

Part Number EX-SDI-50

- 1** Firmly connect an HDMI source device (such as Blu-Ray, games console, satellite/cable, media server, splitter or matrix etc.) to the HDMI IN of the TX-SDI-50 transmitter.
- 2** Connect a good quality, well terminated copper-core 75Ohm WF100 coax cable of no more than 50m/164ft in length between either of the synchronous SDI OUT ports on the TX-SDI-50 to the SDI IN port of the RX-SDI-50 Receiver.

NOTE: If using both SDI OUT ports of the TX-SDI-50, an RX-SDI-50 receiver must be used for each output.

! **50m/164ft is the maximum recommended transmission distance for this model and denotes perfect transmission conditions***

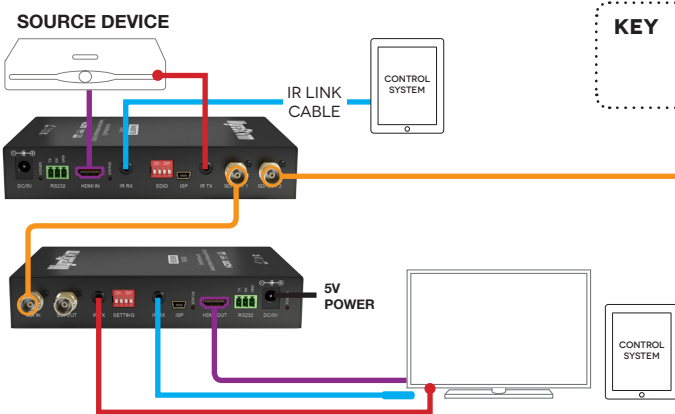
- 3** Firmly connect the HDMI sink (LCD/LED display/projector) to the HDMI OUT of the RX-SDI-50 receiver.

NOTE: We strongly recommend using the supplied mounting brackets to secure both transmitter and receiver. Any sudden movement of devices can lead to loss of picture/sound if connections become loose or strained, resulting in unnecessary service call-backs.

- 4** If daisy-chaining receivers, connect another coax cable of no more than 50m/164ft in length from the SDI OUT port of the RX-SDI-50 receiver to the SDI IN of another RX-SDI-50 receiver unit to enable signal pass-through.

NOTE: EX-SDI-50 receivers can be cascaded up to 7 times along a single output.

- 5** Connect the 5V DC power supplies included to both TX-SDI-50 and RX-SDI-50 and power on source, transmitter, receiver and display.



Ensure the POWER and STATUS indicators are lit on both transmitter and all receivers used to confirm all units are powered and a signal is being passed between them.

! **If you fail to receive a signal, check LED indicators are lit before checking power supplies and correct cable connection and operation for all devices.**

IR/Serial Control

- 6** For control of the source from display zone, connect the IRTX emitter from the TX-SDI-50 transmitter to the infrared receiver window of the source using the adhesive backing - you may need to adjust the position of the emitter eye on the source for best results.

HINT: You can locate the IR sensor of devices by shining a flashlight onto the front of the device - the sensor should be a small round diode located behind the fascia. If in doubt, please consult the device manufacturer handbook.

- 7** At the display zone, connect the IRRX receiver cable from the RX-SDI-50 receiver to the display, ensuring clear line of IR sight with the remote handset used to control and pressing down firmly to secure attachment.

- 8** For bidirectional IR, attach an IRTX emitter from the Receiver to the IR window on the display device and position an IRRX at the source.

- 9** If using an RS232-based control system, connect an IR Integration Cable (CAB-IR-LINK) from the IR RX port of the TX-SDI-50 transmitter to your control system and insert cables into the RS232 ports to enable serial control.

Check full manual for RS232 settings

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



Coaxial Wiring Guide

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

*NOTE: All cable distances are on the basis of straight cable runs with no electrical interference, bends, kinks and joins etc. using good quality copper-core 75Ohm WF100 coax cable. If any of the above is a factor in your installation, transmission range and quality may be affected.

TRANSMITTER		RECEIVER		SETTING
				ATTENTION: Make sure switches are set to DEFAULT for initial installation. Remove all cables and power supply for switch changes to take effect. Switch settings become active on re-boot.
EDID		RECEIVER		
TRANSMITTER		RECEIVER		
DEFAULT: Video Auto-Mode (recommended setting)		DEFAULT: Audio Auto-Mode (recommended setting)		
TRANSMITTER		RECEIVER		
Process Mode (not recommended)		Process Mode (not recommended)		
TRANSMITTER		RECEIVER		
EDID Copy Trigger (Note 1)		Non-encryption Output		
TRANSMITTER		RECEIVER		
DEFAULT: 1080P Stereo / EDID Copy Trigger (Note 1)		DEFAULT: Output HDCP		
TRANSMITTER		RECEIVER		
Reserved for future use - no function		Color detect mode		
TRANSMITTER		RECEIVER		
Reserved for future use - no function		DEFAULT: 24bit Color Output		
TRANSMITTER		RECEIVER		
EDID Copy		Reserved for future use - no function		
TRANSMITTER		RECEIVER		
1080p 3D video, 7.1 Audio EDID		Reserved for future use - no function		
TRANSMITTER		RECEIVER		
1080p video, 7.1 Audio EDID		Reserved for future use - no function		
TRANSMITTER		RECEIVER		
DEFAULT: 1080p 3D video, Stereo Audio EDID		Reserved for future use - no function		

Note1: (DEFAULT) 1080p stereo EDID is the factory default setting (OFF). Switching to ON activates the EDID COPY TRIGGER mode, which sends a command to the MCU for the Transmitter to copy EDID from the Receiver. **Note:** this is not an 'Auto-copy' setting. Following an initial change of setting to the ON position, returning the switch to OFF will not return to DEFAULT 1080p Stereo EDID. Instead, both ON and OFF positions will 'Trigger' the command to be sent to the MCU for the Transmitter to copy EDID from the receiver. Toggling between settings will resend the trigger command to copy EDID. To reset to 1080p Stereo, connect a display set to output 1080p 2CH audio and trigger the EDID Copy or change EDID DIP settings to 1080p 3D Stereo EDID.

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 power and cable connections between all devices.

■ Cable length – Struggling to transmit a signal over the distance of your cable? If you are approaching the maximum capacity of your transmission cable distance, try adjusting the EQ distance settings on the Receiver.

■ Signal strength – Cable joins, stranded patch panels, wall outlets and stranded patch leads as interconnects, can significantly reduce signal strength. Use solid core straight through connections wherever possible.

■ Resolution – can you get a picture at a lower resolution? If so, this suggests a conflicting resolution between source/display or a bandwidth capacity issue with your cable. Check all devices 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.

■ Cable quality and condition – 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.

■ Blu-Ray, 3D – Make sure all your equipment is capable, configured and enabled to pass a signal, including compatible resolutions between source and display and cable with adequate bandwidth used.

■ 4K - Are you trying to pass a 4K signal? This product is not designed to pass 4K resolutions.

IR Control

■ Check IR emitter and receiver eyes are correctly positioned for IR signals to be transmitted/received. IR TX emitter eye should be fixed firmly over infrared sensors of devices. IR RX 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.

■ Avoid IR dropout by ensuring IR eyes 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.

Warranty Information

This product is covered by a 3 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.

Please visit the website product page to download the full user guide including specification and warranty terms & conditions.

www.wyrestorm.com

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