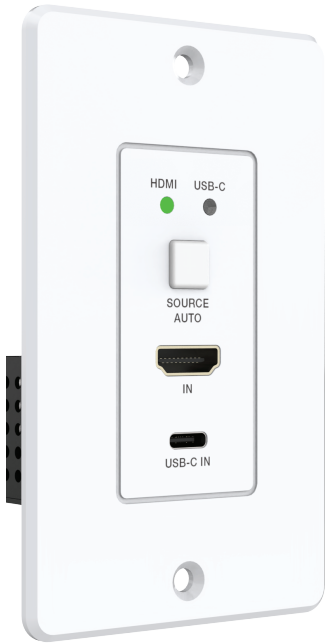
NEXIS

4K60 2x1 HDBT Extender with USB-C/HDMI™ Inputs

HW150C





1. Introduction

This product can extend HDMI/USB-C signals up to 150m/492ft for 1080P @60Hz, or 120m/394ft for 4K2K@60Hz (4:4:4) via a single CAT6/6A cable. The wall-plate transmitter features one HDMI input and one USB-C input port, supporting manual and automatic switching modes. The box receiver features one HDMI output and one 3.5mm de-embedding audio output. It supports bi-directional PoC and bi-directional IR, RS-232 signal transmission.

The multifunctional extender can be widely used in scenarios of demonstration, video conference, multimedia teaching and other HDMI signal extension occassions.

2. Features

- ☆ DP 1.4, HDCP 2.2 compliant
- ☆ The transmitter with 1-Gang US size wall plate supports two inputs: 1× HDMI and 1× USB-C
- ☆ Video resolution is up to 4K2K@60Hz 4:4:4, and video bandwidth is 18Gbps
- ☆ Support auto switching and manual switching
- ☆ The maximum transmission distance via CAT6/6A cable is up to: 120m/394ft for 4K2K@60Hz 4:4:4 signal; 150m/492ft for 1080P@60Hz 4:4:4 signal
- ☆ Support audio format: LPCM 7.1CH, Dolby TrueHD and DTS-HD Master Audio
- ☆ Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
- ☆ Bi-directional IR, RS-232 and CEC control signal transmission
- ☆ Support bi-directional PoC

3. Package Contents

① 1× 4K60 2x1 HDBT Extender (Transmitter)
② 1× 18Gbps HDMI over HDBaseT Extender (Receiver)
③ 1× 24V/1A Multinational Power Supply
④ 1× IR Blaster Cable (1.5m)
⑤ 1× IR Wideband Receiver Cable (1.5m)
⑥ 1× 2-pin 3.5mm Phoenix Connector (Male)
⑦ 2× 3-pin 3.5mm Phoenix Connector (Male)
⑧ 1× 3-pin 3.81mm Phoenix Connector (Male)
⑨ 2× Mounting Ear
⑩ 4× Machine Screw (KM3*4)
⑪ 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz 4:4:4 Including all 3D TV format Including all resolution in computer such as 1920x1200
Color Depth	8-bit,10-bit,12-bit
Color Space	RGB_4:4:4, YCbCr_4:4:4, YCbCr_4:2:2, YCbCr_4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Format	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
L/R Audio Format	LPCM 2.0CH
IR Level	5Vp-p
IR Frequency	Wideband 20K-60KHz
Transmission Distance	Up to 120m/394ft for 4K2K@60Hz 4:4:4 via CAT6/6A cable Up to 150m/492ft for 1080P@60Hz 4:4:4 via CAT6/6A cable
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Transmitter	Input: 1× USB-C IN [USB Type C, 24-pin female] 1× HDMI IN [HDMI Type A, 19-pin female] Output: 1× HDBT OUT [RJ45] Control: 1× RS-232 [3-pin 3.5mm phoenix connector] 1× IR IN [3-pin 3.5mm phoenix connector] 1× IR OUT [2-pin 3.5mm phoenix connector]
Receiver	Input: 1× HDBT IN [RJ45, 8-pin female] Output: 1× HDMI OUT [HDMI Type A, 19-pin female] 1× AUDIO OUT [3.5mm stereo mini-jack] Control: 1× IR IN [3.5mm stereo mini-jack] 1× IR OUT [3.5mm stereo mini-jack] 1× RS-232 [3-pin phoenix connector] 1× SERVICE [Mini-USB, update port]

Mechanical	
Housing	Transmitter/Receiver: Metal Enclosure
Color	Transmitter: White + Black; Receiver: Black
Dimensions	Transmitter: 69.8mm [W] × 39mm [D] × 114mm [H] Receiver: 140mm [W] x 65mm [D] x 18mm [H]
Weight	Transmitter: 203g, Receiver: 155g
Power Supply	Input: AC 100-240V 50/60Hz; Output: DC 24V/1A (US/EU standard, CE/FCC/UL certified)
Power Consumption	Transmitter: 4.5W (Max); Receiver: 4.7W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Operating Humidity	20%~80% relative humidity, non-condensing
Storage Humidity	10%~90% relative humidity, non-condensing

5. Application Example

