

Catalog 2026

AV over IP

BZBGEAR

Audio/Video Over IP

BZBGEAR AV over IP (Audio-Visual over Internet Protocol) solutions enable the seamless transmission of high-quality audio and video data over networks like LAN, WAN, or the Internet. These solutions are highly scalable, allowing for the interconnection of an virtually unlimited number of devices.

The core components of an AV over IP system include a control box, transmitters, receivers, and a network switch. The control box acts as the central hub, providing remote control and monitoring.

Transmitters capture video signals from the source and transmit them across the network, while receivers ensure that these signals reach the appropriate output devices such as TVs, monitors, or projectors. The network switch efficiently routes signals between devices, ensuring smooth communication across the system.



SCALABLE SYSTEM
DESIGN



4K VIDEO
SUPPORT



FUTURE-PROOF



BG-VOP-MT

4K UHD HDMI OVER IP MULTICAST TRANSCIVER WITH VIDEO WALL/KVM/USB/POE SUPPORT

The BG-VOP-MT Transceiver performs both encoding and decoding for BZBGEAR's IPGEAR-4K system. The device offers outstanding 4K UHD HDMI video transmission over IP and has support for PoE. This device is a keystone in providing digital signage, video walls, and video distribution in commercial settings.

The BG-VOP-CB controller can auto-discover each BG-VOP-MT on the network, making for a painless setup process.

-  **4K** **ULTRA HD**
Output supports resolutions up to 4K2K@30Hz
-  **HDCP 2.2**
High-Bandwidth Digital Content Protection Supported
-  **VIDEO WALL**
Spread a source across multiple displays





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BG-VOP-CB

SMART CONTROLLER FOR VOP-MT HDMI OVER IP SERIES

The BG-VOP-CB Smart Controller provides system management for BZBGEAR's BG-VOP-MT transceivers. In addition to managing devices and serving as the gateway for the web interface, this TAA-Compliant unit allows users to monitor the IP-based BG-VOP-MT transceivers in real time.

With a web-based GUI users can drag and drop any source to any connected display, build video walls, and create custom on-screen displays (OSD).

-  **WEB INTERFACE AND MOBILE APP**
Use the Web Interface or Mobile app to easily control devices remotely
-  **CONTROL MULTIPLE TRANSCEVERS**
Control up to 1024 BG-VOP-MT transceivers over a wide area
-  **VIDEO MATRIX**
View any source on any display



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BG-IPGEAR-PRO-T
4K UHD HDMI 2.0 OVER IP MULTICAST
TRANSMITTER WITH VIDEO WALL/KVM/USB/POE
SUPPORT



The BG-IPGEAR-PRO-T is a high-performance transmitter/ encoder that is an essential component in the BZBGEAR IPGEAR-PRO AV over IP system.



 **GRAPHICS OVERLAY**
Add your own custom graphics to overlay displayed images or create Menu Boards

 **WEB INTERFACE AND MOBILE APP**
Use the Web Interface or Mobile app to easily control devices remotely

 **HDCP 2.2**
High-Bandwidth Digital Content Protection Supported




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BG-IPGEAR-PRO-R
4K UHD HDMI 2.0 OVER IP MULTICAST RECEIVER
WITH VIDEO WALL/KVM/USB/POE SUPPORT

The BG-IPGEAR-PRO-R is a high-performance Receiver/ Decoder that is an essential component in the BZBGEAR IPGEAR-PRO AV over IP system. It provides decoding of 4K 60Hz UHD HDMI video transmission over IP networks, and also has support for Power over Ethernet (PoE).

 **POE**
Delivers power directly over an ethernet cable

 **ULTRA HD**
Output supports resolutions up to 4K2K@60Hz

 **VIDEO WALL**
Spread a source across multiple displays





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BG-IPGEAR-PRO-C
SMART CONTROLLER FOR IPGEAR-PRO HDMI OVER
IP SERIES

The BG-IPGEAR-PRO-C Smart Controller provides system management for BZBGEAR's IPGEAR-PRO transmitters and receivers. In addition to managing devices and serving as the gateway for the web interface, this TAA-Compliant unit allows users to monitor the IP-based BG-IPGEAR-PRO-T transmitters in real time.



