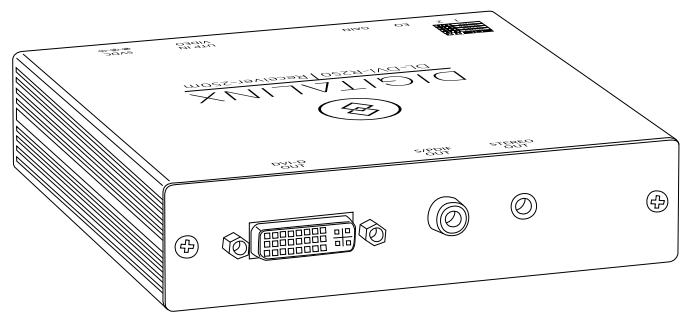
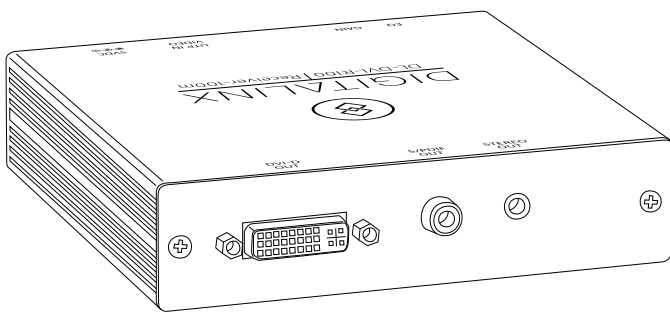
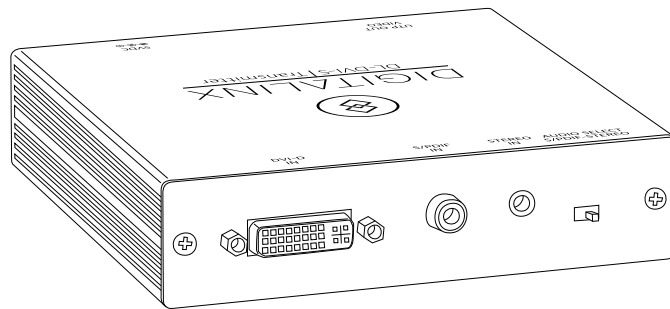


# DL-DVI Installation and Operation Guide



## Important Safety Instructions

- » Please completely read and verify you understand all instructions in this manual before operating this equipment.
- » Keep these instructions in a safe, accessible place for future reference.
- » Heed all warnings.
- » Follow all instructions.
- » Do not use this apparatus near water.
- » Clean only with a dry cloth.
- » Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- » Use only accessories specified or recommended by Intelix.
- » Explanation of graphical symbols:

◇ Lightning bolt/flash symbol: the lightning bolt/flash and arrowhead within an equilateral triangle symbol is intended to alert the user to the presence of uninsulated “dangerous voltage” within the product enclosure which may be of sufficient magnitude to constitute a risk of shock to a person or persons.



◇ Exclamation point symbol: the exclamation point within an equilateral triangle symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.



- » **WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE AND OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, SHOULD NOT BE PLACED ON THIS APPARATUS.**
- » Use the mains plug to disconnect the apparatus from the mains.
- » **THE MAINS PLUG OF THE POWER CORD MUST REMAIN READILY ACCESSIBLE.**
- » Do not defeat the safety purpose polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of your obsolete outlet. **Caution! To reduce the risk of electrical shock, grounding of the center pin of this plug must be maintained.**
- » Protect the power cord from being walked on or pinched particularly at the plugs, convenience receptacles, and the point where they exit from the apparatus.
- » Do not block the air ventilation openings. Only mount the equipment per Intelix’s instructions.
- » Use only with the cart, stand, table, or rack specified by Intelix or sold with the equipment. When/if a cart is used, use caution when moving the cart/equipment combination to avoid injury from tip-over.
- » Unplug this apparatus during lightning storms or when unused for long periods of time.
- » **Caution! Shock Hazard. Do not open the unit.**
- » Refer to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.





