

# BG-USB-LR100

Direktronik Art 20124462

2-Port USB 2.0 Extender Over a Single CAT5E/6/7 Cable up to 330ft

## User Manual





***DIREKTRONIK***

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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.
- Unplug this device during lightning storms
- Clean only with a soft dry microfiber cloth.
- 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.
- Only use accessories specified by the manufacture
- Product specifications may be subject to technical upgrades without further notice
- Do not hot plug when it is working.



## Introduction

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The BG-USB-LR100 USB 2.0 extender can extend USB signals up to 328ft (100m) via a Cat 5e/6 cable. Connect the transmitter to a PC and the receiver to USB devices via the two USB ports such as a flash drive or printer. The transmitter and receiver support PoC (Power over Cable) meaning only one of the units needs to be connected to a power supply. Simple plug and play operation means there are no drivers or software installation necessary.

## Features

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- USB 2.0 protocol, transmission rate up to 480Mbps
- Extend distance up to 328ft (100m) via CAT 5e/6 cable
- One USB-B port input on the transmitter
- Two USB 2.0 ports output on the receiver
- PoC functionality means that only one unit, either the transmitter or receiver, is connected to a powered supply.
- Simple plug and play, no drivers or software installation required
- Compact design for easy and flexible installation

## Packing List

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- |  |                                   |
|--|-----------------------------------|
| • 1x USB 2.0 Extender (Transmitter)                            | • 1x 12V/1A Locking Power Adapter |
| • 1x USB 2.0 Extender (Receiver)                               | • 1x User Manual                  |
| • 1x USB cable (USB-B male head to USB-A male head, one meter) | • 1x Quick Start Guide            |



## Technical Specifications

Technical	
USB protocol	USB 2.0
Transmission rate	Up to 480Mbps
Transmission distance	100M (328ft)
ESD Protection	Human-body Model: $\pm 8\text{kV}$ (Air-gap discharge), $\pm 4\text{kV}$ (Contact discharge)
Connections	
Transmitter	Input port: 1xUSB [USB-B, female] Output port: 1xCAT [RJ45, female]
Receiver	Input port: 1xCAT [RJ45, female] Output port: 2xUSB [USB-A, female]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	Transmitter / Receiver: 3.2" (W) x 1.9" (D) x 0.8" (H) [82mm (W) x 49mm (D) x 20mm (H)]
Weight	Transmitter / Receiver: 0.22lbs [100g]
Power Supply	Input: AC100~240V 50/60Hz, Output: DC 12V/1A
Power Consumption	Transmitter: 1.3W, Receiver: 2.3W
Operating Temperature	32°F ~ 104°F / 0°C ~ 40°C
Storage Temperature	-4°F ~ 140°F / -20°C ~ 60°C
Relative Humidity	20~90% RH (non-condensing)



## Operation Controls and Functions

### Transmitter Panel



1. **USB port:** Use a USB-B male to USB-A male cable to connect to the USB port of a PC. **Note:** The PC can control USB ports device of the receiver.
2. **POWER LED:** Power LED indicator. The LED will illuminate when transmitter is connected to/provided power.
3. **DC 12V:** Connect the DC 12V/1A power supply into the unit and connect the adapter to an AC outlet.
4. **CAT port:** The CAT port is connected to the receiver's CAT port by CAT 5e/6 cable.

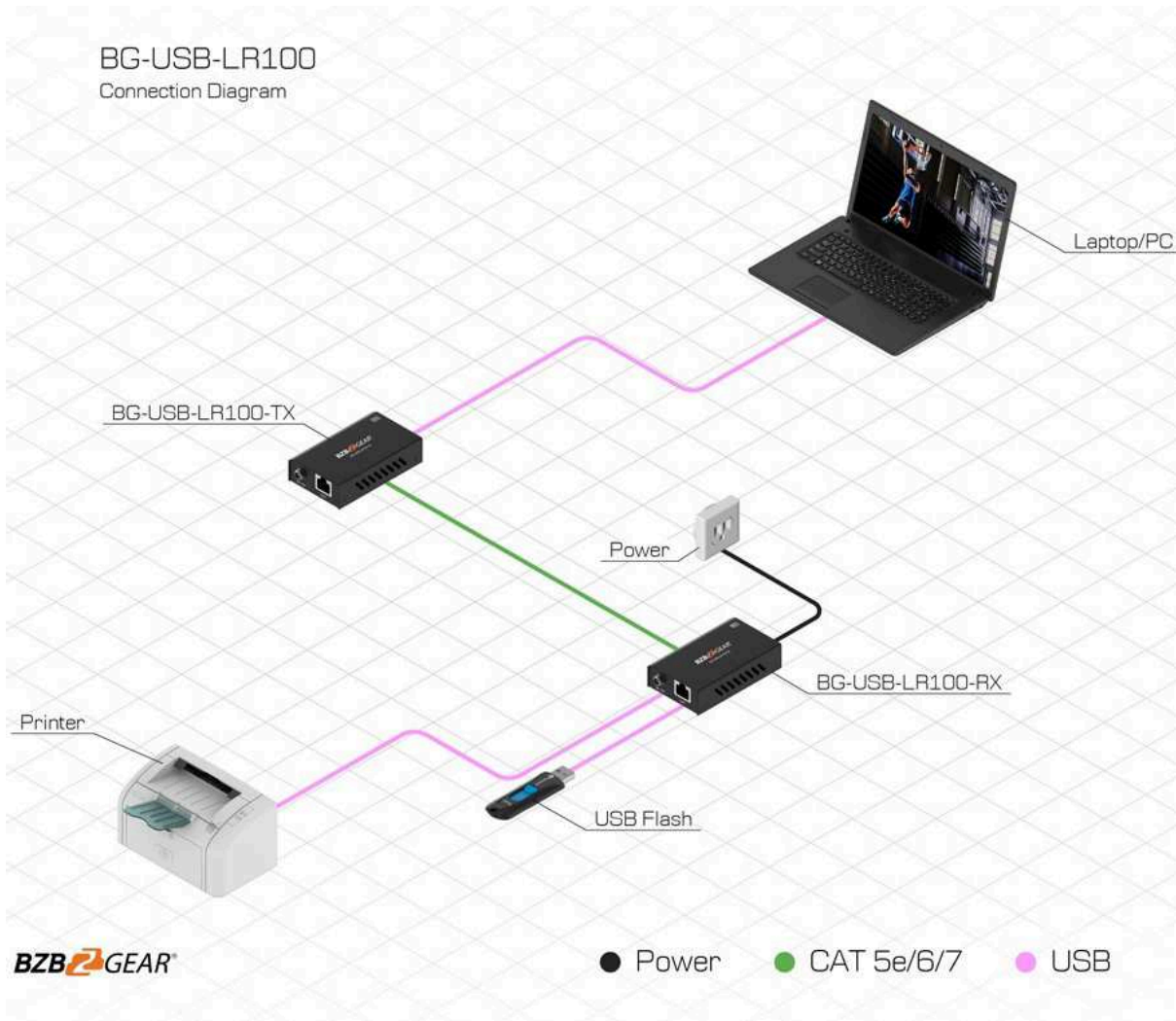
### Receiver Panel



5. **USB 2.0 port:** Connect to a device with a USB port such as a printer or flash drive.
6. **POWER LED:** Power LED indicator. The LED will illuminate when the receiver is connected to/provided power.
7. **DC 12V:** Connect the 12V/1A DC power supply into the unit and connect the adapter to an AC outlet.
8. **CAT port:** The CAT port is connected transmitter's CAT port by CAT 5e/6 cable.



## Application Example







## 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



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## 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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