

# BG-EXUF

USB 3.1/2.0/1.1 Fiber Extender

## User Manual







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## Statement

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Please read these instructions carefully before connecting, operating, or configuring this product. Please save this manual for future reference.

## Safety Precaution

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- To prevent damaging this product, avoid heavy pressure, strong vibration, or immersion during transportation, storage, and installation.
- The housing of this product is made of organic materials. Do not expose to any liquid, gas, or solids which may corrode the shell.
- Do not expose the product to rain or moisture.
- To prevent the risk of electric shock, do not open the case. Installation and maintenance should only be carried out by qualified technicians.
- Do not use the product beyond the specified temperature, humidity, or power supply specifications.
- This product does not contain parts that can be maintained or repaired by users. Damage caused by dismantling the product without authorization from BZBGear is not covered under the warranty policy.
- Installation and use of this product must strictly comply with local electrical safety standards.



## Introduction

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The BZBGear BG-EXUF is a 4-port fiber optic USB 3.1/2.0/1.1 extender that extends USB 3.1 up to 328ft (100m) and USB 2.0/1.1 up to 6.2mi (10Km) over single-mode or multi-mode fiber optic cabling. Each port supports data transfer speeds up to 5Gbps (USB 3.1). The advanced optical fiber transmission technology eliminates electromagnetic interference.

Installation and use of the BG-EXUF is effortless with four mounting holes built into its sturdy metal chassis and requires no drivers to be installed on connected devices.

## Features

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- Integrated USB 3.1 hub with four ports
- Compatible with USB 3.1/2.0/1.1
- USB 3.1 Gen1 data transfer rate: 5Gbps
- USB 2.0 data transfer rate: 480Mbps
- USB 1.1 data transfer rate: 12Mbps
- Converts USB 3.1 to optical fiber without latency
- Transmits audio and video signals over single-mode or OM3 multi-mode fiber
- 1x LC Fiber connector
- External DC 12V power supply
- Anti-electromagnetic interference

## Packing List

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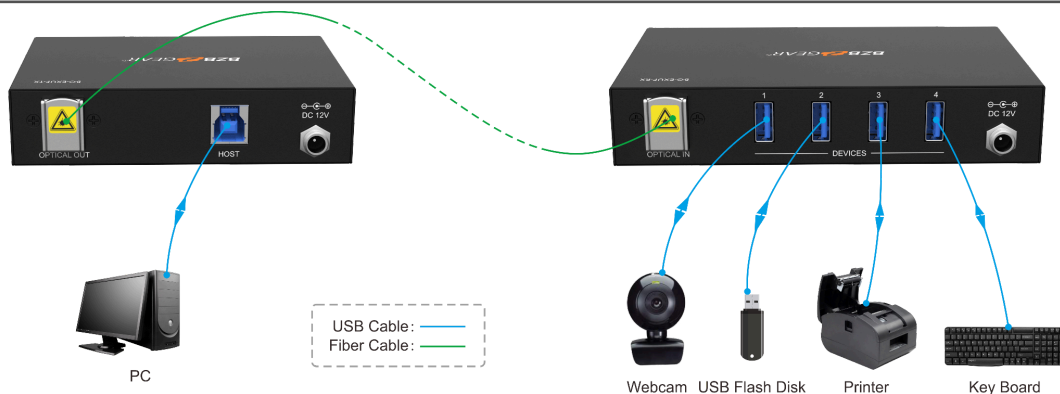
- |                                 |                         |
|---------------------------------|-------------------------|
| ● 1 x Transmitter               | ● 4 x Mounting Screws   |
| ● 1 x Receiver                  | ● 8 x Silicone Cushions |
| ● 2 x Power Adapter (12V DC 1A) | ● 1 x User Manual       |
| ● 4 x Mounting Ears             |                         |