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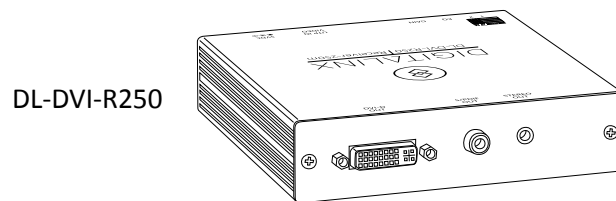
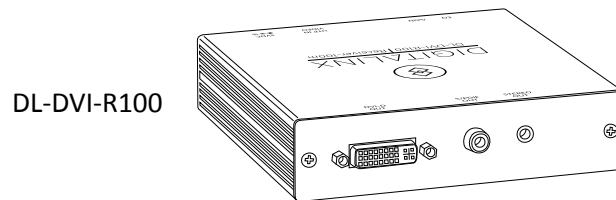
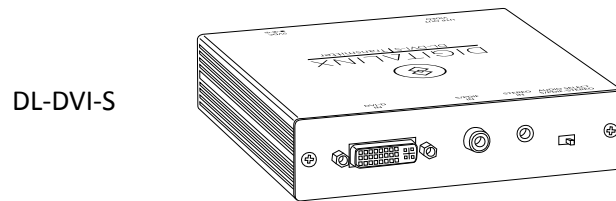
## Product Overview

The DigitaLinx DL-DVI extenders provide a means for the transmission of non-encrypted DVI-D signals at resolutions up to 1920x1200 and 1080p, plus either S/PDIF or analog stereo audio, over Category 5e or 6 cable at great distances. The system is fully compatible with all DVI 1.0 signals and seamlessly integrates the selected audio signal into the signal path. The unique locking power connectors are used to enhance overall system security.

The DL-DVI-S transmitter provides a built-in EDID table as a standard feature. The DL-DVI-S, used in conjunction with the DL-DVI-R100 receiver, can achieve distances up to 100 meters (328 feet). Use of the DL-DVI-R250 receiver can increase distances up to 250 meters (820 feet). Achieving such long distances with a DVI-D signal at 1080p requires use of a unique analog/digital hybrid transmission system. Both receivers provide gain and equalization adjustments. The DL-DVI-R250 receiver provides additional signal processing via two user selectable DIP switches which further equalize the DVI-D Video and the audio signals.

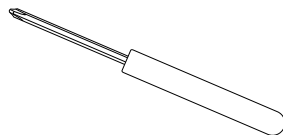
# Package Contents

The DL-DVI extender in the package will vary depending upon the product ordered.

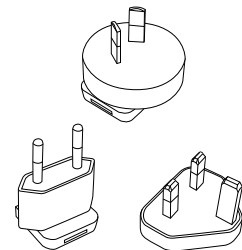


Please verify the following items are in the product box prior to installation of the DL-DVI extenders.

