

Extending HDMI using UTP to 40m (131ft) with IR source control

Single UTP 40m Extender Set

Part Number EX-1UTP-IR-40

Attention We strongly recommend using the supplied mounting brackets to secure both the transmitter and receiver baluns. Sudden movement of these devices can lead to unnecessary service call outs and loss of picture/sound due to stress on connections.

1 HDMI: Connect the HDMI source (i.e. HD-DVD, PS3, Cable/Sat box, Blu-ray etc.) to the HDMI IN of the TRANSMITTER and connect the HDMI DISPLAY (i.e. LCD/plasma TV, digital projector etc.) to the HDMI OUT of the RECEIVER.

Use good quality HDMI cable, ensuring connectors are inserted firmly in ports and avoid excessive bending of cable.

Attention Do Not Hotswap! - Please insert and extract cables carefully with the power SWITCHED OFF. Connecting and disconnecting while the unit is powered can result in damage to circuitry.

2 One-way IR: Position the small, round IR TX emitter directly over the infrared receiving area of the SOURCE and secure with the adhesive backing. You may need to adjust the location of the emitter later to achieve best results - repositioning to different areas on the source face can sometimes improve IR performance. Insert the IR TX 3.5mm jack into the IR TX port on the TRANSMITTER.

Tip: You can locate the small, round infrared sensor by shining a flashlight onto the display panel of your source.

3 Insert the IR RX 3.5mm jack into the IR RX port on the RECEIVER. Discretely attach the larger, rectangular emitter to the DISPLAY with the adhesive backing, ensuring a clear line of sight to the remote control being used. Again, repositioning IR RX may be required to achieve best results.

4 Cat5e/6 Transmission: Connect the TRANSMITTER and RECEIVER with a single, good quality, well terminated and tested Cat5e/6 cable with RJ45 connectors wired to 568B standard at both ends up to a distance of 40m (131ft). (See diagram)
The quality of each RJ45 termination is essential - poor termination leads to intermittent performance and longer install times.

Attention Check connectors are pushed securely into each port and supported by the connector strain relief clip to prevent them from becoming loose.

5 Power: Add the 5V power supplies provided to both TRANSMITTER and RECEIVER. We do not recommend passing power remotely over long cable distances as this can affect product performance.

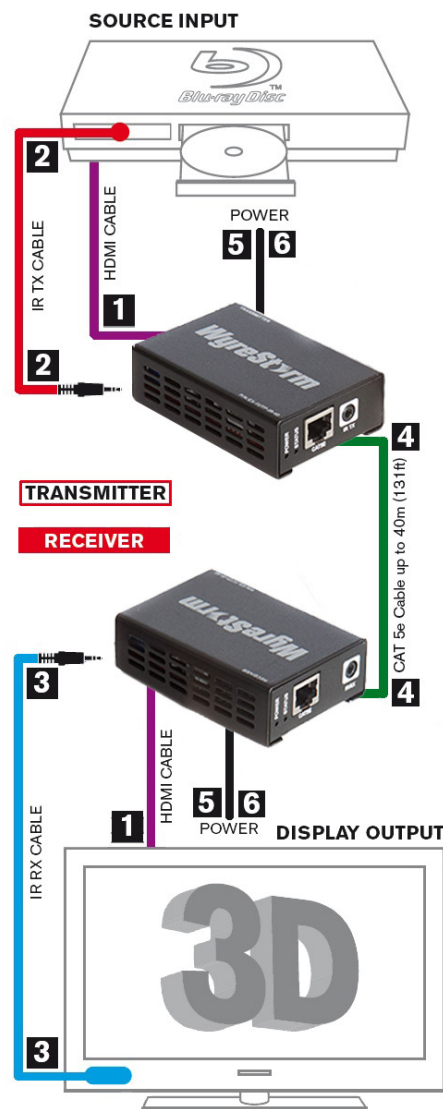
6 You can also power TRANSMITTER and RECEIVER units using WyreStorm USB to 5V adaptors connected to DISPLAYS or SOURCES with spare USB ports. This not only solves space

and power availability problems at locations, it also offers improved energy efficiency as extenders are only powered when devices are turned on.

7 Finally, power on TRANSMITTER, RECEIVER and all connected devices and your extender set is ready for use.



Attention Check LED POWER and STATUS are lit to confirm the units are powered and a signal link is established between the units. If not, check connections, devices and power supplies or follow the trouble shooting overleaf.



