BZBGEAR®
Amplify Your World™

Catalog 2025

AV over IP

Professional AV And Broadcasting Solutions

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 TRANSCEIVER 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

TAA COMPLIANT

Check out this item 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 TRANSCEIVERS
Control up to 1024 BG-VOP-MT transceivers over a wide area

VIDEO MATRIX
View any source on any display

TAA COMPLIANT

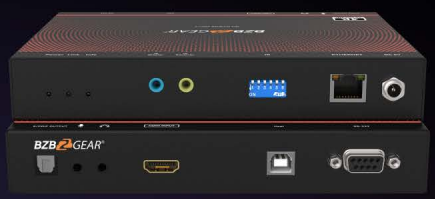
Check out this item on our website

BG-IPGEAR-PRO-T

4K UHD HDMI 2.0 OVER IP MULTICAST TRANSMITTER WITH VIDEO WALL/KVM/USB/POE SUPPORT

TAA COMPLIANT

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

Check out this item on our website

TAA COMPLIANT

Check out this item on our website

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

BG-IPGEAR-PRO-C

SMART CONTROLLER FOR IPGEAR-PRO HDMI OVER IP SERIES

TAA COMPLIANT

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

Check out this item on our website

BG-IPGEAR-ULTRA

4K UHD HDMI 2.0 OVER IP MULTICAST TRANSCEIVER 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

TAA COMPLIANT

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

BEST OF SHOW AWARDS AT IBC2024 - PUBLICATION: INSTALATION

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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

TAA COMPLIANT

Check out this item on our website

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@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

Check out this item on our website

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

Check out this item on our website

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.

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

Check out this item on our website

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

Check out this item on our website

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.

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

Check out this item on our website

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.

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.

NDI|HX3

Check out this item on our website

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

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

Dante

Check out this item on our website

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.

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.

NDI|HX3

Check out this item on our website

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

Dante

Check out this item on our website

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.

NDI HX3

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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®
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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!

BEST OF SHOW AWARDS AT INFOCOMM 2025

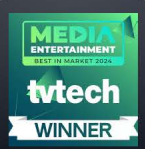
COMMERCIAL INTEGRATOR BEST AWARDS 2025

2025 SCN STELLAR SERVICE AWARDS

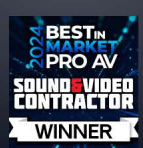
TOP NEW TECHNOLOGY (TNT) AWARD 2025

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

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

See more BZBGEAR Awards at bzbgear.com/awards

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2025

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