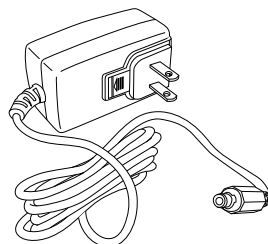
Alignment Screwdriver  
1 ea



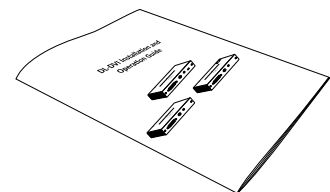
AU, EU, and UK AC  
Adapters  
1 ea



5V DC 2.6A Power  
Supply with US Plug  
1 ea

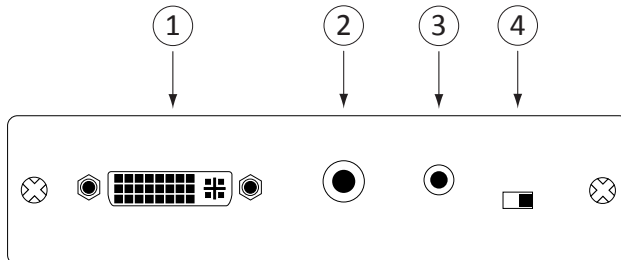


DL-DVI Installation and  
Operation Guide  
1 ea



# Front and Rear Panel Descriptions

## DL-DVI-S

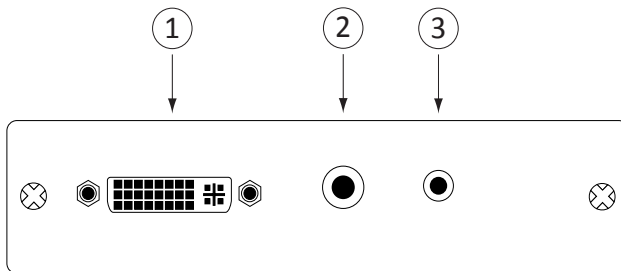


1. DVI-D Input
2. S/PDIF Input
3. Analog Audio Input
4. Audio Selection Switch

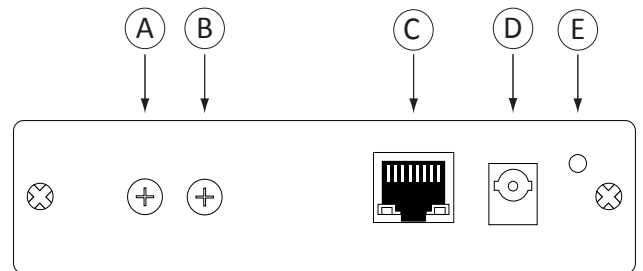


- A. Twisted Pair (UTP) Output
- B. 5V DC Input
- C. Power LED

## DL-DVI-R100

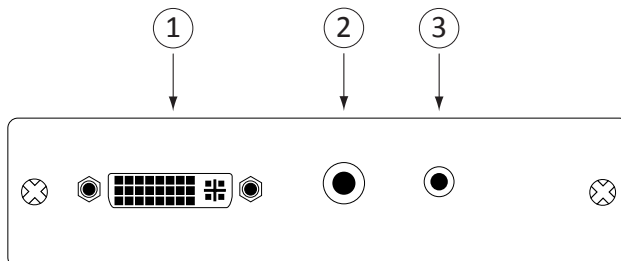


1. DVI-D Output
2. S/PDIF Output
3. Analog Audio Output

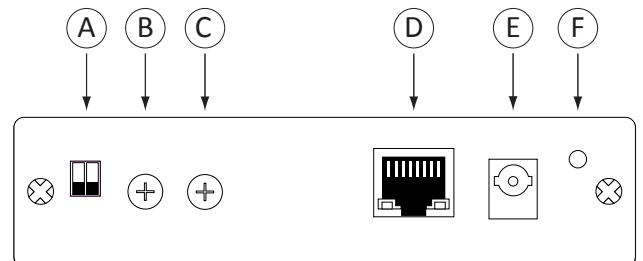


- A. EQ Adjustment
- B. Gain Adjustment
- C. Twisted Pair (UTP) Input
- D. 5V DC Input
- E. Power LED

## DL-DVI-R250



1. DVI-D Output
2. S/PDIF Output
3. Analog Audio Output



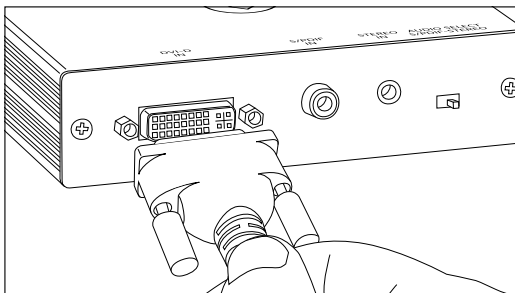
- A. Cable Distance Selectors
- B. EQ Adjustment
- C. Gain Adjustment
- D. Twisted Pair (UTP) Input
- E. 5V DC Input
- F. Power LED