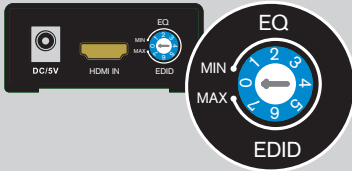
Cat 5e Cable Performance Guide

5m	10m	15m	20m	25m	30m	35m	40m
Single Cat5e/6/7 HD Extender Set with IR EX-1UTP-IR-40 1090p							
16ft	32ft	49ft	65ft	82ft	98ft	114ft	131ft
1080p				1080i			

*PLEASE NOTE - All cable distances are on the basis of a direct runs of cable (no patch panels or wall outlets). Please use good quality, solid conductor, Cat5e cable. Standard pre-made patch leads will reduce effectiveness of this product. Please ensure Cat5e cables are installed to local electrical regulations. Close lying electrical cables can effect product performance.

DIP Switch Settings

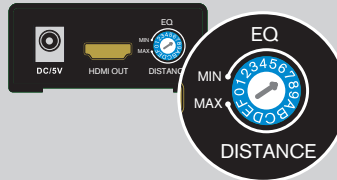
TRANSMITTER



! Make sure your DIP switch is set to zero as default for initial installation.

Position	Functions
0 (default)	1080p stereo – The balun will use embedded 1080p stereo audio compatible EDID.
1	1080p 5.1 – The balun will use embedded 1080p 5.1 audio EDID.
2	EDID Copy Mode – the balun will copy EDID from connected display For 3D - with both baluns powered OFF, set Transmitter DIP switch to position 2, connect the 3D source and the Receiver to the 3D display. Power on all devices and the baluns. The EX-1UTP-IR-40 will now detect and output 3D to the display.
3	1080i stereo – The balun will use embedded 1080p 5.1 EDID.
4	1080p stereo – Long Cable Mode (LC mode) – The balun will use embedded 1080p stereo audio compatible EDID configured for longer cable transmission. If experiencing poor picture quality when using a long cable run or lower quality UTP/HDMI cable, LC Mode can be selected to improve picture quality.
5	1080p 5.1 LC Mode - The balun will use embedded 1080p 5.1 audio EDID configured for longer cable transmission.
6	EDID Copy LC Mode - the balun will copy EDID from connected display configured for longer cable transmission.
7	1080i stereo LC Mode - The balun will use embedded 1080p 5.1 EDID configured for longer cable transmission.

RECEIVER



Occasionally, the installation environment, such as the distance between source and display may be a factor in the perfect transmission and reception of a signal. The EX-1UTP-IR-40 RECEIVER balun can be further fine-tuned depending on the length of Cat5e/6/7 cable used for optimum performance.

Position	Functions
0	0-5m Transmission distance
1	5-10m Transmission distance
2	10-15m Transmission distance
3	15-12m Transmission distance
4	20-25m Transmission distance
5	25-30m Transmission distance
6	30-35m Transmission distance
7 (default)	35-40m Transmission distance. Default position 7 recommended for initial connection and operation. If signal requires fine-tuning, move through the following settings until desired image quality is achieved.
8 to F	No function - settings reserved for future updates

Troubleshooting

Should you encounter installation difficulties or issues with device communication, read through 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?

■ Connected and powered? Double check all HDMI, UTP and 5v power connections are firmly inserted into correct ports and that all devices are powered.

■ Cable length – is your signal struggling to transmit the distance of your cable? If you are approaching the maximum capacity of your transmission cable distance, use an in-line repeater to boost your signal or try changing to long cable mode on the 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 through connections wherever possible.

■ 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. Always use good quality leads and cables and try swapping for those already working to see if this improves your image.

■ Blu-ray and 3D – make sure all your equipment has been configured and enabled to transmit and accept the signal. Are resolutions between source and display compatible and cable adequate for the large bandwidth required by Blu-ray and 3D transmissions?

IR Control

■ Are IR emitters and receivers correctly positioned to allow infrared signals to be transmitted and received through the baluns? Emitters should be fixed firmly over infrared sensors of sources. Receivers should be attached to displays 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 emitters and receivers are away from direct sunlight, halogen lighting and plasma screens that may interfere with IR signals.

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.

Please see below for additional safety and warranty information.

Thank you for choosing WyreStorm.

This product is covered by a 2 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.