., to 1080P).

- **Network Control Issues:** Verify that the camera's IP address, subnet mask, and gateway settings are correctly configured to match your network. Ensure DHCP is disabled if using a static IP.
- **Remote Control Unresponsive:** Ensure there is a clear line of sight between the remote and the camera. Check and replace batteries if necessary.

SPECIFICATIONS

Feature	Description
Manufacturer	Chameye
Model Number	CH420
Product Dimensions	33.02 x 25.4 x 26.67 cm; 3.5 kg
Photo Sensor Technology	CMOS
Video Capture Resolution	4K (3840x2160) @ 30fps
Optical Zoom	20X
Digital Zoom	16X
Maximum Focal Length	110 Millimeters
Maximum Aperture	2.8 f
Flash Memory Type	SD (for recording)
Video Capture Format	MP4
Supported Audio Format	AAC
Connectivity Technology	HDMI, LAN (PoE), USB3.0, AI-Track, RS-232, RS-485

WARRANTY & SUPPORT

All Chameye products come with a **3-year limited warranty**. For any inquiries or assistance, please utilize our **24/7 expert support**, professional technical support, and free online training resources. Your satisfaction is our top priority.