# Installation Instructions

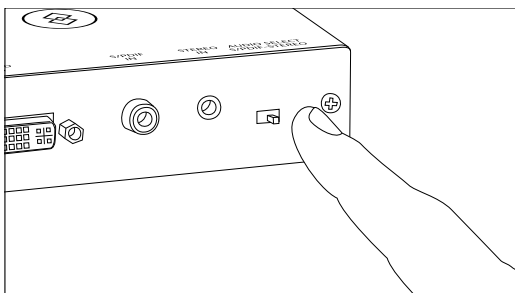
## Quick Start

1. Connect source
2. Connect display
3. Apply power
4. Adjust signal

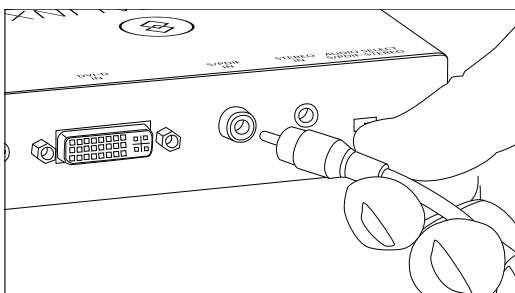
## Connect Source



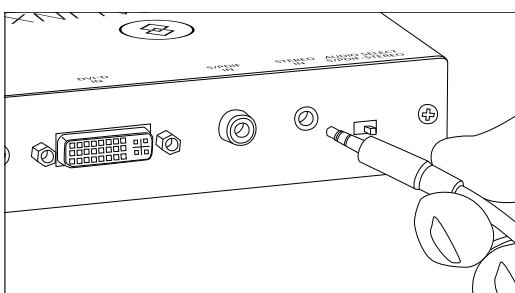
Connect the video source to the DL-DVI-S with a DVI-D cable.



Set the audio selector switch to the audio connection that will be used in the installation.

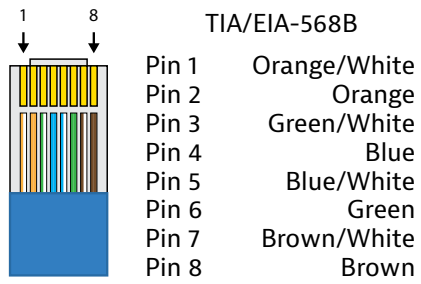


If using S/PDIF audio, connect the audio source to the DL-DVI-S with a coaxial S/PDIF cable.

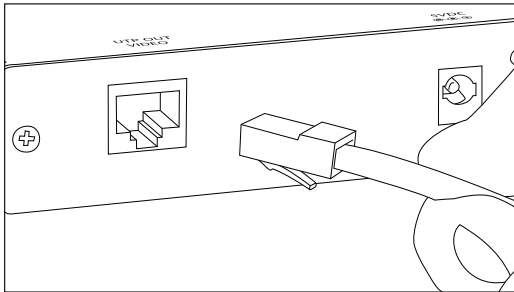


If using analog audio, connect the audio source to the DL-DVI-S with a 3.5 mm stereo audio cable.



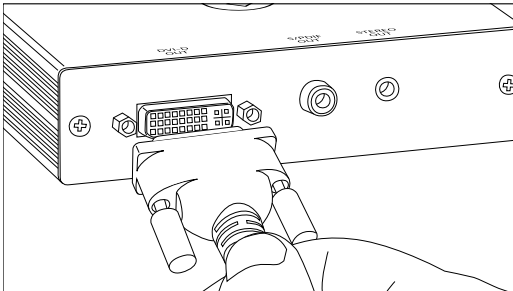


The UTP ports require a standard straight-through Category 5e or greater cable with the TIA/EIA-568B crimp pattern for optimal operation.

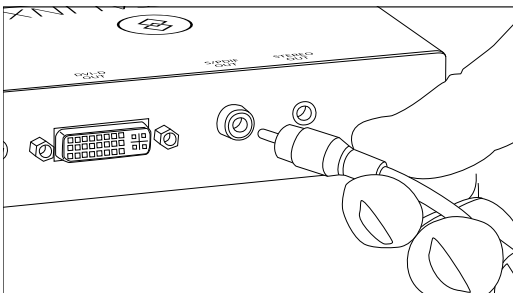


Connect the Category cable to the UTP port on the DL-DVI-S.

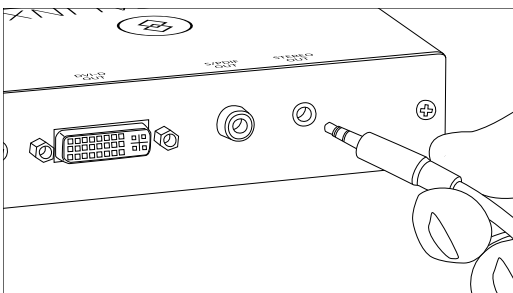
### Connect Display



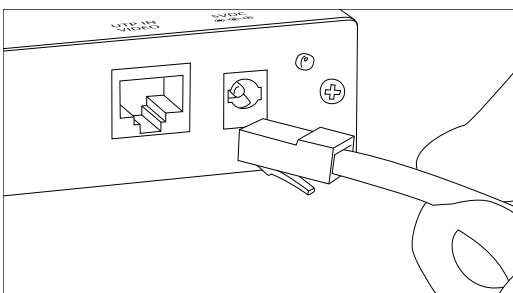
Connect the DL-DVI-R100 or DL-DVI-R250 to the display with a DVI-D cable.