# Specifications

| Distance                 |   |
|--------------------------|---|
| <b>USB 3.1 Gen1</b>      | Single-mode fiber or OM3 multi-mode fiber:<br>Non-real-time transmission: 300m<br>Real-time transmission: 100m    |
| <b>USB 2.0/1.1</b>       | Single-mode fiber:<br>Non-real-time transmission:10km<br>Real-time transmission:6km<br>OM3 multi-mode fiber: 500m |
| Data Rate                |   |
| USB 3.1 GEN1             | 5Gbps   |
| USB 2.0                  | 480Mbps   |
| USB 1.1                  | 12Mbps  |
| Transmitter (BG-EXUF-TX) |   |
| USB Interface            | 1x USB 3.0 type-B male connector  |
| Fiber Interface          | 1x LC   |
| Dimensions               | 135mm x 75mm x 26mm   |
| Installation             | 4 mounting holes for fixing   |
| Enclosure Material:      | Metal   |
| Power Supply             | External DC 12V   |
| Receiver (BG-EXUF-RX)    |   |
| USB Interface            | 4x USB 3.0 type-A female connector  |
| Fiber Interface          | 1x LC   |
| Dimensions               | 160mm x 85mm x 26mm   |
| Installation             | 4 mounting holes for fixing   |
| Enclosure Material:      | Metal   |
| Power Supply             | External DC 12V   |
| Environment              |   |
| Operating Temperature    | -10 to +60°C (+50° to +140°F)   |
| Storage Temperature      | -45 to +85°C (-49° to +185°F)   |
| Operating Humidity       | 20% to 80% relative humidity, non-condensing  |
| Storage Humidity         | 10% to 80% relative humidity  |

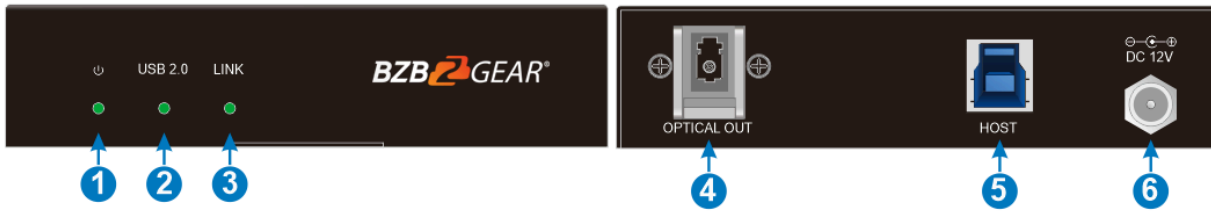
# Application Example





# Operation Controls and Functions

## Transmitter Panel



| No. | Name        | Function Description  |
|-----|-------------|---|
| 1   | Power LED   | The green LED will illuminate when connected to DC power.   |
| 2   | USB 2.0:    | The LED light will illuminate when the transmitter is connected to a USB 2.0 computer. If connected to a USB 3.0 computer, the LED light will be off.<br><b>Note:</b> When the transmitter is connected to a USB 2.0 computer, the receiver device can only be connected to one camera. |
| 3   | LINK        | The green LED will illuminate when the transmitter and receiver have a good connection status.  |
| 4   | Optical OUT | Connect to "OPTICAL IN" port on receiver via fiber cable.   |
| 5   | HOST        | Connect to the host computer device.  |
| 6   | DC 12V      | Connect to the DC12V power adapter.   |

## Receiver Panel



| No. | Name       | Function Description   |
|-----|------------|--|
| 1   | Power LED  | The green LED will illuminate when connected to DC power.                                      |
| 2   | Devices    | The green LED will illuminate when connected to a KVM device.                                  |
| 3   | LINK       | The green LED will illuminate when the transmitter and receiver have a good connection status. |
| 4   | RESET      | Press and hold this button for 3 seconds to restore factory defaults.                          |
| 5   | Optical IN | Connect to the "OPTICAL OUT" on the transmitter using a fiber cable.                           |
| 6   | Devices    | Connect to KVM devices.  |
| 7   | DC 12V     | Connect to the DC12V power adapter.  |



## Tech Support

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Have technical questions? We may have answered them already!

Please visit BZBGear's support page ([bzbgear.com/support](https://bzbgear.com/support)) for helpful information and tips regarding our products. Here you will find our Knowledge Base ([bzbgear.com/knowledge-base](https://bzbgear.com/knowledge-base)) with detailed tutorials, quick start guides, and step-by-step troubleshooting instructions. Or explore our YouTube channel, BZB TV ([youtube.com/c/BZBTVchannel](https://youtube.com/c/BZBTVchannel)), for help setting up, configuring, and other helpful how-to videos about our gear.

Need more in-depth support? Connect with one of our technical specialists directly:

**Phone**  
1.888.499.9906

**Email**  
support@bzbgear.com

**Live Chat**  
bzbgear.com

## Limited Product Warranty Terms

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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](https://bzbgear.com/warranty).

For questions, please call 1.888.499.9906 or email support@bzbgear.com.

## Mission Statement

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BZBGear is a breakthrough manufacturer of high-quality, innovative audiovisual equipment ranging from AVoIP, professional broadcasting, conferencing, home theater, to live streaming solutions. We pride ourselves on unparalleled customer support and services. Our team offers system design consultation, and highly reviewed technical support for all the products in our catalog. BZBGear delivers quality products designed with users in mind.

## Copyright

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