 **ULTRA HD**
Output supports resolutions up to 4K2K@60Hz

 **VIDEO WALL**
Spread a source across multiple displays

 **HDCP 2.2**
High-Bandwidth Digital Content Protection Supported



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BG-IPGEAR-ULTRA

4K UHD HDMI 2.0 OVER IP MULTICAST
TRANSCIEVER WITH SEAMLESS MATRIX
SWITCHING/VIDEO WALL/MULTIVIEW/KVM/USB
2.0/POE SUPPORT

Introducing the BG-IPGEAR-ULTRA 4K60Hz advanced AVoIP kit. Key features of the BG-IPGEAR-ULTRA series include HDMI 2.0b and HDCP 2.2 compliance, support for video resolutions up to 4K60Hz (4:4:4), and a video bandwidth of 18Gbps. Audio formats support LPCM 2.0CH at 48kHz. The system supports KVM seat management, universal H.264/265 protocol, high-definition background images, multi-screen splicing, scrolling subtitles, character overlay, point-to-point signal extension, signal distribution, multicast mode, matrix, and video wall functions over a 1G Network Switch.



-  **HDMI 2.0B AND HDCP 2.2**
Ensures seamless integration with the latest video standards
-  **4K@60HZ VIDEO**
Delivers stunning image quality with support for up to 18Gbps video bandwidth
-  **HIGH-QUALITY AUDIO**
Supports LPCM 2.0CH 48kHz for clear and precise audio output



BEST OF SHOW AWARDS AT
INFOCOMM 2025 - PUBLICATION:
SOUND & VIDEO CONTRACTOR



BEST OF SHOW AWARDS AT
IBC2024 - PUBLICATION:
INSTALLATION



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BG-IPGEAR-ULTRA-C

SMART CONTROLLER FOR IPGEAR-ULTRA HDMI OVER
IP SERIES

Elevate your audio/video over IP management with the BG-IPGEAR-ULTRA-C, a state-of-the-art 4K UHD 4:4:4 H.264/265 AVoIP Controller. Expertly designed to manage and control a wide range of video sources and IP products, this controller is an essential tool for professional AV setups, corporate environments, educational institutions, broadcast centers, and mission-critical control rooms.

Dual 1G network ports provide robust dual-network isolation, ensuring secure and seamless operations for both control and video distribution.

-  **DUAL 1G NETWORK PORTS**
Dual network ports with POE function support, isolating control and video networks for optimal performance
-  **WEB GUI CONTROL**
Built-in Web GUI control interface supports Drag & Drop operations, making system configuration a breeze
-  **ENHANCED SECURITYBG-IPGEAR-XTREME-PRO**
Compatible with HTTPS and SSH security protocols, and supports video AES256 security encryption for secure operations



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BG-IPGEAR-XTREME

4K UHD HDMI OVER IP MULTICAST SYSTEM
WITH SEAMLESS MATRIX SWITCHING/
MULTIVIEW/KVM/USB 3.1/POE

The BZBGEAR BG-IPGEAR-XTREME Series delivers next-generation HDMI 2.1 over IP performance, enabling uncompressed 4K@120Hz 4:4:4 video, multi-channel audio, and KVM functionality over standard Cat.5e/6 cabling up to 100 meters. Designed for high-end AV environments, this system supports point-to-point, point-to-multipoint, and multicast configurations, providing seamless video switching, ultra-low latency, and flexible scalability.

4K 4K@120HZ 4:4:4 VIDEO TRANSMISSION

Provides ultra-high-definition video with crystal-clear clarity and exceptional color depth

HDMI 2.1 & HDCP 2.3 COMPLIANCE
Ensures compatibility with the latest high-definition content protection standards

INTELLIGENT NETWORK MANAGEMENT
Works with managed 1GbE switches supporting IGMP Snooping & 802.1Q VLAN for multicast optimization



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BG-IPGEAR-XTREME-W

4K UHD HDMI OVER IP MULTICAST WALL PLATE
WITH SEAMLESS MATRIX SWITCHING/
MULTIVIEW/KVM/USB 3.0/POE SUPPORT

The BG-IPGEAR-XTREME-W HDMI 2.1 Over IP Multicast Wall Plate System is a high-performance AV transmission solution designed to extend Ultra-HD 4K@120Hz 4:4:4 video and high-fidelity audio over long distances via standard Cat.5e cable.

Supporting distances of up to 100 meters (330 feet) over copper, this system ensures uncompressed, high-quality transmission from HDMI sources such as Apple TV, PlayStation, Xbox, PCs, and other HDMI-enabled devices to remote displays.

HDMI 2.1 & HDCP 2.3
Delivers 4K@120Hz 4:4:4 with up to 40Gbps (FRL 5), HDR, VRR, ALLM, and eARC/ARC for premium video and audio

EXTENDED TRANSMISSION
Transmits uncompressed video and 7.1-channel audio up to 100m (330ft) over Cat.5e with zero degradation and auto equalization

FLEXIBLE CONNECTIVITY
Features HDMI, USB-C (DP 1.4 Alt Mode), 3.5mm audio, RJ-45 Ethernet, and USB 3.1 Gen1/Gen2 for peripherals and UVC webcams



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BG-IPGEAR-XTREME-PRO

8K UHD AV OVER IP MULTICAST TRANSCIVER WITH SEAMLESS MATRIX SWITCHING/VIDEO WALL/MULTIVIEW/KVM/USB 3.0/POE SUPPORT

The BG-IPGEAR-XTREME-PRO is a high-performance HDMI 2.1 over IP multicast transceiver system designed for seamless AV transmission over 1GbE networks. This system supports 8K@60Hz 4:2:2 DSC and 4K@144Hz 4:4:4, providing crystal-clear video and ultra-low latency, making it ideal for applications in gaming, broadcasting, healthcare, digital signage, and professional AV environments.

