



BG-HDKVM-50

**HDMI/USB KVM Extender
Over Cat5e/6**



User Manual

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

The BG-HDKVM-50 HDMI/USB KVM Extender can extend high definition HDMI and USB signals up to 164ft/50m over a single Cat5e/6 cable with zero latency. It supports HDMI 1.4b and USB 2.0 standards. Two-way power over cat5e/6/7 function allows either TX or RX be powered by a single 12V@1A power supply. It's an ideal product for cyber bar and KVM extender markets.

2. Features

- ✧ HDMI 1.4b, HDCP 1.4 and DVI compliant
- ✧ Video resolutions up to 1080p@60Hz
- ✧ HDMI audio pass through
- ✧ Zero latency and uncompressed transmission technology
- ✧ USB 2.0 Full-speed transmission and routing
- ✧ 12V power over cat5e/6/7 function supported

3. Package Contents

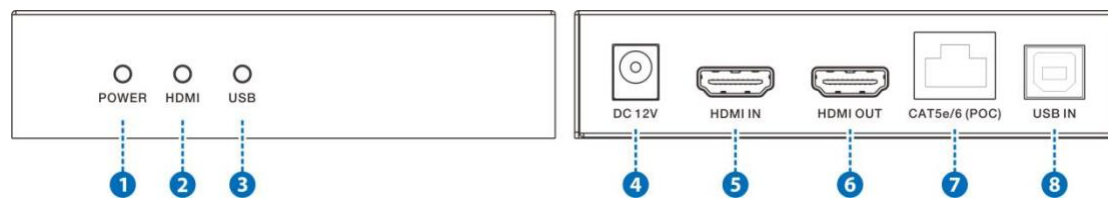
- ✧ 1 x Transmitter
- ✧ 1 x Receiver
- ✧ 1 x User Manual
- ✧ 1 x DC 12V/1A Power Adapter

4. Specifications

Technical	
HDMI Compliance	HDMI 1.4b
HDCP Compliance	HDCP 1.4
USB Compliance	USB 2.0
Video Resolutions	720x576p50,720x480p60,640x480p60/75,800x600p60/75, 1024x768p60/75,1280x1024p60,1680x1050p60,1280x720p25/30/ 50/60,1920x1080p25/30/50/60
Transmission Range:	HD [1080p@60Hz 24-bit color] up to 50m [164ft]
Color Depth	8-bit
HDMI Audio Formats	LPCM 2/5.1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+
ESD Protection	Human body model — ±8kV (air-gap discharge) & ±4kV (contact discharge)
Connections	
Transmitter	
Input	1x HDMI Type A [19-pin female] 1x USB-B [USB B type]
Output	1x HDMI Type A [19-pin female] 1x CAT [RJ45]
Receiver	
Input	1x CAT [RJ45]
Output	1x HDMI Type A [19-pin female] 2x USB-A [USB A type]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	109mm [W]x76.5mm [D]x25.4mm [H]
Weight	TX:213g RX:212g
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 12V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	TX:1.92W (Max) RX:1.68W (Max)
Operation Temperature	32 - 104°F / 0 - 40°C
Storage temperature	-4 - 140°F / -20 - 60°C
Relative Humidity	20 - 90% RH (no condensation)

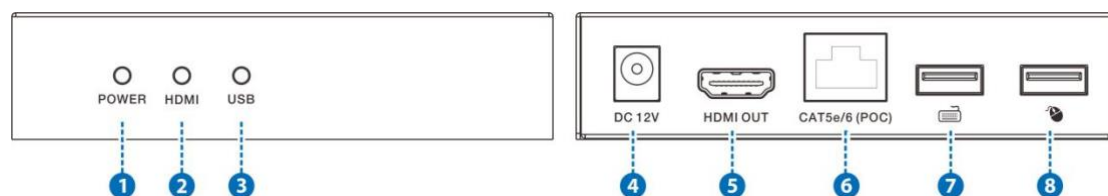
5. Operation Controls and Functions

5.1 Transmitter Panel



- 1) **POWER:** System power indicator.
- 2) **HDMI:** Input HDMI signal indicator LED. On means there is an active signal.
- 3) **USB:** USB status indicator LED, no USB signal being transmitted will show slow flashing, when USB signal being transmitted will show quick flashing.
- 4) **DC 12V:** Connect to a 12V DC power supply. No needs to connect another power supply if receiver is powered by an external 12V DC power supply. power over cat5e/6/7 function allows you to power on Tx or Rx on any side)
- 5) **HDMI IN:** Connect to HDMI source device such as Blue-ray player or Set-Top box with an HDMI cable.
- 6) **HDMI OUT:** Connect to HDMI display device for local display.
- 7) **CAT5e/6** Connect to receiver box CAT port through a CAT5e/6 cable length up to 164ft/50m.
- 8) **USB IN:** Connect to PC USB host port.

