

Intelix DIGI-HDMI-F

Installation Manual



Introduction

The active Intelix DIGI-HDMI-F balun allows an HDMI (high-definition multimedia interface) audio and video signal to be transmitted up to 150 feet via inexpensive twisted pair cabling, such as Cat 5e or Cat 6. The DIGI-HDMI-F supports standard HDTV resolutions and is HDCP compliant.

Two individual runs of twisted pair cable are required when installing the DIGI-HDMI-F balun. Two runs of Cat 5e are required for 480i, 480p, 720p, and 1080i video. Two runs of Cat 6 are required for 1080p video. In environments susceptible to high electromagnetic interference, two shielded twisted pair cables should be used.

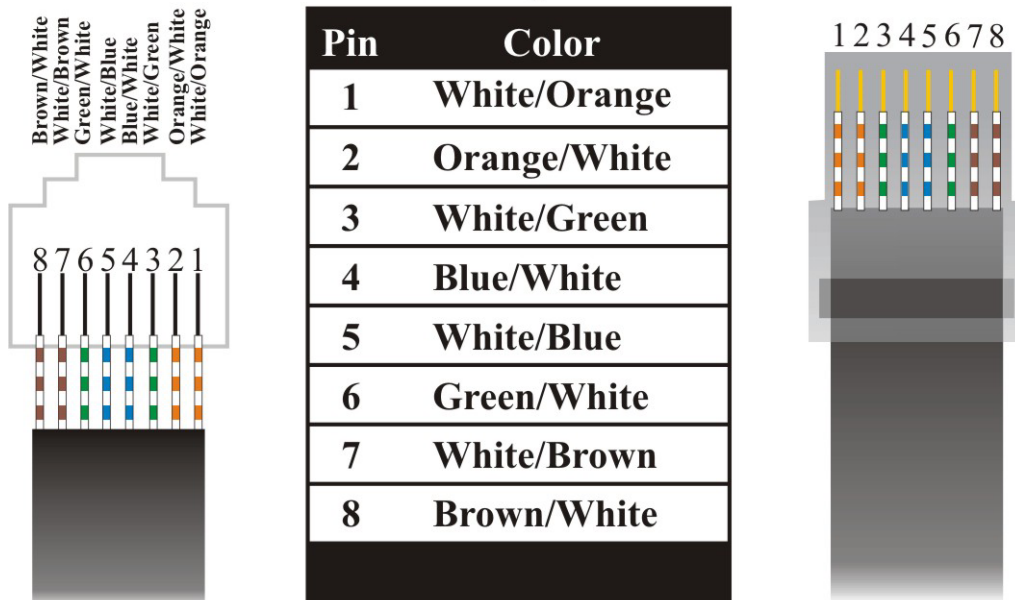
The Intelix HDMI-F includes a send balun, receive balun, and one power supply. The system is powered on the receive end.

