



## **BG-UHD-18GFE**

**4K HDMI USB KVM Extender Kit Over fiber w/HDR, 2-Way IR & RS-232**

The BG-UHD-18GFE is a 4K HDMI KVM extender capable of transmitting uncompressed 4K@60Hz 4:4:4 HDMI video with USB 2.0 at distances up to 6.25 miles (10km) over single-mode fiber optic cabling. This TAA-compliant device makes it possible to operate a secure remote workstation from long distances, making it ideally suited for use in large campuses, government buildings, and military installations.

Operating over fiber optic cable and supporting 18Gbps HDMI transmission rates, the BG-UHD-18GFE provides lossless video combined with latency-free control.

### **FEATURES**

- Supports 4K@60 HDR (4:4:4)
- Single-mode SFP connection provides pure signal over extreme distances
- Connect 2 remote USB devices
- Supports RS-232 passthrough to extend control signals
- Full 2-way IR passthrough
- Extends HDMI up to 6.25 miles (10km)
- Supports Keyboard & mouse signal transmission
- Link LED indicator light
- Supports HDCP2.2
- Supports full frequency IR signal from 20KHz to 60KHz



# Specifications

## Technical

HDMI compliance: HDMI 2.0a

HDCP compliance: HDCP 2.2

Video bandwidth: Single link 594MHz [18Gbps]

Video support: HDR 4K2K@60 (4:2:0 10bits) / 4K2K@60 (4:4:4 8bits)

HDMI over fiber: Yes

Audio support: Surround sound [up to 7.1ch] or stereo digital audio

Equalization: Auto

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

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

ESD protection: [1] Human body model — 319kV [air-gap discharge] & 312kV [contact discharge]

PCB stack-up: 6-layer board [impedance control — differential 100ff; single 50ff]

IR pass-thru: Bi-directional

RS-232 support: Yes

Input: TX: 1x HDMI 1x 3.5mm; RX: 1x fiber 1x 3.5mm

Output: TX: 1x fiber 1x 3.5mm; RX: 1x HDMI 1x 3.5mm

In / Out: 1x RS-232; 1x RS-232

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

HDMI connector: Type A [19-pin female]

3.5mm connector: IR receiver / IR blaster

## Mechanical

Housing: Metal enclosure

Fixedness: Wall-mounting case with screws

Power supply: 12V2A

Power consumption: Max 10W

Operation temperature: -32-122°F / 0-50°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.