With HDMI 2.1, USB-C (Alt Mode DP 1.4), and eARC/ARC compatibility, the BG-IPGEAR-XTREME-PRO ensures broad device support and superior compatibility.

- 8K

ULTRA-HD RESOLUTION
Up to 8K@60Hz (4:2:2 DSC) & 4K@144Hz (4:4:4)
- VIDEO WALL SUPPORT
Advanced functionality with image rotation & flipping
- MULTI-VIEW MODES
PiP, PbP, & PoP (Chroma Key) for enhanced display options



BEST OF SHOW AT IBC 2025 - AVTECHNOLOGY



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BG-IPGEAR-XTREME-F

HDMI 2.1 OVER FIBER EXTENDER WITH BI-DIRECTIONAL IR, RS-232, 1G ETHERNET, USB 3.1 & KVM SUPPORT

The BG-IPGEAR-XTREME-F is a cutting-edge HDMI 2.1 over fiber extender designed for mission-critical AV transmission in broadcast, medical imaging, eSports, control rooms, and high-end home theater applications.

With support for uncompressed 4K60 4:4:4 and visually lossless DSC-compressed 4K144 4:4:4, it also enables 8K@30Hz 4:4:4 transmission, ensuring next-generation video performance with zero-frame latency over distances up to 10km (6.25 miles) via single-mode fiber optic cable.

- 8K

8K & 4K HDR SUPPORT
Transmits up to 8K@30Hz 4:4:4, 4K@144Hz 4:4:4 DSC, and 4K@60Hz 4:4:4 uncompressed for pristine image quality
- HDMI 2.1 & HDCP 2.3 COMPLIANCE
Ensures compatibility with gaming consoles, media servers, professional video switchers, and AV processors
- 48GBPS VIDEO BANDWIDTH (FRL 6)
Provides high-speed, zero-latency transmission for next-generation AV applications



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BZBGEAR

Streaming Encoders / Decoders

BZBGEAR video encoders and decoders are essential tools for converting and transmitting video signals in various professional and enthusiast applications.

Encoders transform video signals from sources like HDMI or SDI into formats suitable for streaming over IP or USB, enabling high-quality live broadcasts to platforms such as YouTube and Twitch or integration into video conferencing systems. Decoders, on the other hand, receive live streams over IP, decode the audio and video signals, and output them as HDMI or SDI for display on monitors or large screens, making them ideal for remote viewing and monitoring.

These multifunctional units are widely used in live event production, digital signage, video distribution, and hybrid workflows, ensuring efficient content management and delivery.



HD TO 4K SUPPORT



NDI & DANTE SUPPORT



WEB GUI
CONTROLLABLE



BG-STREAM-D / BG-STREAM-ND
IP/UVC TO HDMI 2.0 POE DECODER SUPPORTS
H.264/H.265/AVC

The BG-STREAM-D IP/UVC to HDMI2.0 is a versatile and compact video decoder that bridges the gap between various video input sources and HDMI output. Featuring a single RJ45 input, USB 3.0 Type A (UVC) input, and HDMI 2.0 output, this device is ideal for high-definition video processing and streaming. It is powered through a secure locking DC jack, ensuring stable and reliable operation.

4K HIGH-QUALITY VIDEO PROCESSING

Capable of resolutions up to 4K@60Hz with downscaling ability

COMPREHENSIVE AUDIO SUPPORT

Utilizes AAC-LC codec with a configurable bit rate range from 32Kbps to 384Kbps

ADVANCED NETWORK CAPABILITIES

Includes DHCP support and Power over Ethernet (PoE) functionality

Dante®



BG-STREAM-D - This device is Dante AV-H Ready, meaning it includes the necessary integration to support Audinate's Dante AV-H software-based video-over-IP protocol.



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NDI HX3



BG-STREAM-ND - This device supports NDI HX3. Network Device Interface (NDI) is a high performance AV over IP standard that allows anyone to use real time, ultra low latency video on existing IP video networks.



