

Intelix DIGI-DVI-R-F Installation Manual



Introduction

The Intelix DIGI-DVI-R-F receiver is used in conjunction with Intelix DIGI-DVIT2R-F and DIGI-DVIT4R-F DVI over Cat 6 distribution systems.

Intelix DIGI-DVIT2R-F and DIGI-DVIT4R-F systems transmit high-definition, 1920x1080 resolution DVI-D signals up to 220 feet using a single shielded Cat 6 cable. Each system includes one send balun and one DIGI-DVI-R-F receive balun. Additional receive baluns must be purchased separately.

The Intelix DigiCat Series of baluns is the ideal solution for sending digital, high-performance signals over structured cabling. **When signal quality matters, choose Intelix.**

EDID and DDC Detection

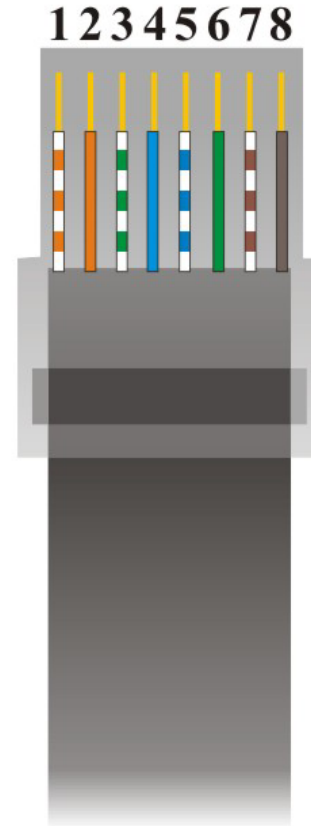
The Intelix DIGI-DVI system does not transmit control signals across the twisted pair cable, but instead identifies and stores EDID and DDC signals within the send and receive baluns. Therefore, the send and receive baluns must be first connected to the DVI receive device to ensure proper operation.

After storing the EDID and DDC signals, should the local monitor output be disconnected, the stored settings will not be modified.

Supported Resolution Settings	
Resolution	Refresh Rate
640 x 480	85 Hz
800 x 600	85 Hz
1024 x 768	85 Hz
1152 x 870	75 Hz
1280 x 768	75 Hz
1280 x 960	60 Hz
1280 x 1024	60 Hz
1600 x 1200	60 Hz
1920 x 1080	60 Hz

For proper operation, all destination devices must be set to the same resolution and refresh rate.

Pin	Color
1	Orange/White
2	Orange
3	Green/White
4	Blue
5	Blue/White
6	Green
7	Brown/White
8	Brown



EIA/TIA 568B Crimp Pattern Standard

Installation

To install the Intelix DIGI-DVI-R-F balun, please perform the following steps:

1. Power-off the source and destination DVI devices.
2. 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.
3. Connect the DIGI-DVI-T2-F or DIGI-DVI-T4-F send balun (purchased separately) to the DVI output of the source device (typically a computer).
4. Connect the destination device (typically the monitor or projector) to the local monitor output on the DIGI-DVI-T2-F or DIGI-DVI-T4-F send balun. Power-on the monitor or projector.
5. Connect the 5V power supply to the DIGI-DVI-T2-F or DIGI-DVI-T4-F send balun and power-on the unit.
6. Disconnect the destination monitor or projector.
7. Connect the DIGI-DVI-R-F receive balun to the DVI input of the destination device. Do **not** connect the 5V power supply.
8. Complete the connection between the send and receive baluns using one run of Shielded Cat 6 twisted pair cable. Ensure that there are no split pairs or taps.
9. Connect the 5V power supply to the DIGI-DVI-R-F receive balun.
10. Power-on the source device.
11. Connect an optional local monitor or projector to the local monitor output of the DIGI-DVI-T2-F or DIGI-DVI-T4-F.
12. Repeat steps 3-10 for additional DIGI-DVI-R-F receivers.

Technical Specifications

Video Amplifier Bandwidth	1.65 Gbps
Input DDC Signal	5 volts p-p (TTL)
Max Recommended Distance	220 feet
Input Video Signal	1.2 volts p-p
Connectors	One (1) DVI-D output connector and one (1) RJ45 input connector
Cabling	Shielded Cat 6
Power Supply	External 5 VDC
HDCP Encryption	Not supported
Enclosure	Metal
Dimensions	3.50" x 2.88" x 0.88"
Temperature	Operating: 0° to 55°C Storage: -20° to 85°C Humidity: up to 95%
Shipping Weight	1.0 lbs.
Compliance	CE, RoHS
Warranty	2 years
Ordering Information	<i>DIGI-DVI-R-F</i> : receive balun for use with an Intelix DIGI-DVIT2R-F or DIGI-DVIT4R-F system; includes power supply

The Intelix DIGI-DVI-R-F conforms to the DVI specifications and will work with other manufacturer's equipment that also conforms to these specifications. Intelix does not guarantee operation with non-conforming devices. **The Intelix DIGI-DVI-R-F does not support HDCP encryption.**

For proper operation, all destination devices must be set to the same resolution and refresh rate.

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