If using S/PDIF audio, connect the audio output device to the DL-DVI-R100 or DL-DVI-R250 with a coaxial S/PDIF cable.

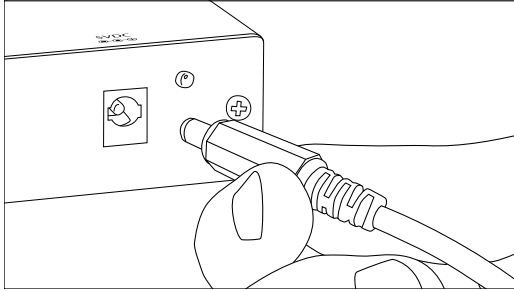


If using analog audio, connect the audio output device to the DL-DVI-R100 or DL-DVI-R250 with a 3.5 mm stereo audio cable.

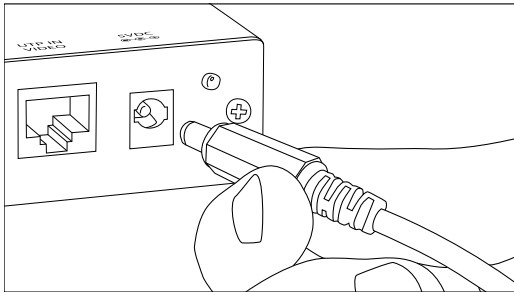


Connect the Category cable to the DL-DVI-R100 or DL-DVI-R250.

### **Connect Power**

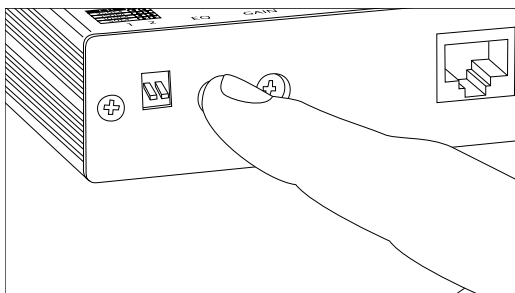


Connect the power supply to the 5V DC port on the DL-DVI-S.



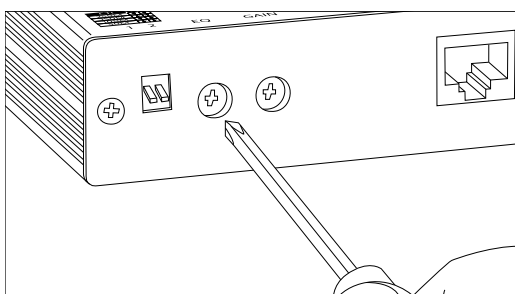
Connect the power supply to the 5V DC port on the DL-DVI-R100 or DL-DVI-R250.

### Adjust Signal

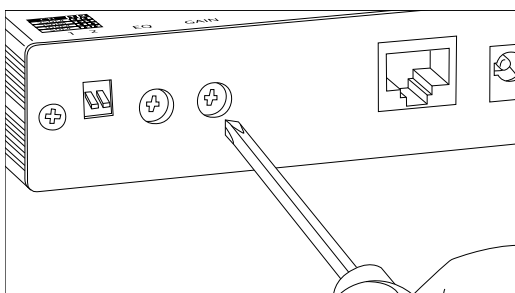


The DL-DVI-R250 features switches to provide a boost to the incoming signal based on the cable distance between the transmitter and the receiver.

CTI	1	2
250M	↑	↑
150M	↓	↑
100M	↑	↓
50M	↓	↓



If the image is blurry, adjust the EQ setting on the receiver until the image becomes clear.



If the image is dim or too bright, adjust the Gain setting on the receiver until the image becomes clear.

# Troubleshooting

## ***Extender does not power on***

- » Verify power outlet is active.
- » Verify power supply is functioning properly by using on another extender.

