

Dual Cat5e/6/7 Point to Point HD Extenders

Part Number EX-2UTP-IR-50

Connection and Operation

- 1 Place the **IR TX emitter** sensor directly over the infrared receiving areas of the **input source** (i.e. Blu-ray, cable/sat box). You may have to adjust the location of this later to achieve the best performance results. Sometimes moving the sensor to different places on the source can improve IR performance.
- 2 Connect the **IR TX emitter** 3.5mm jack into the **IR TX** port on the side **TRANSMITTER** balun.
- 3 Place the **IR RX receiver** sensor on the front of the **display**. You may have to adjust the location of this later to achieve the best performance and ensuring there is clear line of sight between this sensor and any remote control you are using.
- 4 Connect their **IR RX emitter** 3.5mm jack into the **IR RX** port on the side of the **RECEIVER** balun.
- ! **We strongly recommend using the supplied mounting brackets to secure both the TRANSMITTER & RECEIVER baluns. Any sudden movement of these devices could lead to loss of picture and sound if connections become loose or strained, resulting in unnecessary service call backs.**
- 5 Connect the **TRANSMITTER** and **RECEIVER** baluns with 2 x good quality, well terminated and tested *Cat5e/6 cables with RJ45 connectors wired to the 568B standard at both ends. Ensure all connectors are pushed securely to each port and supported by the connector strain relief clip to prevent them from becoming loose. The quality of termination for every RJ45 is essential. Poor terminations leads to intermittent performance and longer install times.
- 6 Make sure you connect your RJ45 Cat5e cables correctly – Port 1 to Port 1, Port 2 to Port 2 (see diagram).
- 7 Finally, add the provided **5V power supplies** to both **TRANSMITTER** and **RECEIVER**. We do not recommend passing power remotely over long cable distances as this can affect the performance of the product.

! You can power transmitter and receiver units via a USB 5V lead (CAB-USB-5V) for screens or sources with spare USB ports. This often solves power availability problems especially at the display end.



USB to 5V Cable

Part Number CAB-USB-5V

Cat 5e Cable Performance Guide

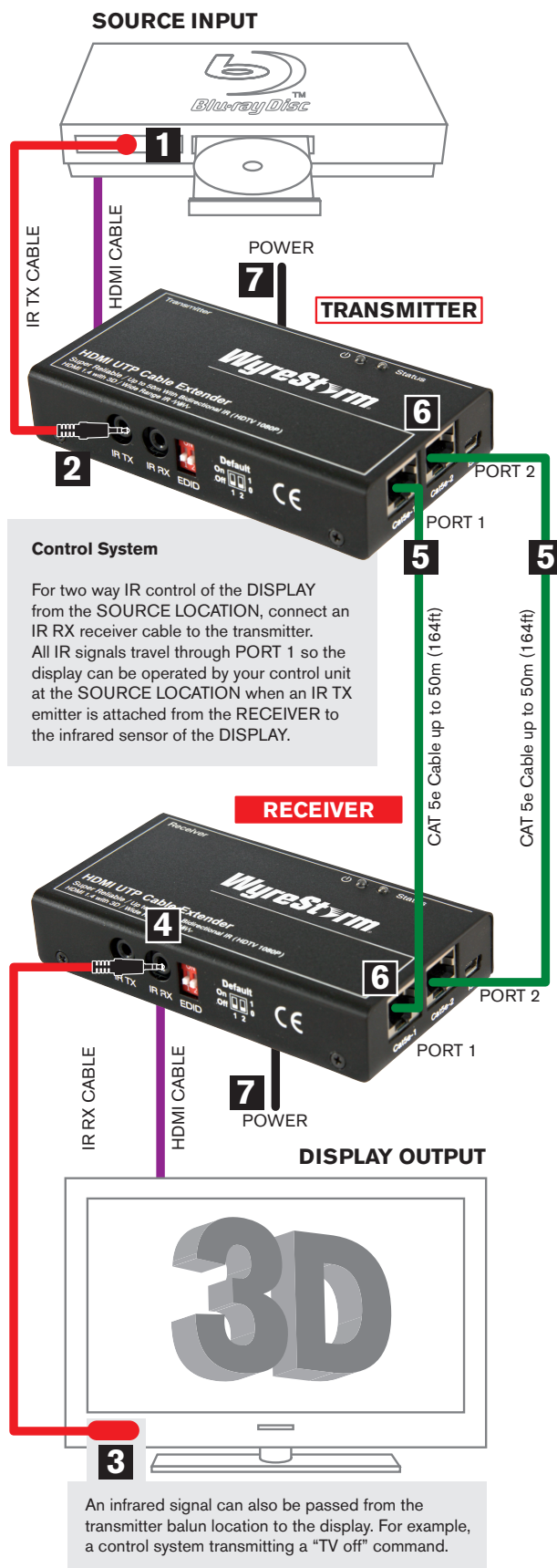
5m	10m	15m	20m	25m	30m	35m	40m	45m	50m	60m
Dual Cat5e/6/7 Point to Point HD Extenders										
EX-2UTP-IR-50 1080p										
16ft	32ft	49ft	65ft	82ft	98ft	114ft	131ft	147ft	164ft	196ft
1080p 1080i										

* 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. Stranded 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.



Cat 5e Wiring Guide

The quality of termination for every RJ45 is essential. Poor terminations leads to intermittent performance and longer install times.





DIP switch settings

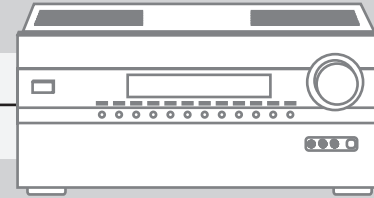
After all Dip Switch Changes, 5V power cables and HDMI leads should be removed to allow changes to take effect on re-boot.



Make sure your DIP switch is set to default for initial installation



	TRANSMITTER	Automatically copies EDID data from displays
	RECEIVER	Normal mode
	TRANSMITTER	EDID supports Dolby true HD, DTS-HD
	RECEIVER	Force signal output / AV receiver mode
	TRANSMITTER	EDID just supports stereo audio
	RECEIVER	Long cable mode
	TRANSMITTER	To read and store the EDID from displays
	RECEIVER	Reserve (no function assigned)



AV receiver mode

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:

- 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, 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. Transmitters 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.

For technical support, please call:
US: +866 677 0053
UK: +44 (0) 1793 238 338
Email: support@wyrestorm.com