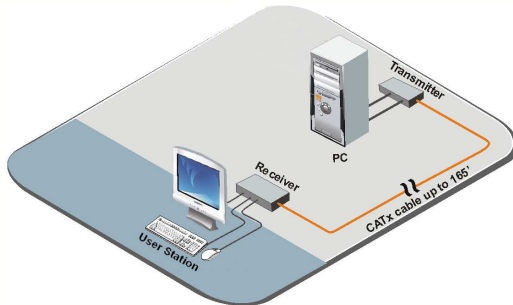


ROSE.COM

Installation and Operations Manual



LIMITED WARRANTY

Rose Electronics warrants the CrystalView DVI Mini 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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CE Declaration Of Conformity

The products listed below in the form as delivered comply with the provisions of the following European Directives:

2004/108/EG Council Directive on the approximation of the laws of the Member States relating to electromagnetic compatibility



CE Marking 2009

Product list:

CRK-M1DTXUD1D / CRK-M1DTXUD2D
CRK-M1DTXTD1D / CRK-M1DTXTD2D

The products comply with the following harmonized standards for Information Technology Equipment:

- EN 55022:2006 + A1:2007 (Class A)
- EN 55024:1998 + A1:2001 + A2:2003
-

This declaration certifies the conformity to the specified directives but contains no assurance of properties. The safety instructions and installation guidelines noted in this manual shall be considered in detail. Compliance with the specifications for cable lengths and types is mandatory.

Use in a Domestic Environment

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.

RoHS compliance

All CrystalView DVI Mini models comply with the EC Directive 2002/95/EG on the Restriction of the use of certain Hazardous Substances in electrical and electronic equipment.

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System Introduction

Thank you for choosing the Rose Electronics® CrystalView™ DVI Mini KVM station extender. The CrystalView DVI Mini is the result of Rose Electronics commitment to providing state-of-the-art solutions for today's demanding workplace. The CrystalView DVI Mini has proven to be a valuable investment for any business, big or small, that has a need to access their computer from a remote location. Using the CrystalView DVI Mini, you can locate the remote user station up to 165ft. (50m) away and have full control of the computer.

The CrystalView DVI Mini is available in four models; single and dual head, HID USB and single and dual head USB 2.0 transparent. The dual head model allows a second video input to be connected to the transmitter unit.

The CrystalView DVI Mini system consists of two Units, a transmitter and a receiver unit. The transmitter connects to your computer's DVI-D SingleLink graphic card and a USB Type A port. The receiver unit connects to a USB keyboard, DVI video monitor and a USB mouse. The transmitter and receiver units are connected together with industry standard CATx S/UTP cable terminated with RJ45 connectors. All models can extend the distance from the CPU up to 165 feet. CAT-x cable can be ordered from Rose Electronics in 25-1,000 foot lengths.

Using the CrystalView DVI Mini to remotely access your computer has several applications that make it convenient for the users. You can locate your computer in a secure area and access them from other unsecured areas. Computers used in hazardous industrial environments can be accessed remotely, keeping the users safe and unexposed to any hazards.

Disclaimer

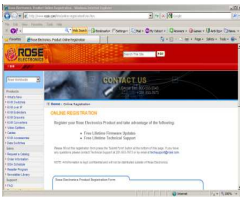
While every precaution has been taken in the preparation of this manual, the manufacturer assumes no responsibility for errors or omissions. Neither does the manufacturer assume any liability for damages resulting from the use of the information contained herein. The manufacturer reserves the right to 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.

About This Manual

This manual covers the installation, configuration, and the operation of the CrystalView DVI Mini extender system. The system consists of a transmitter and receiver units, a computer to remotely access, and a remote KVM user station for remote access to the computer. The “Model” section describes the front and rear panel of the transmitter and receiver units. The “Installation” section describes how all components are interconnected and configured.

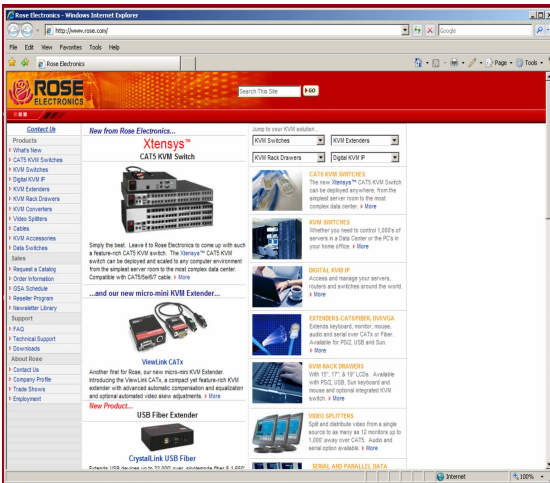
Product Registration



Register your product for future updates at:
www.rose.com/htm/online-registrationform.htm

Rose Electronics KVM Web Site

Visit our web site at www.rose.com for additional information on the CrystalView DVI Mini and other products designed for data center applications, classroom environments, and many other applications.



