iTrans NeoLink-H60

HDMI 4K60 NeoLink Extenders, 60m

Hardware User Manual V1.0



INFOBIT AV www.infobitav.com info@infobitav.com

infobit

CONTENT

Important Safety Instructions 2

1. Introduction 2

2. Features 3

3. PACKAGE CONTENTS 3

4. SPECIFICATIONS 3

5. Installation Requirements 5

6. Panel Description 5

   6.1 Transmitter 5

   6.2 Receiver 6

7. Installation and Connection 6

   7.1 How to make a network cable 6

   7.2 Connection Diagrams 6

   7.3 Connection Instructions 7

8. FAQ 7

Important Safety Notice

- To prevent electric shock, please ensure that all device is properly grounded.
- Do not place this device near or over a radiator or heat register, or where it is exposed to direct sunlight.
- Place the device in a well-ventilated area, do not block any ventilation openings.
- Do not expose this device to rain or place it near water. Any liquid that goes into the device may cause a failure, fire, or electric shock.
- Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- Never insert anything metallic into the open parts of this device. This may cause a danger of electric shock.
- If a three-party power supply is used, please ensure that the power supply specifications meet the product requirements.
- Do not plug or unplug the Ethernet cable or HDMI cable while the power is on.

1. Introduction

This HDMI Extender kit is designed to transmit high-definition video and audio signals up to 60m (197 ft) at 4K@60Hz resolution over a single CAT6 cable, delivering uncompressed, zero-latency transmission between the transmitter and receiver. As a highly reliable, ultra-high-definition video transmission solution, it is widely used in security monitoring, home theaters, broadcasting, training environments, and more.

2. Features

- Zero-latency transmission.
- Extends 4K@60Hz HDMI signal up to 60m/197ft over Cat6/6A/7 cable.
- Supports up to **3840 x 2160@60Hz** resolution, backward compatible.
- Supports **HDR10**.
- Supports EDID passthrough and auto downscaling.
- Lightning protection, surge protection, ESD protection.
- Support **PoC** Network Cable Power Supply, **Only TX Power Supply is Needed**.

3. Package Contents

- 1× HDMI Transmitter
- 1× HDMI Receiver
- 1× 5V DC 2A Power Adapter (US/EU/UK/AU)
- 1× User Manual

4. SPECIFICATIONS

Items	Transmitter	Receiver
Video		
Input interface	1x HDMI	1x RJ45
Output interface	1x RJ45	1x HDMI
HDMI Length	≤5m	≤5m
Maximum transfer rate	18Gbps	
Maximum transmission bandwidth	600MHz	
EDID passthrough	Yes	
Compatibility	HDMI 2.0 (Deep color, 4K, HDR, YUV4: 4:4)	
	HDCP 2.2	

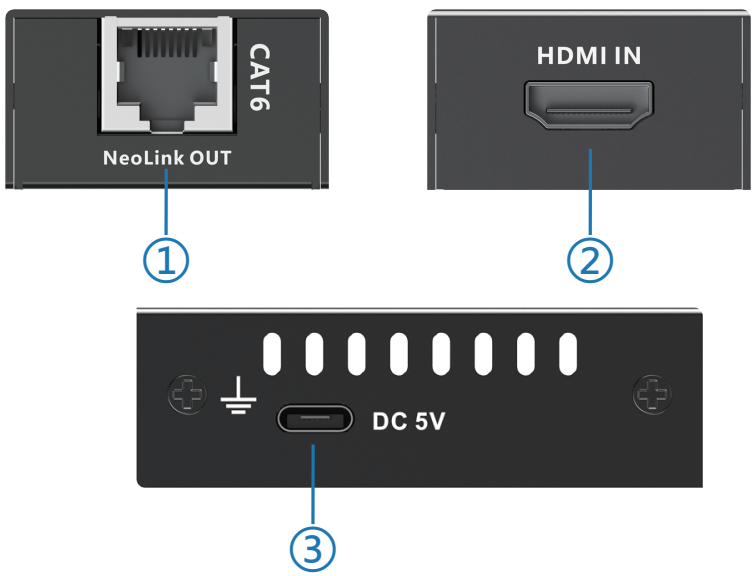
Resolutions	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840x2160@24/25/30/50/60Hz, 4096x2160@24/25Hz, 1280x960, 1280x800, 1280x768, 1680x1050, 1920x1200, 1360x768, 1366x768, 1600x900, 1024x768, 800x600	
Transmission distance	CAT6/6A/7≤60m	
Audio		
Input interface	1x HDMI	N/A
Output interface	N/A	1x HDMI
Audio formats	LPCM/DTS 5.1/Dolby Digital 5.1CH	
Power		
Power Supply	DC5V/2A	PoC (Powered by TX)
Power Consumption	TX+RX < 5W	
Operating Environment		
Working temperature	-20℃~60℃	
Storage temperature	-30℃~70℃	
Humidity	0~90%RH (No condensation)	
Physical Properties		
Housing	Aluminium	
Weight	92g	91g
Color	Black	
Dimensions	67.0(L)* 40 .0(W)*23.0(H)mm	
Protection	ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2	
	Lightning protection, Surge protection	