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BG-STREAM-E / BG-STREAM-NE
HDMI TO IP/UVC POE ENCODER SUPPORTS
H.264/H.265/AVC

The BG-STREAM-E HDMI to IP/UVC is a compact and efficient video converter that provides a seamless connection between HDMI inputs and IP or USB 3.0 UVC outputs. This device is ideal for high-definition video streaming and recording, offering robust features such as hardware compression, real-time recording, and support for multiple streaming protocols.

VERSATILE CONNECTIONS OPTIONS

HDMI, USB 3.0, and IP connections, including support for Dante AV-H and NDI HX

FHD HIGH-QUALITY VIDEO PROCESSING

Capable of resolutions up to 1920x1080p at 60/50fps

EXTENSIVE PROTOCOL SUPPORT

Compatible with RTSP, RTMP, HLS, TS, SRT, NDI HX, and Dante AV-H

Dante®



BG-STREAM-E - This device is Dante AV-H Ready, meaning it includes the necessary integration to support Audinate's Dante AV-H software-based video-over-IP protocol.



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NDI HX3



BG-STREAM-NE - This device supports NDI HX3. Network Device Interface (NDI) is a high performance AV over IP standard that allows anyone to use real time, ultra low latency video on existing IP video networks.



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BG-STREAM-DE / BG-STREAM-NDE
1 CHANNEL SDI/HDMI ENCODER/DECODER/
RECORDER WITH AUDIO/USB 3.0 FOR STORAGE

The BG-STREAM-DE and BG-STREAM-NDE are powerful video and audio streaming decoding/encoding solutions designed for both professional and personal use. These all-in-one devices support 1x HDMI 2.0 or 1x SDI input and loop-through, with an additional HDMI 2.0 output for seamless video integration. It also features a 3.5mm analog audio input for audio embedding and a 3.5mm analog audio output for audio de-embedding, making it a comprehensive tool for high-quality media production and streaming.



VERSATILE CONNECTIONS
HDMI 2.0 & SDI inputs; HDMI 2.0 (PGM), HDMI & SDI (Loop-through) outputs



COMPREHENSIVE AUDIO
3.5mm analog input & output



RECORDING & STREAMING
1080p60 (MP4, TS, MOV); supports NDI (specific model only), Dante AV-H (specific model only), RTSP, RTMP, HLS, SRT, TS



BEST OF SHOW AT IBC 2025 - SOUND & VIDEO CONTRACTOR



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BG-STREAM-DE - This device is Dante AV-H Ready, meaning it includes the necessary integration to support Audinate's Dante AV-H software-based video-over-IP protocol.



BG-STREAM-NDE - This device supports NDI|HX3. Network Device Interface (NDI) is a high performance AV over IP standard that allows anyone to use real time, ultra low latency video on existing IP video networks.



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BG-HAVS
1080P H.264/265 HDMI VIDEO AND AUDIO
STREAMING ENCODER

The BG-HAVS is a single-channel stream encoder that takes a HDMI input/source and converts it to an IP video stream that can be recorded to a NVR, PC, or broadcast to streaming platforms like YouTube, Twitch, or Facebook.

The BG-HAVS can transmit a maximum resolution of 1080p@60Hz. It simultaneously transmits a sub-stream with a maximum resolution of 720p. This allows a second low-bandwidth stream to be transmitted, providing the ability to stream to multiple platforms at once to reach a broader audience.



HDMI
1 x HDMI input, 1 x HDMI loop out



AUDIO
1 x 3.5 mm analog audio input



DIRECT STREAMING
Stream directly from the device without the need of hooking up a computer



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BZBGEAR AWARDS

BZBGEAR takes pride in its portfolio of award-winning products, recognized at numerous prestigious trade show events. These accolades reflect the innovation, quality, and performance that define our solutions. Explore what sets our award-winning products apart and discover why professionals worldwide trust BZBGEAR for their AV and broadcasting needs!



PRO AV BEST IN MARKET AWARDS 2025



BEST OF SHOW AWARDS AT IBC 2025



BEST OF SHOW AWARDS AT IBC 2025



CE PRO BEST PRODUCT AWARD 2025



BEST OF SHOW AWARDS AT CEDIA 2025



BEST OF SHOW AWARDS AT CEDIA 2025



BEST OF SHOW AWARDS AT INFOCOMM 2025



COMMERCIAL INTEGRATOR BEST AWARDS 2025



2025 SCN STELLAR SERVICE AWARDS



TOP NEW TECHNOLOGY (TNT) AWARD 2025



BEST OF SHOW AT ISE 2025



SVC INNOVATIVE PRODUCTS: READERS' CHOICE 2024



MEDIA & ENTERTAINMENT: BEST IN MARKET 2024 AWARDS



PRO AV BEST IN MARKET AWARDS 2024



BEST OF SHOW - IBC2024



BEST OF SHOW - CEDIA 2024

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