Features

- Single-Link - single or dual head models available
 - Single head supports:
 - 1 DVI-D graphic card and 2 USB HID devices or
 - 1 DVI-D graphic card and USB 2.0 devices
 - Dual head supports:
 - 2 DVI-D graphic cards and 2 USB HID devices or
 - 2 DVI-D graphic cards, 2 HID devices, and USB 2.0 devices
- Supports all operating systems and computers with a DVI-D graphic interface (uncompressed)
- Video resolutions up to: (Solid core AWG24 CATx cable)
 - 1920 x 1200 @ 130 feet (40 meters)
 - 1920 x 1080 @ 130 feet (40 meters)
 - 1600 x 1200 @ 130 feet (40 meters)
 - 1280 x 1024 @ 165 feet (50 meters)

NOTE: Using AWG 26/8 patch cable will reduce the distance by approximately 50%.
- No video quality degradation at all resolutions
- Use the internal EDID configuration or DDC information from the remote monitor
- Supports USB keyboards, mice and other HID devices like touch screens and graphic tablets
- The USB 2.0 models supports scanners, web cams, memory devices, and other USB 2.0 devices
- Selectable CATx cable length settings provides for the best, clearest image
- Automatic or manual resolution configuration
- Firmware upgradeable
- Rackmount kits available

Package Contents

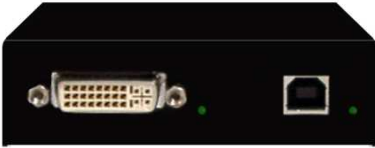
- CrystalView DVI Mini Transmitter and Receiver as ordered
- 2 – 5VDC international power adapter units
- 2 – Power cords
- 1 – DVI-D mm video cable
(2 cables included with the dual head model)
- 1 – USB cable (Type A to Type B)
(2 cables included with the dual head model)
- Installation Guide

CrystalView DVI Mini Models

The CrystalView DVI Mini is available in the following models:

Single head USB HID – part number CRK-M1DTXUD1D

Transmitter - Front View



DVI-D video input
USB Type B

Transmitter - Rear View



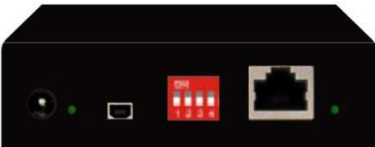
Power +5VDC
Programming port
Configuration Dip switches
RJ45

Receiver – Front View



DVI-I video output
2 – USB HID Type A

Receiver – Rear View



Power +5VDC
Programming port
Configuration Dip switches
RJ45

Figure 1. Single Head USB HID Model

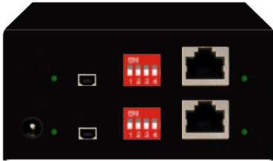
Dual head USB HID – part number CRK-M1DTXUD2D

Transmitter - Front View



2-DVI-D video input
2-USB Type B

Transmitter - Rear View



Power +5VDC Option
2-Programming ports
2- Configuration Dip switches
2-RJ45 connectors

Receiver – Front View



2-DVI-I video outputs
4-USB HID Type A

Receiver – Rear View



Power +5VDC
2-Programming ports
2-Configuration Dip switches
2-RJ45 Link

Figure 2. Dual head USB HID Model

NOTE: Single and Dual head USB-HID models support two and only two USB-HID devices.