## ***Cannot see image***

- » Verify video source provides video to local display.
- » Verify display provides video to local video source.
- » Verify twisted pair cable wiring is terminated correctly.
- » Verify continuity of twisted pair cable.

## ***Image is blurry***

- » Adjust EQ control on the receiver.
- » Verify twisted pair cable length is within the capable distance of the receiver.

## ***Image is dim or bright***

- » Adjust Gain control on the receiver.

## ***Cannot hear audio***

- » Verify audio switch position is set correctly for the audio connection.
- » Verify audio source provides audio to local audio output device.
- » Verify audio output device provides audio to local audio source.
- » Verify source and destination signal types are the same.

# Technical Specifications

<b>I/O Connections (DL-DVI-S)</b>	
DVI-D Input	One (1) Female DVI-I Receptacle
Stereo Audio Input	One (1) 3.5 mm Jack (TRS)
S/PDIF (Coaxial) Audio Input	One (1) Female RCA Receptacle
5V DC Power	One (1) Locking Coaxial Barrel (5.5mm OD; 2.6mm ID)
Twisted Pair Output	One (1) 8P8C Port (RJ45)
Audio Mode Switch	One (1) Two Position Slider Switch
<b>I/O Connections (DL-DVI-R100/R250)</b>	
DVI-D Output	One (1) Female DVI-I Receptacle
Stereo Audio Output	One (1) 3.5 mm Jack (TRS)
S/PDIF (Coaxial) Audio Output	One (1) Female RCA Receptacle
5V DC Power	One (1) Locking Coaxial Barrel (5.5mm OD; 2.6mm ID)
Twisted Pair Input	One (1) 8P8C Port (RJ45)
Gain and EQ Adjustments	Two (2) Rotary Potentiometers
Rough Gain Stage Adjustment (DL-DVI-R250 only)	Two Switch DIP
<b>Supported Audio and Video</b>	
HDTV Video Resolutions	720p (1280x720), 1080p (1920x1080)
VESA Video Resolutions	800x600, 1024x768, 1152x864, 1280x768, 1280x800, 1280x960, 1280x1024, 1360x768, 1366x768, 1400x1050, 1440x900, 1600x900, 1680x1050, 1920x1200
Video Compatibility	DVI 1.0 (not HDCP compliant)
Audio Compatibility	PCM 2 channel
Maximum DVI-D and Audio Distance	5m (16 ft)
Maximum Extended Cable Distance (DL-DVI-R100)	100m (328 ft)
Maximum Extended Cable Distance (DL-DVI-R250)	250m (820 ft)
<b>Chassis and Environmental</b>	
Enclosure	Extruded Aluminum in Black Powdercoat
Dimensions	123mm x 125mm x 30mm (4.84 in x 4.92 in x 1.18 in)
Shipping Weight	0.7 kg (1.54 lbs)
Operating Temperature	0° to +40° C (+32° to +104° F)
Operating Humidity	20% to 90%, Non-condensing
Storage Temperature	-10° to +60° C (+14° to +140° F)
Storage Humidity	20% to 90%, Non-condensing
<b>Power, ESD, and Regulatory</b>	
Power Supply Input	100V-240VAC / 50-60 Hz / 0.1A
Power Supply Output	5VDC / 2.6A
Power Consumption	13 watts (max)
ESD Protection	±15 kV
Extender Regulatory	FCC, CE, RoHS
Power Supply Regulatory	UL, CUL, CE, PSE, GS, RoHS
<b>Other</b>	
Warranty	2 years
Diagnostic Indicators	Power LED
Included Accessories	Installation Guide, Wall Mount Power Supply, Power Supply Adapters (US, EU, UK, AU), Alignment Screwdriver

Distances and picture quality may be affected by cable grade, cable quality, source and destination equipment, RF and electrical interference, and cable patches. DigitalInX specifications are based on straight-through cabling with standard-grade Cat 5e unless noted otherwise.



Thank you for your purchase.

Please contact us with your questions and comments.

11675 Ridgeline Drive  
Colorado Springs, Colorado  
80921 USA

Phone: 719-260-0061  
Fax: 719-260-0075  
Toll-Free: 800-530-8998

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