

Catalog 2025

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.

-  **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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on our website

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

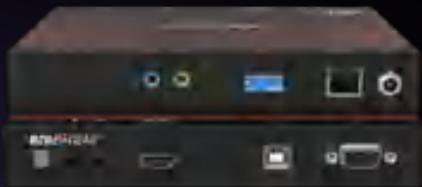



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BG-IPGEAR-PRO-T
 4K UHD HDMI 2.0 OVER IP MULTICAST
 TRANSMITTER WITH VIDEO WALL/KVM/USB/POE
 SUPPORT



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.



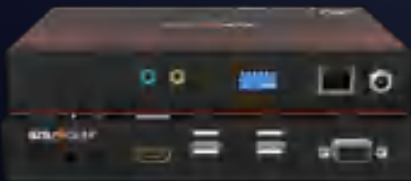

GRAPHICS OVERLAY
 Add your own custom graphics to overlay displayed images or create Menu Boards


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
TRANSCIVER 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 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.



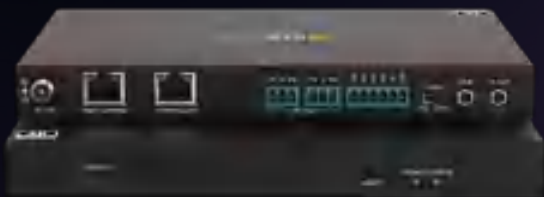
DUAL 1G NETWORK PORTS
Dual network ports with POE function support, isolating control and video networks for optimal performance



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 TRANSCEIVER
WITH SEAMLESS MATRIX SWITCHING/
MULTIVIEW/KVM/USB 3.0/POE SUPPORT

The BG-IPGEAR-XTREME is a high-performance HDMI 2.1 over IP multicast system designed to deliver Ultra-HD 4K@120Hz 4:4:4 video over a Cat.5e network up to 100 meters (330 feet). With support for bi-directional IR, RS-232, and USB 3.1, this versatile solution ensures seamless transmission of high-resolution video and audio while maintaining compatibility with modern AV control systems.

This system is ideal for a variety of applications, including digital signage, healthcare, corporate AV, gaming, and large-scale video broadcasting.

- 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-PRO
8K UHD AV OVER IP MULTICAST TRANSCEIVER
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



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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.



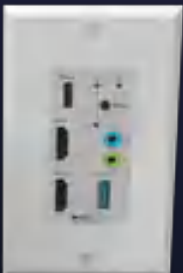
HDMI 2.1 & HDCP 2.3
Delivers 4K@120Hz 4:4:4 with up to 40Gbps (FRL 5), HDR, VRR, ALLM, and eARC/ARC for premium video and audio



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-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 & 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-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




[Check out this item on our website](#)


BG-SAVS

1080P FHD H.264/265 SDI VIDEO AND AUDIO
STREAMING ENCODER

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

The BG-SAVS 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.

 **SDI**
1 x SDI input, 1 x SDI loop out

 **IMAGE OVERLAY**
Image and text overlay to brand your streams

 **CRYSTAL CLEAR IMAGES**
Supports resolutions up to 1080p@60fps



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BG-STREAM-DE

1 CHANNEL SDI/HDMI ENCODER/DECODER/
RECORDER WITH AUDIO/USB 3.0 FOR STORAGE
(DANTE AV-H READY)

The BG-STREAM-DE is a versatile and powerful video and audio streaming decoding/encoding solution designed for both professional and personal use.

 **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, Dante AV-H, RTSP, RTMP, HLS, SRT, TS



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BG-STREAM-D

IP/UVC TO HDMI 2.0 POE DECODER SUPPORTS
H.264/H.265/AVC (DANTE AV-H READY)

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.

 **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



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BG-STREAM-E

HDMI TO IP/UVC POE ENCODER SUPPORTS H.264/
H.265/AVC (DANTE AV-H READY)

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.

 **VERSATILE CONNECTIONS OPTIONS**
HDMI, USB 3.0, and IP connections, including support for Dante AV-H and NDI|HX

 **HIGH-QUALITY VIDEO PROCESSING**
Capable of resolutions up to 1920×1080p at 60/50fps

 **EXTENSIVE PROTOCOL SUPPORT**
Compatible with RTSP, RTMP, HLS, TS, SRT, NDI HX, and Dante AV-H



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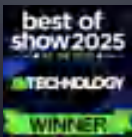


BZBGEAR AWARDS

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!



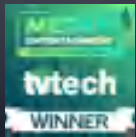
TOP NEW TECHNOLOGY (TNT) AWARD 2025



BEST OF SHOW AT ISE 2025



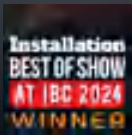
SVC INNOVATIVE PRODUCTS: READERS' CHOICE 2024



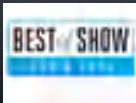
MEDIA & ENTERTAINMENT: BEST IN MARKET 2024 AWARDS



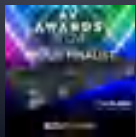
PRO AV BEST IN MARKET AWARDS 2024



BEST OF SHOW - IBC2024



BEST OF SHOW - CEDIA 2024



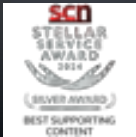
AV AWARDS 2024 - FINALIST



COMMERCIAL INTEGRATOR BEST AWARDS 2024



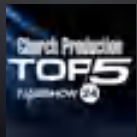
SCN INSTALLATION PRODUCT AWARDS 2024



2024 SCN STELLAR SERVICE AWARDS



BEST OF SHOW - NAB SHOW 2024: SOUND & VIDEO CONTRACTOR WINNER



TOP 5 PRODUCTS FOR CHURCHES FROM NAB 2024



2024 INAVATION AWARDS TECHNOLOGY FINALIST - ISE 2024



BEST OF SHOW - ISE 2024: AV TECHNOLOGY WINNER



BEST OF SHOW - ISE 2024: SOUND & VIDEO CONTRACTOR WINNER

See more BZBGEAR Awards at bzbgear.com/awards



ABOUT BZBGear

Founded in 2019 and headquartered in Sacramento, California, BZBGear® has quickly emerged as a global leader and one-stop manufacturer of professional AV and broadcasting solutions. Dedicated to delivering excellence, BZBGear focuses on combining innovative design, exceptional user experience, and unparalleled lifetime product support.

OUR PRODUCTS

Each solution is meticulously crafted by a team of expert hardware and software engineers to ensure superior quality and cutting-edge functionality. Recognized for its award-winning products and industry-leading support, BZBGear has become the go-to choice for AV and broadcast applications, trusted by professionals worldwide.

WHAT BZBGear HAS TO OFFER

BZBGear delivers comprehensive professional AV and broadcasting solutions, including live streaming and video production products. Our mission extends beyond providing exceptional gear—we pride ourselves on unparalleled customer service and reliable seven-days-a-week technical support. Our team is celebrated for delivering outstanding assistance and ensuring customer satisfaction at every step.

At BZBGear, we prioritize our customers' needs and concerns, offering the highest level of professional support. By fostering relationships built on integrity and trust, we approach every interaction with honesty and fairness, always striving to place ourselves in our clients' shoes.

Our vision is to make cutting-edge AV technology accessible to everyone at a fair price. Because everyone deserves to see, hear, and experience the remarkable advancements of today's AV world

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.

BZBGear WARRANTY

Pro Line Product

5-YEAR WARRANTY

Essential Line Product

3-YEAR WARRANTY

Cables Product

LIFETIME WARRANTY

Learn more about BZBGear at bzbgear.com/company



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