Single head USB 2.0 – part number CRK-M1DTXTD1D

Transmitter - Front View



DVI-D video input
USB 2.0 Type B

Transmitter - Rear View



Power +5VDC
Programming port
2-RJ45 Link
Configuration Dip switches

Receiver – Front View



DVI-I video output
4 – USB 2.0 Type A

Receiver – Rear View



Power +5VDC
Programming port
2-RJ45 Link
Configuration Dip switches

Figure 3. Single head USB 2.0

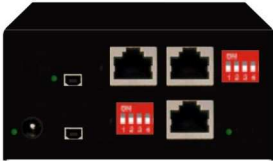
Dual Head USB 2.0 - CRK-M1DTXTD2D

Transmitter - Front View



2-DVI-D video input
2-USB Type B

Transmitter - Rear View



Power +5VDC Option
2-Programming ports
3-RJ45 Link ports
2-Configuration Dip switches

Receiver – Front View



2-DVI-I video outputs
2-USB HID Type A
4-USB 2.0 Type A

Receiver – Rear View



Power +5VDC
2-Programming ports
2-Configuration Dip switches
3-RJ45 Link

Figure 4. Dual head USB 2.0 Model

Compatibility

Video

Supports all DVI-D video signals that comply to the DVI-D Single Link protocol. This includes resolutions up to 1920 x 1200 @ 60Hz, full HD video (1080p), 2K HD (up to 2048 x 1152). Data rate is limited to 165 MP/s. Interlaced video signals (1920 x 1080i) are not guaranteed.

USB HID

USB-HID models support a MAXIMUM of two USB-HID devices compliant with USB-HID protocol. Each USB-HID port provides a maximum current of 100 mA. Other USB-HID devices such as touch screens, graphic tablets, and barcode readers are also supported. Support can not be guaranteed for all USB-HID devices.

Keyboard

Compatible with most USB keyboards including keyboards with integrated USB Hubs. Some keyboards with special keys/functions may not be supported.

Mouse

Compatible with most USB 2-button, three-button, and scroll mice.

USB 2.0 Transparent

USB 2.0 models support scanners, web cams, memory devices and other USB 2.0 transparent devices. Data transfer rates up to 480Mbit/s is supported. Each USB 2.0 transparent port supplies a maximum current of 500 mA.

Interconnect link

The CrystalView DVI Mini Extenders require cabling specified for Gigabit Ethernet (1000BASE-T). The use of solid-core (AWG24), shielded, CAT 5e (or better) is recommended.

CAT x Solid-Core Cable AWG24	S/UTP (CAT 5e) cable according to EIA/TIA-568-B. Four pairs of wires AWG24. Connection according to EIA/TIA-568-B (1000BASE-T).
CAT x Patch Cable AWG26/8	S/UTP (CAT 5e) cable according to EIA/TIA-568-B. Four pairs of wires AWG26/8. Connection according to EIA/TIA-568-B (1000BASE-T).

Maximum CATx Cable Length

CAT x Solid-Core Cable AWG24	40 m (120 ft) at 1920x1200 and 1600x1200 50 m (150 ft) at 1280x1024 and less
CAT x Patch Cable AWG26/8	20 m (60 ft) at 1920x1200 and 1600x1200 30 m (90 ft) at 1280x1024 and less

NOTE: CATx patch cables reduces the distances by approximately 50%

Unit Installation

The installation guide section describes a typical installation for all four models. See the installation section for your particular model.

It is recommended that power to all equipment be off until all cabling is in place. Refer to Figure 5

Single head (USB-HID model) Installation

Transmitter Installation

1. Connect the supplied DVI-D male-to-male cable from the computer's DVI video out connector to the Transmitter's DVI-D video in connector.
2. Connect the supplied USB Type A to Type B cable from a USB port on the computer to the USB Type A connector on the Transmitter.
3. Connect the supplied power adapter to the Transmitter. (Do not apply power at this time)

Receiver Installation

4. Connect a DVI monitor, USB keyboard, and USB mouse to the corresponding connectors on the Receiver unit.
5. Connect the supplied power adapter to the Receiver. (Do not apply power at this time)

Transmitter to Receiver Connection

6. Connect up to 150 ft. (50 m) of CAT5e or better cable from the RJ45 connector on the Transmitter to the RJ45 connector on the Receiver.

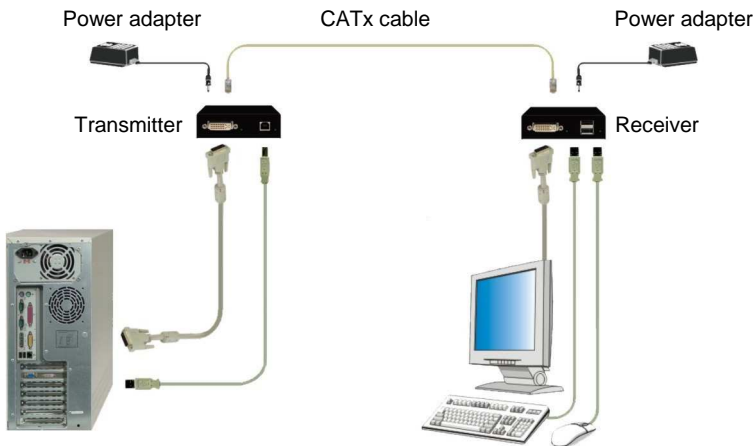


Figure 5. Single head Installation (USB-HID)

