



# BG-IPGEAR-PRO

## AV over IP System

BG-IPGEAR-PRO-T (Transmitter)

BG-IPGEAR-PRO-R (Receiver)

BG-IPGEAR-PRO-C (Smart Controller)

**4K60 UHD HDMI 2.0 over IP Multicast Transmitter/Receiver w/ Video Wall, KVM, PoE support and Smart Controller**

The BG-IPGEAR-PRO is a high-performance transmitter/encoder that is an essential component in the BZBGEAR IPGEAR-PRO AV over IP system. It provides outstanding 4K 60Hz UHD HDMI video transmission over IP networks, and also has support for Power over Ethernet (PoE). This system is ideal for digital signage, video walls, and video distribution in commercial installations.

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.



## FEATURES

- TAA compliant product
- Delivers power directly over an ethernet cable
- Output supports resolutions up to 4K2K@60Hz
- HDMI 2.0a and HDCP 2.2 compliant
- Control IR sources or display devices remotely with IR pass-through
- Spread a source across multiple displays
- View any source on any display
- Flexible and scalable UHD video broadcasting
- Up to 1,023 groups multi-casting
- 180° and 270° clockwise image rotation
- Latency: 2 frames (33 ms) maximum
- Easy dip switch matching for multi-casting group configuration
- Wall mountable housing for robust installations
- 1 to 1, 1 to many, and multi-casting broadcasting architecture
- Free broadcasting management software

**BG-IPGEAR-PRO-T**  
Multicast Transmitter



**BG-IPGEAR-PRO-R**  
Multicast Receiver



**BG-IPGEAR-PRO-C**  
Smart Controller



## Technical

**HDMI compliance:** HDMI

**HDCP compliance:** Yes

**Video support:** Up to 4K2K@60 (4:4:4 8bits)

**Latency:** 2 frames (33 ms) maximum

**HDMI over UTP transmission [24-bit]:**

Ultra HD (4K2K60) - 120m (396ft) [CAT.X]

**Audio support:**

Surround sound (up to 7.1ch) or stereo digital audio

**Input TMDS signal:** 1.2 Volts [peak-to-peak]

**Input DDC signal:** 5 Volts [peak-to-peak, TTL]

**ESD protection:** Human body model - +/-15kV

[air-gap discharge] & 38kV [contact discharge]

**IR pass-thru:** Full-duplex bi-directional

**RS-232 support:** Yes

**Input:**

BG-IPGEAR-PRO-T: 1x HDMI + 2x 3.5mm + 2x USB

BG-IPGEAR-PRO-R: 1x RJ45 + 1x HDMI + S/PDIF

**Output:**

BG-IPGEAR-PRO-T: 1x RJ45 + 1x S/PDIF + 2x 3.5mm

BG-IPGEAR-PRO-R: 2x 3.5mm + 5x USB

**In / Out:** 1x DIN9

**HDMI source control:** Controllable via IR pass-through from RX to TX and from TX to RX with IR extenders

**IR remote control:** Electro-optical characteristics:

t = 25° / Carrier frequency: 20-60kHz

**HDMI connector:** Type A [19-pin female]

**Min DIN connector:** DIN-9

**RJ45 connector:** WE/SS 8P8C with 2 LED indicators

**3.5mm connector:** Analog audio / IR blaster & IR receiver

## Mechanical

**Housing:** Metal Enclosure

**Dimensions [L x W x H]:**

BG-IPGEAR-PRO-T: 7.6" x 5.2" x 1.1" [194 x 133 x 28 mm]

BG-IPGEAR-PRO-R: 7.6" x 5.2" x 1.1" [194 x 133 x 28 mm]

**Weight:**

BG-IPGEAR-PRO-T: 1.5 lbs [663g]

BG-IPGEAR-PRO-R: 1.4 lbs [644g]

**Fixedness:** Wall-mounting case with screws

**Power supply:** 5V DC / 48V POE

**Power Consumption:**

BG-IPGEAR-PRO-T: 6 Watts [max]

BG-IPGEAR-PRO-R: 7 Watts [max]

**Operation Temperature:** 32-104°F / 0-40°C

**Storage Temperature:** -4-140°F / -20-60°C

**Relative Humidity:** 20-90% RH [no condensation]

## BG-IPGEAR-PRO-C

**Role of usage:** Smart Controller

**Input:** 1x RJ-45

**Output:** 1x HDMI

**HDMI connector:** Type A [19-pin female]

**RJ-45 connector:** WE/SS 8P8C

**Housing:** Metal enclosure

**Dimensions Model [L x W x H]:** 3.5" x 3" x 1.1" [90 x 78 x 29mm]

**Dimensions Package [L x W x H]:** 7.8" x 5.4" x 2.9" [198 x 137 x 74mm]

**Weight Model:** 0.4 lbs [222g]

**Weight Package:** 1 lbs [493g]

**Fixedness:** Rack-mount with ears

**Power supply:** 5V DC

**Power consumption:** 3.5 Watts [max]

**Operation temperature:** 32-104°F / 0-40°C

**Storage temperature:** -4-140°F / -20-60°C

**Relative humidity:** 20-90% RH [no condensation]

## Industry-Leading Warranty & Support

BZBGear Pro AV products and Cameras come with a three-year warranty. An extended two-year warranty is available for our Cameras upon registration for a total of five years. We pride ourselves in our Customer Service and seven-days-a-week Tech Support.

**LIFETIME  
PRODUCT SUPPORT**

PRO AV	CAMERAS
<b>3</b> YEAR WARRANTY	<b>5</b> YEAR WARRANTY