WyreStorm® Express

Quickstart Guide

WyreStorm Express™ HDBaseT Extender with IR (50m/164ft)

EXP-EX-HDBT-50

4K ULTRA HD • **HDBT**™ • **HDMI®** • **HDCP** • **3D**

Before Installation

The maximum transmission distance for this model is 4K: 25m/82ft or 1080p: 50m/164ft and denotes recommended transmission conditions - straight cable runs with no electrical interference, bends, kinks, patch panels or wall outlets. If any of the above is a factor in your installation, transmission range may be affected – take care to avoid where possible.

We strongly recommend using supplied mounting brackets to secure the receiver to a flat surface behind/near the display device. Sudden movement of these devices could lead to loss of picture/sound if connections become loose or strained, resulting in unnecessary service call-backs.

If unsure of positioning, IR sensors can be located on devices by shining a flashlight onto the fascia of the device - the IR sensor should be identifiable as a small round sensor behind the panel. Consult your device manufacturer handbook if difficulties are experienced.
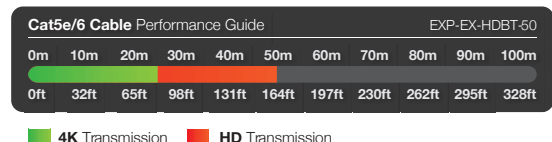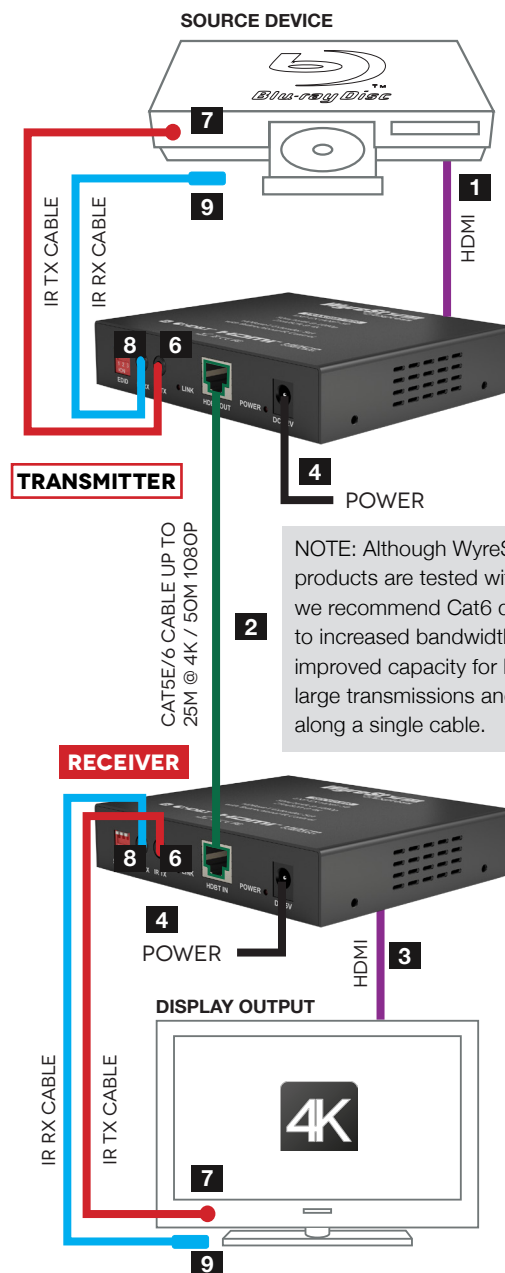
Setup and Operation

1 Using quality HDMI cables, connect an HDMI source (such as Blu-ray, games console, satellite/cable TV, media server etc.) to the HDMI IN of the transmitter.

2 Connect a good quality, well-terminated Cat5e/6 cable of no more than 50m/164ft in length between the HDBT OUT of the transmitter to the HDBT IN input of the receiver.

3 Connect the HDMI display device (LED/LCD display or projector) to the HDMI OUT of the receiver.

4 Connect the included 5v power supply to the EXP-EX-HDBT-50 transmitter and receiver and power on.

5 Check POWER & STATUS lights are illuminated and static on both units to indicate successful connection.
NOTE: If daisy-chaining extenders, repeat process for all transmitters and receivers used.

IR Control Connection

6 For two-way IR control of connected sources and displays from either location, first connect IR emitters to the IR TX ports of the transmitter and receiver.

7 Firmly attach the IR emitter eye directly over the infrared receiving sensors of the devices to be controlled (source at transmitter location, and display device at receiver location). Location of the emitter eye on the device may need to be adjusted later to achieve best IR performance.

8 Insert IR receivers into IR RX ports of the EXP-EX-HDBT-50 transmitter and receiver.

9 At both display and source locations, position the IR receiver on or near the device to be controlled, ensuring a clear line of sight to the remote handset used to control it.

Optional: For control system integration a WyreStorm IR Integration Cable (CAB-IR-LINK) should be used to connect the IR RX port of the transmitter and the control system.

