

BG-EPTZ-UH4K

**4K UHD USB 3.0 and HDMI 2.0 Conference/Education ePTZ
Compact Camera**

User Manual







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Statement

Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

Safety Precaution

- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- The product has no power switch. Remove power immediately if camera is not in proper working condition to avoid electrical shock.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.
- Do not turn the camera head manually. Doing so may result in mechanical damage. Camera should only be placed on a stable horizontal surface and cannot be installed at an angle.
- Make sure there are no obstacles within the camera's rotational range when installing. Never power on before installation has been completed.



Introduction

The BG-EPTZ-UH4K is a powerful webcam in the hands of educators, students, remote employees, and other home broadcasters. This compact webcam offers users a degree of flexibility with simultaneous USB 3.0 and HDMI outputs while capturing images in up to 4k@30Hz resolution with 4x digital zoom.

With electronic pan/tilt/zoom (ePTZ), the BG-EPTZ-UH4K is a great option for presenters who need to zoom and shift the image to focus on different subjects in a field of view of up to 130°. Equipped with an omnidirectional microphone, this camera has the ability to clearly pick up voices from up to 8 meters away.

Its USB 3.0 connectivity isn't just for high-speed data transmission. It also provides power to the device making for easy setup and reducing the number of cables required to operate the webcam. With a universal mounting solution, the small BG-EPTZ-UH4K will fit perfectly in any situation, whether it be at home or in the studio on a desktop, monitor, tripod, or bracket.

Features

- 4K Ultra HD - Crystal clear image in any application
- USB 3.0 - High speed data transmission and power supply in one cable
- Integrated Microphone - Omni-directional pickup up to 8 meters
- Wide Angle - One of the widest FOV on the market - 130°!
- Integrated Mount - Mount to desktop, monitor, tripod, or bracket
- HDMI Output - Ideal for capture cards or extra monitors
- Sony 1/2.5" CMOS
- 0.02Lux @ F1.8
- Auto, indoor, outdoor, one push, and manual WB
- H.265 / H.264 / MJPEG encoding
- Voice pickup up to 8 meters
- 4X ePTZ digital zoom @1080p
- Small enough to take with you
- 1/30s ~ 1/10000s shutter speed
- Control with IR remote



Packing List

- 1x ePTZ Camera
- 1x IR Remote Controller
- 1x USB 3.0 Cable
- 1x User Manual
- 1x Quick Start Guide



Technical Specifications

Camera	
Video System	Sony 1/2.5" CMOS
Min Illumination	0.02Lux @ F1.8, AGC ON
Effective Pixel	4K@3820*2160
Digital Noise Reduce	2D, 3D
Zoom	4X Digital Zoom @ 1080p
Shutter	1/30s ~ 1/10000s
Lens	F=2.8mm FOV 130°
Auto Focus	Supported
White Balance	Auto / Indoor / Outdoor / ONE PUSH, Manual
USB Function	
Video Output	4K@30Hz/25; 1080p@30Hz/25; 1080i@60Hz/50/30/25; 720p@60Hz/50Hz
Encoding	H.265 / H.264 / MJPEG
UVC Protocol	Support
Video	UVC1.0 - UVC1.5
Audio Function	
Built-in	YES
Audio	USB 3.0
Voice Pickup Range	8 Meters
HDMI Interface	
Video Output	4K@30Hz/25; 1080p@30Hz25; 1080i@60Hz/50/30/25; 720p@60Hz/50
Encoding	H.265 / H.264 / MJPEG
Audio Output	N/A
ePTZ	Supported, 4X Digital Zoom @ 1080p
Interface: USB 3.0 Type B Female	Compatible with all interfaces below USB 3.0, support video, control, power supply, audio input and output
Interface: HDMI 2.0	Compatible with HDMI 2.0, 1.4, 1.3A, 1.3 and other interfaces, only supports video transmission
Dome Parameter	
Input Voltage	5V (USB 3.0)
Operation Temperature	14°F ~ 122°F / -10°C ~ +50°C
Storage Temperature	-40°F ~ 140°F / -40°C ~ 60°C
MTBF	50000 hours
Camera Brackets	Brackets with Damper, Support±30° adjustment
Dimensions (L*W*H)	2.8 x 2.8 x 2.2in [70 x 70 x 56mm] (Bracket not included)



Camera Overview

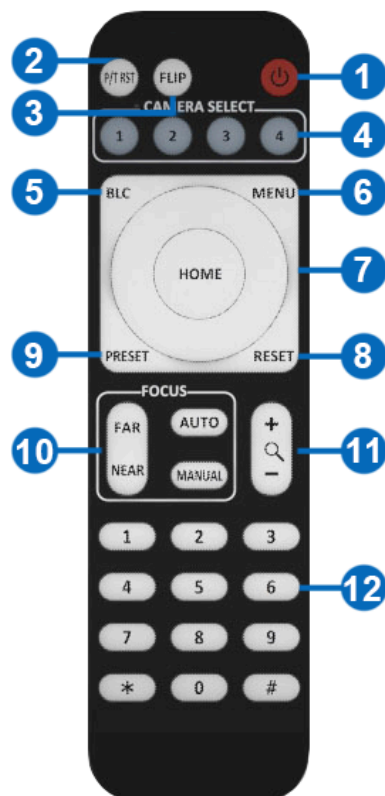
Connections Overview



1. **USB:** Connect a USB 3.0 type B cable to a PC for plug & play connectivity for any conferencing service like Skype or Zoom.
2. **HDMI:** Connect to an HDMI device such as a video production switcher or a video display up to 4K@30Hz.