Dual head (USB-HID model) Installation

Transmitter Installation

1. Connect the two supplied DVI-D male-to-male cables from the computer's DVI video out connectors to the two Transmitter's DVI-D video in connectors.
2. Connect the two supplied USB Type A to Type B cables from a USB port on the computer to the two USB Type A connectors on the Transmitter.
3. Connect the supplied power adapter to the Transmitter.
(Do not apply power at this time)

Receiver Installation

4. Connect a DVI monitor, USB keyboard, and USB mouse to the corresponding connectors on the Receiver unit.
5. Connect a second DVI monitor to the second DVI-D video out connector.
6. Connect the supplied power adapter to the Receiver. (Do not apply power at this time)

Transmitter to Receiver Connection (See diagram below)

7. Connect up to 150 ft. (50 m) of CAT5e or better cable from the RJ45 connectors on the Transmitter to the RJ45 connectors on the Receiver.

NOTE: USB-HID models support a maximum of two USB-HID devices.

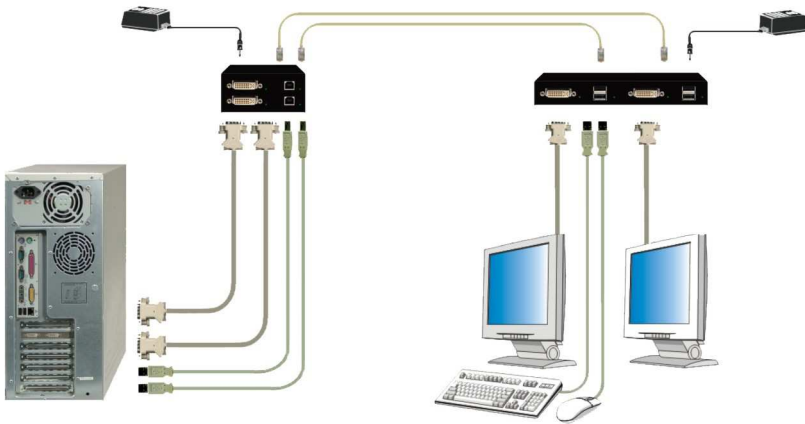
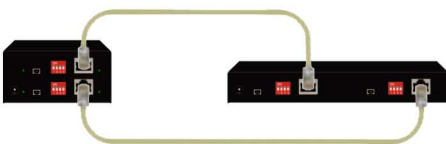


Figure 6. Dual head Installation (USB-HID)



CATx cabling is connected as shown to the left. Up to 150 ft. max.

Single head (USB-2.0 model) Installation

Transmitter Installation

1. Connect the supplied DVI-D male-to-male cable from the computer's DVI video out connector to the Transmitter's DVI-D video in connector.
2. Connect the supplied USB Type A to Type B cable from a USB port on the computer to the USB Type A connector on the Transmitter.
3. Connect the supplied power adapter to the Transmitter. (Do not apply power at this time)

Receiver Installation

4. Connect a DVI monitor, USB keyboard, and USB mouse to the corresponding connectors on the Receiver unit.
5. Connect the USB 2.0 transparent devices to the USB ports
6. Connect the supplied power adapter to the Receiver.

Transmitter to Receiver Connection

7. Connect two CAT5e or better cable from the RJ45 connectors on the Transmitter to the RJ45 connectors on the Receiver.



Figure 7. Single head Installation (USB-2.0)



CATx cabling is connected as shown to the left. Up to 150 ft. max.

Dual head (USB-2.0 model) Installation

Transmitter Installation

1. Connect the two supplied DVI-D male-to-male cables from the computer's DVI video out connectors to the two Transmitter's DVI-D video in connectors.
2. Connect the two supplied USB Type A to Type B cables from a USB port on the computer to the two USB Type A connectors on the Transmitter.
3. Connect the supplied power adapter to the Transmitter.
(Do not apply power at this time)

Receiver Installation

4. Connect a DVI monitor, USB keyboard, and USB mouse to the corresponding connectors on the Receiver unit.
5. Connect a second DVI monitor to the second DVI-D video out connector.
6. Connect the USB 2.0 transparent devices to the USB ports
7. Connect the supplied power adapter to the Receiver. (Do not apply power at this time)

Transmitter to Receiver Connection

8. Connect up to 150 ft. (50 m) of CAT5e or better cables (3) from the RJ45 connectors on the Transmitter to the RJ45 connectors on the Receiver.