SOURCE DEVICE

Blu-ray Disc™

7 — IR TX CABLE
9 — IR RX CABLE
1 — HDMI

8 **6**

TRANSMITTER

4 — POWER

CAT5E/6 CABLE UP TO 25M @ 4K / 50M 1080P

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NOTE: Although WyreStorm products are tested with Cat5e, we recommend Cat6 due to increased bandwidth and improved capacity for handling large transmissions and power along a single cable.

RECEIVER

8 **6**

4 — POWER
3 — HDMI

DISPLAY OUTPUT

IR RX CABLE
IR TX CABLE
7
9

4K

Cat5e/6 Cable Performance Guide										EXP-EX-HDBT-50
0m	10m	20m	30m	40m	50m	60m	70m	80m	90m	100m
0ft	32ft	65ft	98ft	131ft	164ft	197ft	230ft	262ft	295ft	328ft

■ **4K** Transmission   ■ **HD** Transmission

DIP Switch settings

Default factory settings are all three switches set to the **OFF/UP** position. Please ensure switch is set to this position on initial connection.

DO NOT HOTSWAP All changes to the EDID Dip switch should be made with power turned off at the mains and the 5V cables will take effect on re-boot. Follow this procedure each time EDID Dip switch settings are changed. DO NOT connect/disconnect when powered.

See full manual for complete DIP switch settings

EDID

TRANSMITTER

RECEIVER

Troubleshooting

Regardless of manufacturer or product, the majority of installation difficulties can typically be attributed to communication problems between devices or when high bandwidth transmissions are attempted with insufficient cable/connections. Should you find yourself in such a situation, we have drawn up the following checklist of general issues and causes that should help you shoot your way out of trouble without seeking further assistance.

No or poor quality picture?

■ Device Connection - Are you connected and powered? Double check all HDMI, UTP and 5v power connections are firmly inserted into correct ports and that all devices are powered. In the event of a poor quality or excessive cable run, the 5v DC input of the RECEIVER may have to be used.

■ Cable length – is your signal struggling to transmit signals or power the distance of your cable? If you are approaching the maximum capacity of your transmission cable distance, try changing to long cable mode on the receiver DIP switch.

■ Signal strength – the use of cable joins, stranded patch panels, wall outlets and stranded patch leads as interconnects between them, can significantly reduce signal strength. Use solid core, straight, straight-through connections wherever possible.

■ Resolution - If you reduce the resolution of the source, do you get a picture? If so, this suggests a conflicting resolution between source and display or a bandwidth capacity issue with your cable. Check all inputs and outputs share the same resolution and make sure the signal is being successfully transmitted the full length of your cable run.

■ Picture 'snow' / HD 'noise' – signifies a failure to fully establish a signal and can often be caused by poorly terminated RJ45 connectors or excessive cable lengths. Ensure your cable is correctly wired to 568B standards. Try swapping in a display and RECEIVERs from a fully functioning location – if the problem continues on the same output, turn off all equipment and swap your signal carrying cables at both ends.

■ Cable quality and condition – HDMI cable/connectors can be easily damaged and the quality of material can vary, especially in lower price brackets. Successful transmission of video and audio can all be affected by cable and termination quality. Always use good quality leads and cables, with RJ45 connectors wired to the 568B standard at both ends. Should transmission problems be experienced, try swapping cables/leads for those already working to see if this improves your image to identify cable issue as source of problem.

■ 4K, Blu-Ray, 3D - Make sure all your equipment has been configured and enabled to transmit and accept the signal, or is capable of passing a signal. Are resolutions between source and display compatible and cable adequate for the large bandwidth required by 4K, Blu-ray and 3D transmissions?

IR Control

■ Check IR transmitter and receiver eyes are correctly positioned to allow infrared signals to be transmitted and received through the extenders. IR emitter should be fixed firmly over infrared sensors of devices. IR receiver eye should be attached on or near devices ensuring a clear line of sight to the remote control used to operate.

■ Is your remote control powered and sending a signal? As IR is invisible to the naked eye, check your remote is transmitting a signal by viewing the remote handset sensor through a digital camera/camera phone – the sensor should flash when a button on the handset is held down.

■ IR signal dropout can be experienced due to exterior emissions of infrared radiation. Ensure IR transmitters and receivers are away from direct sunlight, halogen lighting and plasma screens that may interfere with IR signals.

For full information on this product including EDID settings and warranty details, please download full manual at wyrestorm.com

Safety Recommendations:

■ Do not expose this apparatus to any form of moisture, including the placement of anything containing liquids on the unit.

■ To prevent risk of electric shock or fire hazard, ensure apparatus is installed in an unobstructed, well ventilated area away from any external heat sources - including other electrical devices which may produce heat.

■ Only use attachments / accessories specified by the manufacturer and refer all servicing to qualified service personnel.

■ Failure to adhere to these recommendations may invalidate your warranty.

Warranty Information

1 YEAR WARRANTY WYRESTORM® EXPRESS

This product is covered by a 1 year limited parts and labour warranty. During this period there will be no charge for unit repair, component replacement or complete product replacement in the event of malfunction. The decision to repair or replace will be made by the manufacturer.

This limited warranty only covers defects in materials or workmanship and excludes normal wear and tear or cosmetic damage.

Visit our website for full details on this product and to download the complete user guide including technical specification, EDID settings and warranty information.