

**Vivolink VL120007**

# Vivolink HDBaseT VL120007 70m 4K HDMI Extender Kit User Manual

Model: VL120007

## 1. INTRODUCTION

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This user manual provides detailed instructions for the installation, operation, and maintenance of the Vivolink HDBaseT VL120007 70m 4K HDMI Extender Kit. This kit is designed to extend 4K HDMI signals up to 70 meters over a single Cat5e/6 cable, supporting bi-directional IR and CEC.

The Vivolink VL120007 is a premium quality product, ensuring reliable and high-performance signal transmission for various professional and home theater applications.

## 2. PRODUCT OVERVIEW

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The Vivolink VL120007 kit consists of a Transmitter unit and a Receiver unit. Both units are compact and designed for easy integration into existing setups.



Figure 2.1: Vivolink HDBaseT VL120007 Transmitter (top) and Receiver (bottom) units. The Transmitter unit features HDMI IN, IR IN, IR OUT, DC 12V power input, and TP-OUT (HDBaseT) ports. The Receiver unit features HDMI OUT, IR IN, IR OUT, and TP-IN (HDBaseT) ports.

## 2.1. Key Features

- Extends 4K HDMI signals up to 70 meters (230 feet) over a single Cat5e/6 cable.
- Supports HDMI 1.4 and HDCP 2.2 compliant.
- Bi-directional IR pass-through for controlling source or display devices.
- Supports CEC (Consumer Electronics Control) functionality.
- Compact design for easy installation.
- Includes one Power Supply Unit (PSU).

## 3. PACKAGE CONTENTS

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Please verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, please contact your vendor.

- 1x Vivolink HDBaseT Transmitter Unit (VL120007-TX)
- 1x Vivolink HDBaseT Receiver Unit (VL120007-RX)
- 1x 12V DC Power Supply Unit
- 1x IR Blaster Cable
- 1x IR Receiver Cable
- 1x User Manual (this document)

## 4. SETUP AND INSTALLATION

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Before beginning installation, ensure all devices are powered off and disconnected from their power sources.

### 4.1. Connection Diagram

The following diagram illustrates a typical connection setup for the Vivolink VL120007 extender kit.

*(A detailed connection diagram would typically be placed here. For illustration, imagine a diagram showing Source -> Transmitter -> Cat Cable -> Receiver -> Display.)*

### 4.2. Installation Steps

1. Connect an HDMI cable from your source device (e.g., Blu-ray player, media streamer) to the **HDMI IN** port on the **Transmitter** unit.
2. Connect a single Cat5e/6 cable (recommended Cat6 for optimal performance) from the **TP-OUT** port on the **Transmitter** unit to the **TP-IN** port on the **Receiver** unit. Ensure the cable is properly terminated with RJ45 connectors following TIA/EIA-568B wiring standards.
3. Connect an HDMI cable from the **HDMI OUT** port on the **Receiver** unit to your display device (e.g., TV, projector).
4. For IR control, connect the IR Blaster cable to the **IR OUT** port on the unit that will send the IR signal (e.g., Transmitter for controlling source, Receiver for controlling display). Position the IR emitter head directly over the IR sensor of the device to be controlled.
5. Connect the IR Receiver cable to the **IR IN** port on the unit that will receive the IR signal. Position the IR receiver head in a location where it can receive signals from your remote control.
6. Connect the included 12V DC Power Supply Unit to the **DC 12V** port on either the Transmitter or Receiver unit. The system supports Power over Cable (PoC), meaning only one power supply is needed for both units.
7. Power on all connected devices (source, display, and extender units).

## 5. OPERATING INSTRUCTIONS

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Once all connections are made and power is supplied, the Vivolink VL120007 extender kit should automatically establish a connection and transmit the HDMI signal.

## 5.1. LED Indicators

Both the Transmitter and Receiver units feature LED indicators to show their status:

- **Power LED:** Illuminates when the unit is receiving power.
- **Link LED:** Illuminates when a stable HDBaseT link is established between the Transmitter and Receiver units.
- **Data LED:** May flash to indicate active HDMI data transmission.

## 5.2. IR Control

The bi-directional IR pass-through allows you to control your source device from the display location or your display device from the source location. Ensure the IR Blaster and IR Receiver cables are correctly positioned.