5. Installation Requirements

Item	Description	Requirement
Signal source	Devices with HDMI port (PC, DVD, NVR, etc.)	HDMI cable ≤5m
Cable	CAT6/6A/7， following standard IEEE-568B	CAT6/6A/7≤60m
Display device	TVs, projectors, etc. with HDMI port	HDMI cable ≤5m

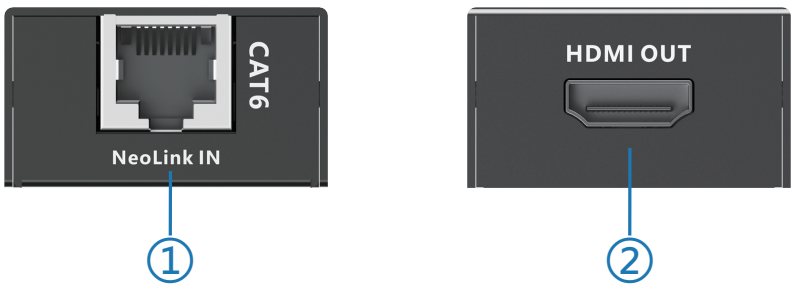
6. Panel Description

6.1 Transmitter



#	Name	Description
①	NeoLink OUT	Connect with CAT6/6A/7 network cable
②	HDMI IN	Connect with HDMI source device with HDMI cable
③	DC5V	Connect with DC 5V/2A power adapter

6.2 Receiver



#	Name	Description
①	NeoLink IN	Connect with CAT6/6A/7 network cable
②	HDMI OUT	Connect with HDMI display device with HDMI cable

7. Installation and Connection

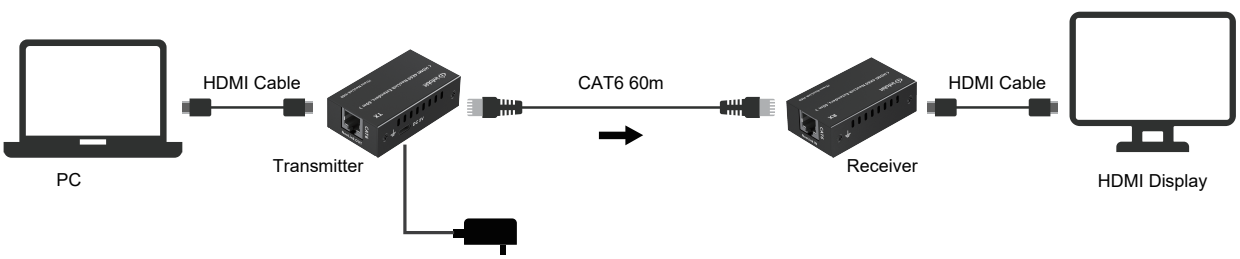
7.1 How to make a network cable, follow the standard of IEEE-568B:

1-white and orange 2-orange 3-white and green 4-blue

5-white and blue 6-green 7-white and brown 8-brown



7.2 Connection



7.3 Connection instruction

1) Connect the source device to the HDMI IN port of the transmitter with an HDMI cable, and connect the HDMI OUT port of the receiver to the display device with another HDMI cable.
2) Use a Cat6/6A/7 cable to connect the RJ45 port of the transmitter and receiver.
3) Plug the power supply into the devices to get started.

Note: It is recommended to use a network cable within a length range of 2~60m. If the length of network cable is too long or too short, the transmission of video signals may not work well.

8. FAQ

Q: The devices are connected correctly, but why is there no image displayed?
A: 1) Please make sure the HDMI cable meets the transmission requirements. (e.g. 4K HDMI cable)
2) Please check and make sure the network cable is connected well.

Q: Why does the display occasionally have a black screen?
A: 1) Check if the length of the cable is within the specified range.
2) Reconnect the network cable and HDMI cables.

Q: Why is the display color abnormal or no sound?
A: 1) Check if the HDMI cables are connected well.
2) Reconnect the network cable.