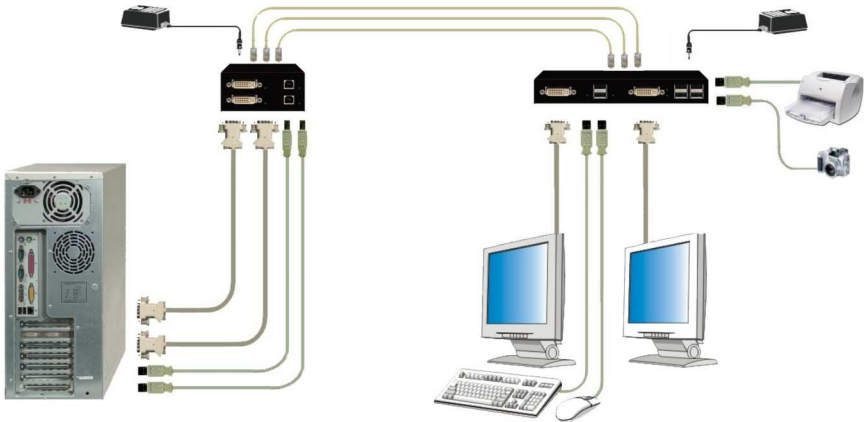
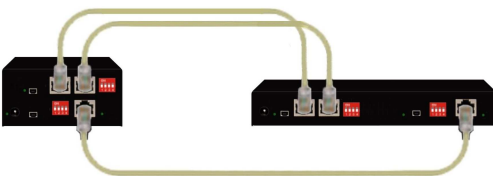


Figure 8. Dual head Installation (USB-2.0)



CATx cabling is connected as shown to the left. Up to 150 ft. max.

When all cabling is in place, power up the system in the following recommended sequence:

1. Monitor(s)
2. Receiver unit
3. Transmitter unit
4. Computer

Dip Switch Settings

The configuration Dip-Switches are located on the front panel of the transmitter and the receiver units.

The Dip-Switches on the transmitter are used to set the monitor resolution. The default switch setting (Automatic control - #1 and #2 Off) will automatically adapt to the remote monitor resolution. The default setting should only be modified if the cable length goes to or beyond the specified limits or the image quality is not satisfactory.

Switch #4 selects the operating mode; standard or firmware update.

Switch #4 must be OFF (down) for standard operation.

Transmitter Dip-switch settings









DIP Switch Position	Function
	Monitor Resolution: Automatic adjustment (Default)
	Monitor Resolution: up to 1280 x 1024
	Monitor Resolution: larger than 1280 x 1024
	Configuration for Maximum Distance transmission, Independent of Monitor Resolution
	Send stored DDC information to CPU (Default setting) Allow reading of the DDC information from the monitor
	Reset and send only the factory default DDC information
	Standard Operation mode: Standard operation (Default) Dip-Switch 4 must be in the "OFF" (down) position during normal operation
	Test operation mode: Firmware update Set only during Firmware Update, if required

Figure 9. Transmitter Dip switch settings

Receiver Dip-switch settings

The receiver Dip-switches are used to adjust the CATx cable length. The installation cable should be Type AWG24. Patch cables or flexible CATx cables (AWG26/7) may be used but this reduces the cable distance by approximately 50%. Keep this in mind when adding flexible cabling.

The default switch setting is preset for automatic adjustment. This setting is acceptable for most configurations. The default setting should only be changed if the CATx cable length is short or the image quality is not satisfactory.









DIP Switch Position	Function
	Automatic cable length adjustment (Default setting)
	Cable length greater than 33 ft. (10 m)
	Cable length greater than 66 ft. (20 m)
	Max. cable length: use this setting if exceeding the max recommended cable length or if the video quality is not acceptable using the automatic adjustment setting.
	Inhibits reading of the DDC information from the attached monitor
	Allows reading of the DDC information from the attached monitor
	Standard Operation mode: Standard operation (Default) Dip-Switch 4 must be in the "OFF" (down) position during normal operation
	Test operation mode: Firmware update Set only during Firmware Update, if required

Figure 10. Receiver Dip switch settings

CATx cables should have ferrites on both ends of the cable close to the transmitter and receiver's RJ45 connector.

