

BG-STREAM-E

HDMI to IP/UVC POE Encoder

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.
- 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.



Introduction

The BG-STREAM-E HDMI to IP/UVC converter is a versatile device designed for high-quality video conversion from HDMI sources to IP streams or USB 3.0 UVC outputs. It features a single HDMI input and multiple output options, including an RJ45 port for IP streaming and a USB 3.0 Type-B port for UVC output, supporting streaming protocols such as RTSP, RTMP, HLS, TS, SRT, NDI HX, and Dante AV-H. With support for resolutions up to 1080p at 60/50fps and advanced H.265/H.264/AVC encoding, it ensures efficient compression and excellent video quality.

The device also supports AAC-LC audio with a configurable bit rate and a sample rate of 48KHz. Additional features include DHCP client support, POE input, a user-friendly web UI for system configuration, a compact size, and a secure locking DC jack power input, making it ideal for professional AV setups.

Features

- HDMI to IP and USB 3.0 Type B (UVC) conversion
- Supports up to 1080p resolution at 60/50fps
- Hardware compression in real-time mode
- H.265/H.264/AVC codec support
- AAC-LC audio codec with 48KHz sample rate
- Multiple streaming protocols: RTSP, NDI-HX, Dante AV-H, HLS, RTMP, TS, SRT
- DHCP client and configurable network settings
- Web UI for easy configuration and management
- UVC over IP support
- System control options: restore to default, reboot
- Account and password management
- DC locking power and PoE support
- Compact size: 103.8mm x 71.2mm x 26mm

Packing List

- 1x BG-STREAM-E
- 1x DC Power Adapter



Specifications

Technical Specifications	
Input Interface	Video <ul style="list-style-type: none"> 1×HDMI
Output Interface	Video <ul style="list-style-type: none"> 1×RJ45 (RTSP/RTMP/HLS/TS/SRT/NDI HX/Dante AV-H Support) 1×USB3.0 Type B (UVC) output.
Video Support	H.265/H.264/AVC, Baseline/Main/High Profile Supported HDMI output Resolutions <ul style="list-style-type: none"> 1920×1080p@60/50fps 1920×1080p@30/25/24fps 1920×1080i@60/50fps 1280×720p@60/50fps 1280×1024p@60fps 1280×960p@60fps 1024×768p@60fps 800×600p@60fps 640×480p@60fps 720×480p@60fps 720×576p@50fps
Audio Support	<ul style="list-style-type: none"> AAC-LC Configurable bit rate range from 32Kbps to 384Kbps Sample rate: 48KHz, 16bit
Max. FPS	1920×1080p@60/50fps
Network / Ethernet Support	<ul style="list-style-type: none"> 1×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Streaming Protocol Support	<ul style="list-style-type: none"> NDI Support (Separate License with NDI Required) Dante AV-H (Separate License with Dante AV-H Required) RTSP over UDP/TCP/Multicast/HTTP RTMP (Publish) TS over IP HLS
Additional Features	<ul style="list-style-type: none"> UVC Device Supported Web UI for System Configuration Firmware Upgradable
Power Supply	<ul style="list-style-type: none"> DC Input PoE Support
Unit Dimensions	103.8mm x 71.2mm x 26mm



Operation Controls and Functions



Front and Rear Panel

1. RJ45 Out / PoE In: Connect to a network or directly to a PC. (Note: A PoE-enabled network device is required for PoE functionality.)
2. Locking DC Power Adapter: Securely connect the power supply
3. Factory Reset: Use a pin to press and hold for a complete factory reset
4. HDMI In: Connect any compatible HDMI video source
5. UVC Out: Transmit video and audio via USB

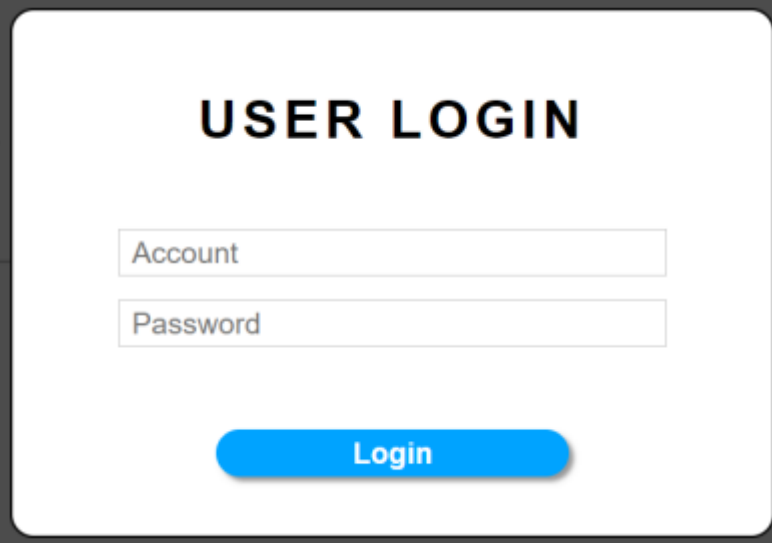


Web UI

To access the BG-STREAM-E Web UI, open an IP Finder tool and search for the device's IP address. Identify the correct IP address by matching it with the device's MAC address, then use it to open the control interface.

The Web UI is an intuitive interface that allows users to easily control the BG-STREAM-E from a standard PC or portable devices (e.g., Android, iPhone, iPad, etc.), providing a more convenient and flexible control experience.

Access and Login Instructions

A screenshot of the BG-STREAM-E Web UI login page. The page has a white background with a dark grey border. At the top, the text "USER LOGIN" is displayed in a large, bold, black sans-serif font. Below this, there are two input fields: the first is labeled "Account" and the second is labeled "Password", both in a smaller grey font. At the bottom of the form, there is a blue rounded rectangular button with the word "Login" in white text.

Username: admin
Password: 0000



Connection Diagram



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Troubleshooting

Problems	Causes	Solutions
No Power / All LED off	Power supply not connected, connected fully, or wrong power supply.	Check if the power supply is connected correctly and the output voltage value is within recommended specifications.
No sound or sound issues	The HDMI connection is faulty, the audio format is not supported by the displays, or the source player is set to another port for audio output	Check if the HDMI cables are connected correctly. Check if the audio format is supported by the display and that a user has not changed the supported audio format on the player's audio output. Ensure output settings from the HDMI source device as set correctly.
No picture or picture flickers	The HDMI cable may be faulty or the category cable quality is faulty.	Check if the HDMI and category cable connections are correct and undamaged. Change to another good working HDMI cable or category cable (CAT6 or better cable is recommended).



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:

Phone	Email	Live Chat
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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