Remote Control



No.	Key	Function
1	Power Key	After pressing, the camera enters standby mode
2	P/T RST Key	After pressing, the camera enters self-check
3	Flip Key	Set the camera image to flip
4	Camera Select Key	Select the camera to be controlled
5	BLC Key	Turn on/off BLC
6	Menu Key	Enter/Exit Menu
7	Camera PTZ Control Key	Press the HOME button to return the camera to the center position
8	Preset Erase Key	Press "Reset" + Number (1-9) to erase the corresponding Preset
9	Preset Setting Key	Press "Preset" + Number (1-9) to save the corresponding preset
10	Focus Key	[AUTO]: Automatic focus [MANUAL]: Manual focus [FAR]: Manual focus on distant objects [NEAR]: Manual focus on nearby objects
11	Zoom Key	+ increase, - decrease
12	Number Key	Used for setting and recalling Presets

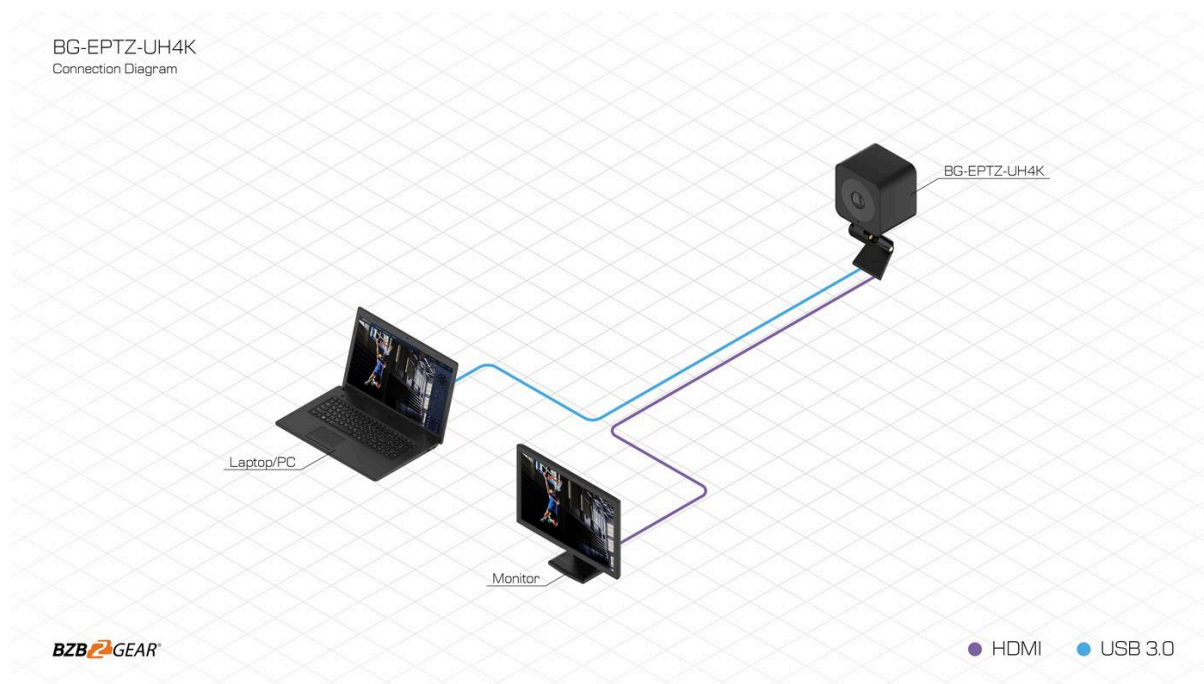
Notes:

Always maintain a direct and unobstructed line of sight between the remote control and the sensor on the front of the camera.

The EPTZ function will be disabled while the camera is in its "Home" position (fully zoomed out). You must zoom in by some degree to pan around the image using the EPTZ function.



Application Example





Tech Support

Have technical questions? We may have answered them already!

Please visit BZBGear's support page (bzbgear.com/support) for helpful information and tips regarding our products. Here you will find our Knowledge Base (bzbgear.com/knowledge-base) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV (youtube.com/c/BZBTVchannel), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

<u>Phone</u>	<u>Email</u>	<u>Live Chat</u>
1.888.499.9906	support@bzbgear.com	bzbgear.com

Limited Product Warranty Terms

Pro Line: 5-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Essential Line: 3-year warranty from the date of purchase for AV/Broadcasting products bought on or after August 1, 2024.

Cables: Lifetime Limited Product Warranty.

For complete warranty information, please visit bzbgear.com/warranty.

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

Mission Statement

BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.



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