## 5.3. CEC Functionality

The extender kit supports CEC (Consumer Electronics Control), allowing compatible devices to communicate and control each other over the HDMI connection. This feature typically works automatically if supported by your source and display devices.

# 6. MAINTENANCE

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The Vivolink VL120007 extender kit requires minimal maintenance.

- Keep the units in a cool, dry place, away from direct sunlight, heat sources, and excessive moisture.
- Clean the units with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure proper ventilation around the units to prevent overheating.
- Regularly check cable connections to ensure they are secure.

# 7. TROUBLESHOOTING

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If you encounter issues with your Vivolink VL120007 extender kit, please refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No video/audio output.	<ul style="list-style-type: none"> <li>Loose cable connections.</li> <li>Incorrect power supply.</li> <li>HDBaseT link not established.</li> <li>Incompatible HDMI resolution/refresh rate.</li> <li>HDCP issues.</li> </ul>	<ul style="list-style-type: none"> <li>Check all HDMI and Cat5e/6 cable connections. Ensure they are secure.</li> <li>Verify the power supply is correctly connected and providing 12V DC. Check Power LED.</li> <li>Ensure the Link LED is illuminated on both units. If not, check the Cat5e/6 cable for damage or improper termination.</li> <li>Try a lower resolution or refresh rate on the source device.</li> <li>Power cycle all devices (source, extender, display).</li> </ul>
IR control not working.	<ul style="list-style-type: none"> <li>IR Blaster/Receiver cables incorrectly connected.</li> <li>IR emitter/receiver not properly positioned.</li> <li>Interference.</li> </ul>	<ul style="list-style-type: none"> <li>Ensure IR Blaster is connected to IR OUT and IR Receiver to IR IN.</li> <li>Adjust the position of the IR emitter head directly over the device's IR sensor. Ensure the IR receiver head has a clear line of sight to your remote.</li> <li>Minimize direct sunlight or strong ambient light near the IR receiver.</li> </ul>
Intermittent signal or flickering.	<ul style="list-style-type: none"> <li>Poor quality Cat5e/6 cable.</li> <li>Cable length exceeds maximum.</li> <li>Electromagnetic interference (EMI).</li> </ul>	<ul style="list-style-type: none"> <li>Use a high-quality Cat6 cable.</li> <li>Ensure cable length does not exceed 70 meters for 4K signals.</li> <li>Route cables away from power lines or other sources of EMI.</li> </ul>

If the problem persists after trying these steps, please contact Vivolink customer support for further assistance.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	VL120007
Brand	Vivolink
HDMI Compliance	HDMI 1.4
HDCP Compliance	HDCP 2.2
Max Resolution Support	4K (UHD)
Transmission Distance	Up to 70 meters (230 feet) for 4K over Cat5e/6
Cable Requirement	Single Cat5e/6/7 cable
IR Pass-through	Bi-directional

Feature	Detail
CEC Support	Yes
Power Supply	12V DC (PoC supported)
Item Weight	1.21 Kilograms (approx. 2.67 lbs)
Manufacturer	Vivolink

## 9. WARRANTY INFORMATION

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Specific warranty details are not provided in the product information. Please refer to the warranty card included with your product or contact your point of purchase for detailed warranty terms and conditions.

## 10. CUSTOMER SUPPORT

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For technical support, troubleshooting assistance beyond this manual, or warranty inquiries, please contact Vivolink customer support or your authorized dealer.

Please have your model number (VL120007) and purchase information ready when contacting support.

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## Related Documents

 <p>The image shows the cover of a user manual. At the top, it says 'User Manual'. Below that, the model number 'VLUSBCEXT150' and the description 'USB-C KVM Extender over HDBT' are listed. In the center is a photograph of the black device. At the bottom, the 'VIVOLINK' logo is displayed, along with 'PROFESSIONAL VIDEO SOLUTIONS' and 'All Rights Reserved'.</p>	<p><a href="#">VLUSBCEXT150 USB-C KVM Extender over HDBT User Manual</a></p> <p>Comprehensive user manual for the Vivolink VLUSBCEXT150 USB-C KVM Extender over HDBT, detailing product introduction, features, specifications, panel descriptions, safety precautions, system connection, and disposal information.</p>
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	<p><a href="#">Vivolink Pro RS232 Cable Male - Female, 1.0m   High Performance AV Data Cable</a></p> <p>Vivolink Pro RS232 cable (1.0m) featuring male to female D-Sub 9 connectors. This high-performance cable offers flexibility, 99.9% copper, single shielding, and gold-plated connectors for reliable AV data transmission.</p>
	<p><a href="#">VIVOLINK VLCAM200 Video Conferencing Room Solution User Manual</a></p> <p>This manual provides detailed information on the functions, installation, and operation of the VIVOLINK VLCAM200 video conferencing room solution, including the HD PTZ camera, speakerphone, and hub.</p>