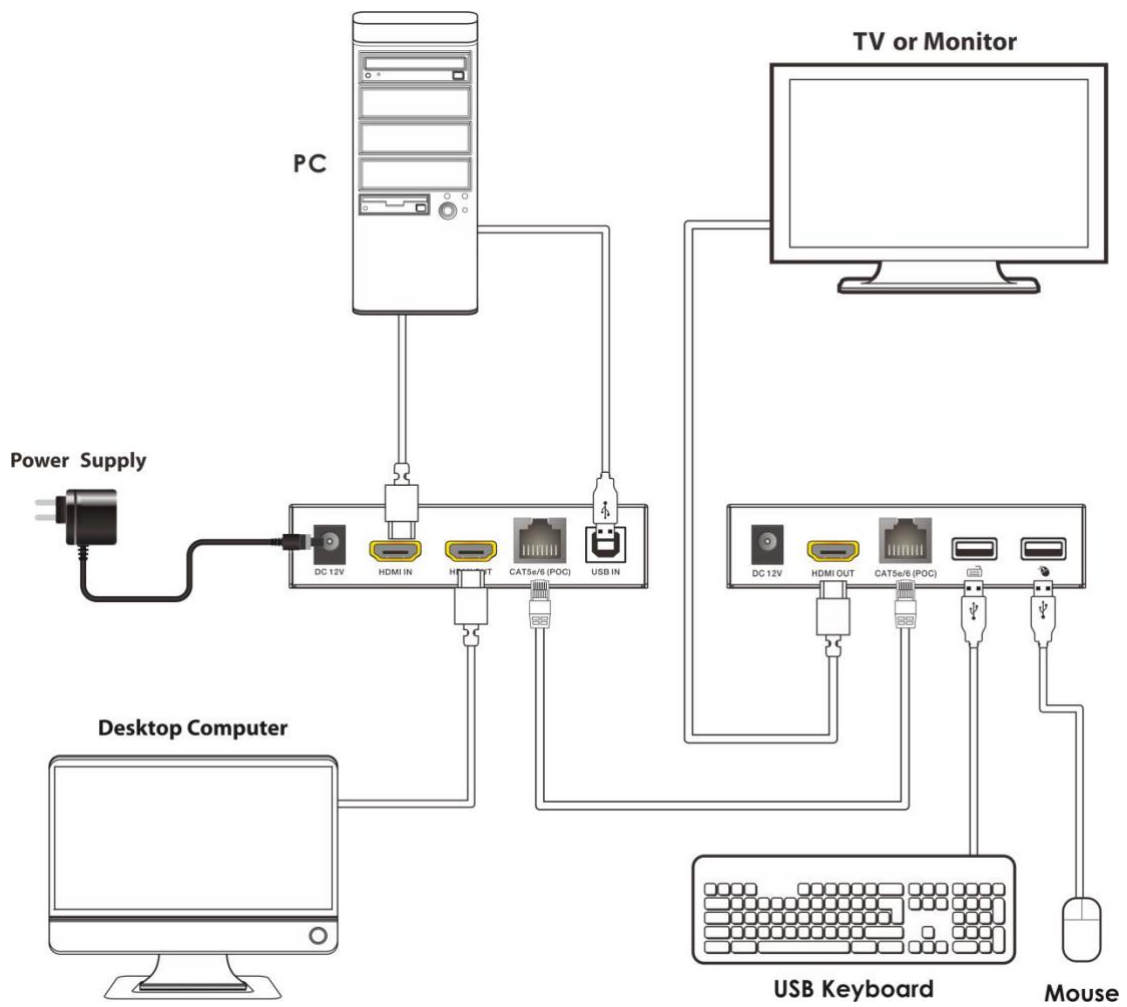
5.2 Receiver Panel



- 1) **POWER:** System power indicator.
- 2) **HDMI:** HDMI output connection indicator LED. On means there is an active HDMI display device be connected.

- 3) **USB:** USB status indicator LED, no USB signal being transmitted will show slow flashing, when USB signal being transmitted shows quick flashing.
- 4) **DC 12V:** Connect to a 12V DC power supply. No needs to connect another power supply if your transmitter box is powered by an external 12V DC power supply. (power over cat5e/6/7 function allows you to power on Tx or Rx on any side)
- 5) **HDMI OUT:** Connect to HDMI display device.
- 6) **CAT5e/6:** Connect to transmitter box CAT port through a CAT5e/6 cable length up to 164ft/50m.
- 7) **USB Keyboard:** Connect to USB keyboard or a USB slave device;
- 8) **USB Mouse:** Connect to USB mouse or a USB slave device;

6. Connection Diagram



7. Second Year Assurance

BZB Gear wants to assure you peace of mind. We're so confident in the quality of our products that along with the manufacturer's one-year limited warranty, we are offering free second-year warranty coverage upon registration*!

Taking advantage of this program is simple, just follow the steps below:

1. Register your product within 90 days of purchase by visiting BZBGear.com/warranty.
2. Complete the registration form. Provide all necessary proof of purchase details, including serial number and a copy of your sales receipt.

For questions, please call 1.888.660.2962 or email support@bzbgear.com.

For complete warranty information, please visit BZBGear.com/warranty or scan the QR code below.



*Terms and conditions apply. Registration is required.

8. Mission Statement

BZB Gear manifests from the competitive nature of the audiovisual industry to innovate while keeping the customer in mind. AV solutions can cost a pretty penny, and new technology only adds to it. We believe everyone deserves to see, hear, and feel the advancements made in today's AV world without having to break the bank. BZB Gear is the solution for small to medium-sized applications requiring the latest professional products in AV.

We live in a DIY era where resources are abundant on the internet. With that in mind, our team offers system design consultation and expert tech support seven days a week for the products in our BZB Gear catalog. You'll notice comparably lower prices with BZB Gear solutions, but the quality of the products is on par with the top brands in the industry. The unparalleled support from our team is our way of showing we care for every one of our customers. Whether you're an integrator, home theater enthusiast, or a do-it-yourselfer, BZB Gear offers the solutions to allow you to focus on your project and not your budget.