A point to point connection is required.

Patch panels in the line are allowed

Command Mode

The command mode is not available on the USB-2.0 single head model. It is used to initiate an automatic readjustment of the transmission parameters and read the DDC information from the attached monitor. The command mode is invoked by pressing the Left Shift key twice, then the hot key. <Left shift> + <left Shift> is the default key sequence to invoke the command mode. This can be changed to 1 of 7 key sequences. While in the command mode, the Shift and Scroll LEDs will flash. To exit the command mode, press the Esc key.

Function	Keyboard Command
Enter Command Mode (default)	<Left Shift> , <Left Shift>
Exit Command Mode	<Esc>
Change 'Hot key' sequence (see below table)	<Left Ctrl>+<Left Shift>+<c>, <Hot key code>,<Enter>

'Hot Key' Code	New 'Hot Key' Sequence
1	<Left Ctrl>+<Left Shift>
2	<Scroll>,<Scroll>
3	<Left Shift>,<Left Shift>
4	<Left Ctrl>,<Left Ctrl>
5	<Left Alt>,<Left Alt>
6	<Right Shift>,<Right Shift>
7	<Right Ctrl>,<Right Ctrl>
8	<Right Alt>,<Right Alt>

<key> + <key> Press the keys simultaneously

<Key> , <key> Press the keys successively

Example:

To change the 'Hot Key' from the default to <Right Shift> , <Right Shift>

Press the Left Ctrl, Left Shift, c key, the 6 key, and press enter.

The key sequence to enter the command mode is now changed.

To perform an auto-adjust (USB-HID models only) enter the command mode <Left Shift> , <Left Shift> then press the <a> key.

The screen will blank for a short time, then the unit will exit the command mode and the transmission parameters will be re-adjusted for optimum video quality.

DDC Information

The CrystalView DVI Mini has preset DDC information that is sent to the source computer. If this factory preset DDC information is not appropriate, you can read the attached monitor's DDC information and the CrystalView DVI mini will use these values. There are two ways to read the DDC information from the attached monitor.

1. Using keyboard commands during operation
2. Disconnecting and re-connecting the monitor at the receiver unit

The Dip switches must be set correctly to properly read the DDC information.

Using Keyboard commands

Perform the following command sequence to read the DDC information from the attached monitor (except for the single-head, USB 2.0 model).

1. Enter the command mode <Left Shift> , <Left Shift> (press left shift twice)
NOTE: If the hot key has been changed, use the new hot key sequence.
Shift and Scroll LEDs will flash
2. Press the <2> key, then <Enter> to read the DDC information.
The monitor will blank for a short time, then will exit the command mode
The CPU can now read the monitor DDC information and allow the video resolution to be selected.
3. Enter the command mode again <Left Shift> , <Left Shift>
4. Press the <1> key, then <Enter>
The CrystalView DVI Mini will exit the command mode. The DDC information from the attached monitor has now been updated.

Disconnecting and re-connecting the monitor

Verify that the monitor is on (both monitors on the dual-head model)

1. Set the Dip switch #3 on the receiver unit to the "ON" (up) position.
2. Disconnect and re-connect the monitor cable from the receiver unit (Both monitor cables on the dual-head model)
Upon re-connecting the monitor cable(s), the DDC information will be read from the monitor and transmitted to the CPU. The "Video OK" LED will flash for about one second on both the transmitter and receiver units to indicate that programming was successful
3. Set the Dip switch #3 on the receiver unit back to the "OFF" (down) position.

Compatibility Information

The CrystalView DVI Mini is compatible with the following:

- Video
 - DVI-D SingleLink
 - TMDS Signal Levels
- Mouse
 - USB 2-button
 - USB 3-button
 - USB wheel
- Keyboard
 - Standard keyboards
 - Keyboards with built-in USB Hubs
 - Keyboards with enhanced features may be supported but support for all HID devices can not guaranteed
- USB-HID models
 - Supports HID devices only ie. Keyboards, mice, Touch Screens, Graphic tablets, barcode readers, etc. Does not support devices like scanners, web cams, memory devices, etc. Each USB-HID port provides a maximum current of 100mA. Only two USB-HID devices are supported concurrently.
- USB 2.0 models
 - Supports all types of USB 2.0 devices like scanners, web cams, memory devices at USB high speed (max. 480 Mbits/s)

Note: CrystalView DVI Mini, USB-HID models support two and only two USB HID devices – keyboard and mouse, keyboard and touch screen, but not keyboard, mouse, and touchscreen. Hubs are allowed but only two USB devices supported.