Installation

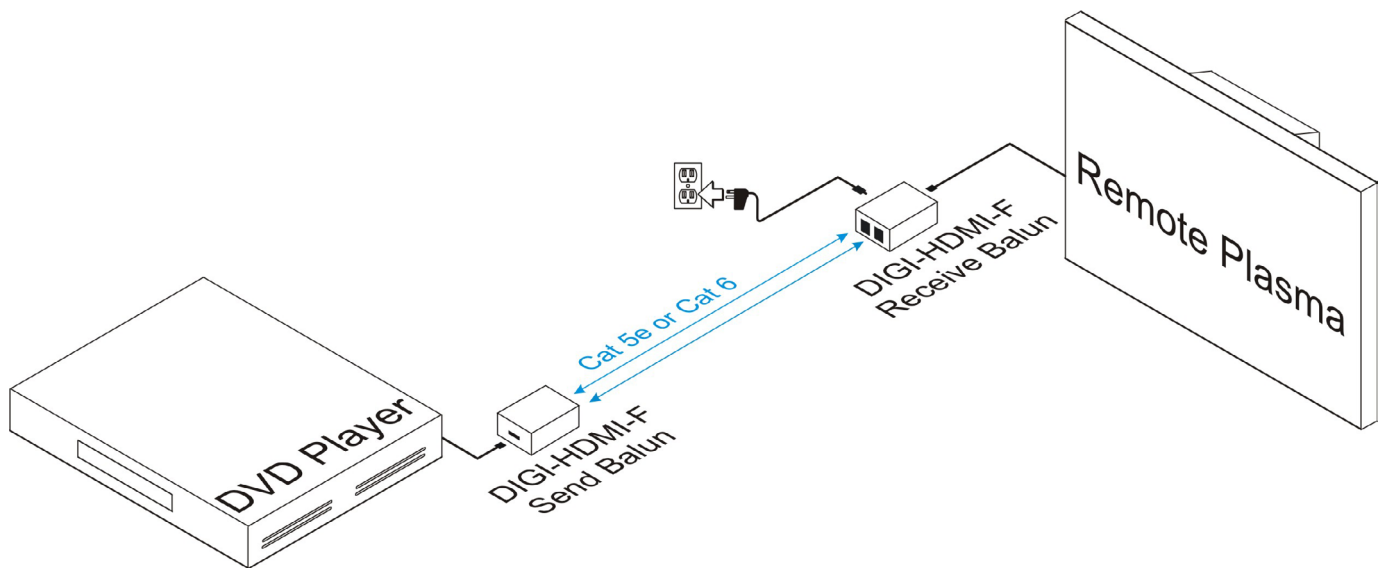
To install the Intelix DIGI-HDMI-F baluns, perform the following steps:

1. Identify the pin configuration of the baluns and RJ45 connectors on the twisted pair cabling. To eliminate crosstalk, the pin configuration must follow the EIA/TIA 568B standard. Please ensure that wiring is straight-through.
2. Connect the DIGI-HDMI-F send balun to the HDMI output of the video source.
3. Connect the DIGI-HDMI-F receive balun to the HDMI input of the receiving device at the remote end. Do **not** connect the 5V power supply.
4. Complete the connection between the send and receive baluns using two runs of twisted pair cable. Ensure that there are no split pairs or taps.
5. Connect the 5V power supply to the receive DIGI-HDMI-F balun.
6. Power-on the video equipment.
7. Verify picture quality.

EIA/TIA 568B Crimp Pattern Standard



Symptom	Probable Causes	Possible Solutions
No video	No continuity in video link	Verify cable continuity between pairs of baluns.
No video	Power off	Check power supplies of video equipment. Verify the LEDs on both the send and receive units are illuminated.
No video	Improper connection or swapped pairs	Check that baluns are connected to correct video inputs and outputs. Check that the video and DDC Cat 5 cables are not swapped
Unusual colors	Improper grounding or cable type	Verify the source and destination devices are grounded.
Background pattern	EMI interference	Identify possible radiating frequency sources (i.e.; wireless LANs, switching power supplies) and isolate them.



Technical Specifications

Video Amplifier Bandwidth	1.65 Gbps
Supported Video Resolutions	480i, 480p, 720p, 1080i, 1080p
Max Recommended Distance	480i, 480p, 720p, 1080i up to 150 feet with Cat 5e 1080p up to 150 feet with Cat 6
Input Video Signal	1.2 volts p-p
Input DDC Signal	5.0 volts p-p (TTL)
Input Unit Connectors	(1) Type A HDMI connector to (2) RJ45s
Output Unit Connectors	(1) Type A HDMI connector to (2) RJ45s
Cabling	Two individual runs of Cat 5e or Cat 6
Power	External 5 VDC
Power Connector	Powered on the receive end; side mounted connector
Dimensions	3.25" x 1.75" x 0.88"
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: up to 95%
Shipping Weight	1 lb.
Warranty	2 years
Intelix Part Number	DIGI-HDMI-F
Ordering Information	<i>DIGI-HDMI-F</i> package includes both send and receive units and one power supply

The Intelix DIGI-HDMI-F conforms to HDMI and HDCP specifications. Intelix does not guarantee operation with devices that do not conform to these specifications. The Intelix DIGI-HDMI-F passes HDCP signals and does not manipulate them in any way.



Intelix LLC

2222 Pleasant View Road
Middleton, WI 53562
www.intelix.com

Phone: 608-831-0880
Toll-Free: 866-4-MATMIX
intelix@intelix.com