

CrystalView DVI Micro Extender

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Quick Start Guide



CrystalView DVI Micro Fiber Extender



Limited Warranty

Rose Electronics® warrants the CrystalView™ Extender to be in good working order for one year from the date of purchase from Rose Electronics or an authorized dealer. Should this product fail to be in good working order at any time during this one-year warranty period, Rose Electronics will, at its option, repair or replace the Unit as set forth below. Repair parts and replacement units will be either reconditioned or new. All replaced parts become the property of Rose Electronics. This limited warranty does not include service to repair damage to the Unit resulting from accident, disaster, abuse, or unauthorized modification of the Unit, including static discharge and power surges.

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NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

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FCC and EU Declaration of Conformity

FEDERAL COMMUNICATIONS COMMISSION AND INDUSTRY CANADA RADIO-FREQUENCY INTERFERENCE STATEMENTS

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, that is in strict accordance with the manufacturer's instructions may cause interference to radio communication. It has been tested and found to comply with the limits for a Class A digital device in accordance with the specifications of Part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This digital apparatus does not exceed the Class A limits for radio noise emission from digital apparatus set out in the Radio Interference Regulation of Industry Canada.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le Règlement sur le brouillage radioélectrique publié par Industrie Canada.

FCC

This device complies with part 15 of the FCC rules.

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interface, and
- (2) this device must accept any interface received, including interface that may cause undesired operation.

Disclaimer

While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions. Neither does the manufacturer assume any liability for damages resulting from the use of the information contained herein. The manufacturer reserves the right to change the specifications, functions, or circuitry of the product without notice.

The manufacturer cannot accept liability for damages due to misuse of the product or other circumstances outside the manufacturer's control. The manufacturer will not be responsible for any loss, damage, or injury arising directly or indirectly from the use of this product.

Introduction

Thank you for choosing the Rose Electronics CrystalView DVI Micro Extender. The CrystalView DVI Micro extends up to 2,300 feet (700 meters) over a single SC-type multi-mode fiber cable. Individual DVI Video Monitors can be extended away from the host PC using the CrystalView DVI Micro extender.

The extension system consists of two units, a transmitter and a receiver. The transmitter connects directly to your PC's DVI port, or the DVI port of any video output device.

No add-on cables or adapters are required. The receiver unit connects directly to the LCD monitor or display screen. The instructions in this manual assume a general knowledge of computer installation procedures, familiarity with cabling requirements, and some understanding of DVI device operation.

Features

The CrystalView DVI Micro system consists of a DVI Fiber Transmitter and a DVI Fiber Receiver. The Transmitter connects directly to a computer's DVI port. The Receiver connects directly to the DVI port of a digital display. The Transmitter and Receiver units connect together with standard multimode optical cable with SC type connectors.



EDID Settings

The factory EDID settings can be changed by the following procedure:

1. Apply power to the DVI monitor
2. Connect the Transmitter unit to the monitor
3. Plug in the 5V DC power adapter into the power jack on the transmitter
4. Verify that the Transmitter LED blinks rapidly for a few seconds
5. When the blinking stops, the EDID information from the connected DVI monitor is saved in the Transmitter unit
6. Disconnect the Transmitter from the DVI monitor, unplug the power adapter and connect the Transmitter to the computer's DVI port
7. Connect the Receiver unit to the DVI monitor and connect the power adapter to the Receiver's power jack
8. Connect the multimode fiber cable between the Transmitter and Receiver units
9. Re-Start the connected computer

NOTE: If the Transmitter's power LED does not light up, connect the power adapter to the power jack

NOTE: Multi-mode SC-type fiber cable must be used

CAUTION

Use only the included DC adapter (5V, 2A) for the receiver unit. The transmitter uses the computer power. No external DC adapter is required for the transmitter. Some computers cannot supply sufficient power to the transmitter. In this case, use the external DC adapter for the receiver.

Specifications

Resolution	Up to 1920 x 1200
Bandwidth	1.65Gbps, Single Link DVI Video
Connectors	a) DVI-D 24 pin male video connector b) SC type fiber connector
Power	100 – 240 VAC – 5VDC, 2A. 1.0W Max (Transmitter or Receiver) Transmitter: optional +5V / 2A adapter. Receiver: +5V / 2A adapter
Dimensions (W x D x H)	1.57 x 2.61 x 0.6 inches 40.0 x 66.4 x 15.0 mm
Environmental	
Operating Temp	32°F - 122°F (0°C - 50°C)
Storage Temp	-4°F - 158°F (-20°C - 70°C)
	Optical Characteristics
Source	850nm VCSEL
O/E Converter	Pin Photo Diode
Cable Type	50/125 SC type multi-mode fiber

Part Numbers

CRK-T1DFMDM	CrystalView DVI Micro Extender
CRK-T1DFMDM/HDCP	CrystalView DVI Micro Extender/HDCP

Troubleshooting

a) No display on the DVI monitor

- Check if the PC power is on.
- Check if connection to the computer and the monitor are correct.
- Turn the PC power off and on again.

b) Noise is shown on the screen.

- Check the DVI connection.
- Check the display resolution.
- If the malfunction is not fixed by the above measures, please contact technical support

Technical Support

If you are experiencing problems, or need assistance in setting up, configuring or operating your CrystalView DVI Micro, consult the troubleshooting section of this manual. If, however, you require additional information or assistance, please contact the Rose Electronics Technical Support Department at:

Phone: (281) 933-7673

E-Mail: TechSupport@rose.com

Web: www.rose.com

Technical Support hours are from: 8:00 am to 6:00 pm CST (USA), Monday through Friday.

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