System Operation

Operating the CrystalView DVI Mini is no different than operating your computer normally. All computer functions and applications can be performed normally. The only difference is your keyboard, monitor, and mouse can be up to 165 feet away from the computer.

With the USB 2.0 transparent models you can extend your USB peripherals as well as your keyboard, monitor, and mouse.

Diagnostics

(See Appendix C)

Troubleshooting

Video

Diagnosis	Possible Reason	Possible Solution
Power LED off	Power supply	Check power supply units and the connection to the mains.
Link Status LED off	Connection between Transmitter and Receiver unit	Check the CATx cable and connections
Video OK LED off (Transmitter)	No video signal detected From the source	Check DVI-D cable to CPU. Download DDC information from monitor Reboot CPU if necessary
Video OK LED off (Receiver)	No monitor detected	Check connection, length and quality of the DVI-D cable to monitor, tighten cable thumbscrews
	No video signal detected from CPU Unit	Check connection, length and quality of interconnect cable between the units. Download DDC information from monitors. Reboot CPU if necessary
	Suboptimal transmission parameters	Execute Auto-Adjust manually adjust monitor resolution

USB-HID

USB Status LED off (Transmitter)	No USB connection to the computer	Check connection of USB cable to CPU, select another USB port if necessary. Remove USB and power cable and restart CPU. Connect power cable first.
USB Status LED off (Receiver)	Check USB connection	Check connection of USB cable to USB-HID device. Remove DVI and power cable and restart CON Unit. Connect power cable first.
USB device does not function	USB-HID device is not supported	Contact tech support if necessary.

USB-2.0

Link Status USB LED off	Connection between Transmitter and receiver	Check CATx cable and connections.
	USB controller (Receiver Unit)	Check USB Status LED at the Receiver Unit.
Link Status USB LED is flashing	Source (computer, CPU)	Check status (standby, sleep mode)
	USB controller (Receiver Unit)	Check USB Status LED on Receiver Unit
USB Status LED off on Transmitter	No USB connection to CPU	Check connection of USB cable to CPU, select another USB port if necessary. Remove USB and power cable and restart CPU Unit. Connect power cable first.
USB Status LED off on Receiver	Problem with USB connection	Check connection of USB cable to USB-HID device. Remove DVI and power cables and restart the Receiver Unit. Connect power cable first.
USB device without function	Device not detected by CPU	Check installation including required drivers. Reconnect USB device. Contact Tech support if necessary.

Product Safety

Please note the following safety guidelines to ensure product reliability and a safe, long-term operation:

- Except where explained in this manual, do not attempt to service this Unit yourself.
- Do not use this Unit near water.
- CrystalView DVI Mini is for indoor use only, do not link between buildings
- Do not connect the CATx cable to any other equipment, especially network or telecommunication equipment
- Assure that the placement of this Unit is on a stable surface.
- Provide proper ventilation and air circulation.
- Keep connection cables clear of obstructions that might cause damage to them.
- Use only power cords, power adapter and connection cables designed for this Unit.
- Connect the power adapters to a grounded outlet. Ensure that the ground connection is maintained from the outlet to the power adapter
- Keep objects that might damage this Unit and liquids that may spill, clear from this Unit. Liquids and foreign objects might come in contact with voltage points that could create a risk of fire or electrical shock.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from its electrical outlet before cleaning.
- Unplug this Unit refer servicing to a qualified service center if any of the following conditions occur:
 - The connection cables are damaged or frayed.
 - The Unit has been exposed to any liquids.
 - The Unit does not operate normally when all operating instructions have been followed.
 - The Unit has been dropped or the case has been damaged.
 - The Unit exhibits a distinct change in performance, indicating a need for service.

Service Information

Maintenance and Repair

This Unit does not contain any internal user-serviceable parts. In the event a Unit needs repair or maintenance, you must first obtain a Return Authorization (RA) number from Rose Electronics or an authorized repair center. This Return Authorization number must appear on the outside of the shipping container.

See Limited Warranty for more information.

When returning a Unit, it should be double-packed in the original container or equivalent, insured and shipped to:

Rose Electronics
Attn: RA _____
10707 Stancliff Road
Houston, Texas 77099 USA

Technical Support

If you are experiencing problems, or need assistance in setting up, configuring or operating your CrystalView DVI Mini, consult the appropriate sections 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.