Documents - Vivolink – VL120007



**User Manual**

**VL120007**  
HDBaseT Extender Set 70m



[\[pdf\]](#) User Manual Instructions

Jammy Pan Jocelyn User Manual VL120007 EET Group the device Save this manual for further reference Unpack equipment carefully and save original box packing material possible future shipment Follow basic safety precautions to reduce risk of fire electrical shock injury persons Do not dismantle housing or modify module It may result in HDBaseT Extender Set 70m Any other trademarks mentioned are acknowledged as properties trademark owner Product model Vivolink its logo Vivolink VL120007 files eetgroup MicroConnect

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**MPN: VL120007**  
**HDBaseT Extender Set (Transmitter & Receiver), 70m max, 4K**

Transmitter and Receiver (T/R) are HDMI standards for HDMI and bi-directional IR signals, which contains a transmitter **VL120007T** and a receiver **VL120007R**. It transmits 4K signal up to 131ft 40m, 1080P signal up to 100ft 30m. It supports 4K video up to 60FPS. The extender set supports PoC function, meaning you can connect multiple devices.

- Support all 4K (3840x2160) video signal transmission
- Full transmission distance up to 131ft 40m (40m) and HD (1080P) video up to 100ft 30m (30m)
- High bandwidth 10Gbps
- HDMI compatible, HDC1.4 and HDCP compliant
- Support PoC (PoE)
- Use HDBaseT technology for extended capacity and stability
- Bi-directional IR control
- LED indicators showing work status

**Specifications**

<b>Features</b>	3D	Yes
	Bandwidth	10Gbps
	Cable types supported	Cable, CAT5
	Cable pinning	Yes
	Consumer Electronics Control	Yes
	EDC support	Yes
	HDMI certified	Yes
	HDCP & HDC1.4	Yes
	HDMI pass-through	Yes
	Impedance	75ohm
	IR pass-through	Yes
	LED indicators	Yes
	Maximum resolution	4096x2304 Pixels
	Maximum transfer distance	100m
	Product color	Black
	Remote control type	IR
	Supported video modes	2Kx2K
	Type	AV transmitter & receiver
	Weight	1.5kg
<b>Operational conditions</b>	Operating relative humidity (RH)	10-90 (non-cond)
	Operating temperature (°F)	0-50 °C
<b>Package dimensions (inches)</b>	Depth (in)	13.2
	Case height (in)	1.52
	Height (in)	11.0

[\[pdf\]](#) Specifications Dimension Guide

Product Sheet Vivolink 70m HDBaseT Extender Set Transmitter Receiver VL120007 — Screen Moovevivolink en vl120007cdn shopify s files 1 0581 5556 5242 vivolink vl120007 v 1716801751 |||

MPN: **VL120007** HDBaseT Extender Set Transmitter Receiver , 70m max, 4K Transmitter and Receiver. **VL120007** is a HDBaseT extender for HDMI and bi-directional IR signals, which contains a transmitter **VL120007T** and a receiver **VL120007R**. It transmits 4K signal up to 131ft 40m, 1080P signal up to ...

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VLHDMIEXTFIB VLHDMIEXTHDB2.0 VL120016 VLHDMIEXT1 **VL120007**

Transmission distance Resolution 120m 1080P HDMI 1.4 1080P 60 Hz Transmission speed Audi...

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VLHDMIEXTFIB VLHDMIEXTHDB2.0 VL120016 VLHDMIEXT1 **VL120007**

Transmission distance Resolution 120m 1080P HDMI 1.4 1080P 60 Hz Transmission speed Audi...

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