Please report any malfunctions in the operation of this Unit or any discrepancies in this manual to the Rose Electronics Technical Support Department.

Appendix A - Specifications

Maximum resolution	Up to 1920 x 1200 @ 60Hz	
Max. cable length (AWG24)	150 ft (50m) @ 1280 x 1024 or less 120 ft (40m) @ 1920 x 1200 and 1600 x 1200 Patch cable (AWG26/8) will reduce the length by approximately 50%	
Video compatibility	DVI-D Single Link	
Keyboard	USB	
Mouse	USB 2-button, 3-button, wheel	
Power	Single Head – Transmitter – 5VDC / 800 mA USB-HID Receiver – 5VDC / 800 mA	
	Single Head – Transmitter – 5VDC / 800 mA USB-2.0 Receiver – 5VDC / 2500 mA	
	Dual Head – Transmitter – 5VDC / 1600 mA USB-HID Receiver – 5VDC / 1600 mA	
	Dual Head – Transmitter – 5VDC / 1600 mA USB-2.0 Receiver – 5VDC / 3300 mA	
Connectors	Video to PC/ KVM – DVI-I USB – Transmitter Type B / Receiver Type A Interconnect: RJ45 Power	
Operating Temp.	41° F-113° F / 5° C-45° C	
Storage Temp.	-13° F-140° F / -25° C-60° C	
Rel. Humidity	Max 80% non-condensing	
Weight	Transmitter/Receiver (Single-Head) – 0.4 lbs (0.2kg) Transmitter/Receiver (Dual-Head) – 0.7 lbs (0.3kg)	
Dimensions	Single-Head Transmitter / Receiver H: 1.1 in / 29 mm W: 3.1in / 80 mm D: 4.3 in / 110 mm	Dual-Head Transmitter H: 1.7 in / 42 mm W: 3.1in / 80 mm D: 4.3 in / 110 mm
		Dual-Head Receiver H: 1.1 in / 29 mm W: 6.3in / 161 mm D: 4.3 in / 110 mm

Appendix B – Parts and Cables

Part Number	Description
CRK-M1DTXUD1D	USB-HID transmitter and receiver Single head
CRK-M1DTXUD2D	USB-HID transmitter and receiver Dual head
CRK-M1DTXTD1D	USB-2.0 transmitter and receiver Single head
CRK-M1DTXTD2D	USB-2.0 transmitter and receiver Dual head
CAB-DVIImm	DVI-D male-to-male
CAB-USBABnnn	USB Type A to Type B
CAB-08C5UTPnnn	CAT5 cable

Appendix C - Diagnostics

The CrystalView DVI Mini has the following LEDs for status indication at Transmitter and Receiver Units:

USB-HID Models (Transmitter and Receiver Unit) Diagnostic LEDs



1

2



3

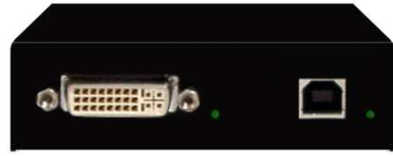
4

	LED	Status	Diagnostics
1	Power (red)	off	Device not ready
		on	Device ready
2	Link Status (green)	off	No connection via interconnect cable
		on	Connection available
3	Video OK (green)	off	Transmitter: No DVI signal from video source (computer, CPU) detected. Receiver: No DVI signal from CPU Unit or no monitor detected
		on	DVI signal from video source available
		flashing	DDC information is being transmitted from monitor
4	USB Status (green)	off	No USB connection
		on	USB connection available

USB-2.0 Models (Transmitter and Receiver Unit) Diagnostic LEDs



1 2 3



4 5

	LED	Status	Diagnostics
1	Power (red)	off	Device not ready
		on	Device ready
2	Link Status USB (green)	off	No connection via interconnect cable
		on	Connection available
		flashing	No USB host found
3	Link Status Video (green)	off	No connection via interconnect cable
		on	Connection available
4	Video OK (green)	off	Transmitter: No DVI signal from video source (computer, CPU) detected. Receiver: No DVI signal from CPU Unit or no monitor detected
		on	DVI signal from video source available
		flashing	DDC information is being transmitted from monitor
5	USB Status (green)	off	No USB connection
		on	USB connection available



Server Management



Solutions

10707 Stancliff Road
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Phone: (281) 933-7673
Internet: WWW.ROSE.COM