CrystalView DVI Quad ™

DIGITAL CATx or Fiber with USB 2.0 Extender

INSTALLATION AND OPERATIONS MANUAL

ROSE ELECTRONICS

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LIMITED WARRANTY

Rose Electronics warrants the CrystalView DVI Quad 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.

Limited Warranty service may be obtained by delivering this unit during the one-year warranty period to Rose Electronics or an authorized repair center providing a proof of purchase date. If this Unit is delivered by mail, you agree to insure the Unit or assume the risk of loss or damage in transit, to prepay shipping charges to the warranty service location, and to use the original shipping container or its equivalent. You must call for a return authorization number first. Under no circumstances will a unit be accepted without a return authorization number. Contact an authorized repair center or Rose Electronics for further information.

ALL EXPRESS AND IMPLIED WARRANTIES FOR THIS PRODUCT INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO A PERIOD OF ONE YEAR FROM THE DATE OF PURCHASE, AND NO WARRANTIES, WHETHER EXPRESS OR IMPLIED, WILL APPLY AFTER THIS PERIOD. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IF THIS PRODUCT IS NOT IN GOOD WORKING ORDER AS WARRANTED ABOVE, YOUR SOLE REMEDY SHALL BE REPLACEMENT OR REPAIR AS PROVIDED ABOVE. IN NO EVENT WILL ROSE ELECTRONICS BE LIABLE TO YOU FOR ANY DAMAGES INCLUDING ANY LOST PROFITS, LOST SAVINGS OR OTHER INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OF OR THE INABILITY TO USE SUCH PRODUCT, EVEN IF ROSE ELECTRONICS OR AN AUTHORIZED DEALER HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR FOR ANY CLAIM BY ANY OTHER PARTY.

SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS, SO THE ABOVE MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH MAY VARY FROM STATE TO STATE.

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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Printed In the United States of America – 1.7

FCC/IC STATEMENTS, EU DECLARATION OF CONFORMITY

Product

CrystalView DVI Quad

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.

Operation is subject to the following two conditions:

1- This device may not cause harmful interference
2- This device must accept any interference received including interference that may cause undesired operation.

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.

CE Statement

The product meets European Standard EMC:
EN-55022:2006 Class A
EN 61000-4-2:2001
EN 61000-4-3:2006
EN 61000-4-4:2004
EN 61000-4-5:2006

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INTRODUCTION

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.

System Introduction

Thank you for choosing the Rose Electronics® CrystalView DVI Quad, a high-performance, long distance, multi-function digital KVM Extender with support for multiple desktop peripherals. The CrystalView DVI Quad makes this possible by the use of CATx or fiber cable. You can fully operate and control a computer from 33,000 feet (10Km) over single mode fiber cable, or from 460 feet (140 meters) using CATx solid-core AWG24 cable.

The CrystalView DVI Quad supports a wide variety of DVI-D monitors and video cards, USB or PS/2 keyboards and mice, and USB 2.0 devices, as well as line level analog audio and serial devices. Up to 4 USB 2.0 peripherals, such as USB speakers, printers, USB mass storage devices and web cameras can be directly connected to the receiver's 4 USB ports. Additional USB devices can be connected using a USB hub.

The system consists of two Units, a transmitter and a receiver. The transmitter connects to a computer's DVI-D video output, USB keyboard and mouse ports, USB 2.0 device ports, audio input and output connectors, and a serial port. The transmitter also has DVI video outputs for local monitors located close to the host CPU. The receiver connects directly to DVI-D video displays, a USB keyboard and mouse, USB 2.0 devices, powered speakers, a microphone, and a serial device. The transmitter and receiver are connected together with industry standard CATx cable or fiber cable depending on the model.

Features

- Perfect image quality at resolutions up to 1920 x 1200 @ 60Hz using CATx, 5e, 6, or 7 cable
- Extend a KVM station from a CPU using fiber or CATx cables
- Supports USB-HID or PS/2 keyboard and mouse
- Supports USB1.1/2.0 peripherals
- Supports all DVI-D graphic cards
- Supports 16 Bit/24 Bit auto switching or fixed 24 Bit color depth (user selectable)
- Single, dual, triple, and quad video models available
- Serial and analog stereo audio option
- The CrystalView DVI Quad uses a microprocessor to emulate the keyboard and mouse. The keyboard and mouse on the receiver do not have to be connected for the PC to boot; only the transmitter Unit must be connected to the PC
- Status indicator LEDs on each device
- Compatible with all operating systems
- The computer's video is displayed on both KVM stations monitors, local and remote end
- Rack mount kits available

Compatibility

Computers	PCs (all operating systems)
Displays	DVI-D video to 1.65 Gbit/sec/channel
Keyboards	All standard USB and PS/2 keyboards
Mouse	All standard USB and PS/2 mice
Serial	Compatible devices up to 19.2KBaud
Audio	Bi-directional CD quality stereo audio
USB	USB 2.0 devices

Table 1. Compatible Devices

Package contents

The package contents consist of the following:

- The transmitter and receiver Units
- 1*DVI-D (6ft DVI Cable (M/M)
- 1*USBAB (6ft USB A-to-B Cable)
- Power cables and power transformers for transmitter and receiver units.
- Installation and operations manual.

Additional DVI, USB, Audio and Serial cables for CPU-to-Transmitter connections can be ordered separately. VGA to DVI converters are also available, as well as Interconnecting Fiber and CATx cables.

Special Application Cables

1. KVM / CPU Cable. DVI-D(M) + 2 mini-DIN 6(F) PS/2 kb/mouse to DVI-D(M). For PS/2 equipped transmitter units.

2. Serial / Audio Cable. DB9F + 2*3.5mm audio to mini-DIN 8. For analog audio and serial equipped transmitter units.

3. PS/2 Keyboard/Mouse “Y” cable. Mini-DIN 6(M) to 2*mini-DIN 6(F). For connecting local keyboard and mouse to PS/2 equipped transmitter units.

If the package contents are not correct, contact Rose Electronics or your reseller, so the problem can be quickly resolved.

CrystalView DVI Quad Models / Connectors

Single Video 1x Video Only & Video + Audio/Serial

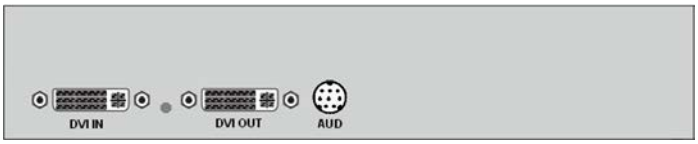
CATx

FIBER

TRANSMITTERS

CRV-DLDTX0D1D/R…….DVI Video Only, CATx
CRV-DLDFM0D1D/R……DVI Video Only, Multi-mode Fiber
CRV-DLDFS0D1D/R…….DVI Video Only, Single-mode Fiber

CRV-DLDTX0D1D/AUD/R…. DVI Video + Aud/Ser, CATx
CRV-DLDFM0D1D/AUD/R… DVI Video + Aud/Ser, Multi-mode Fiber
CRV-DLDFS0D1D/AUD/R….DVI Video + Aud/Ser, Single -mode Fiber

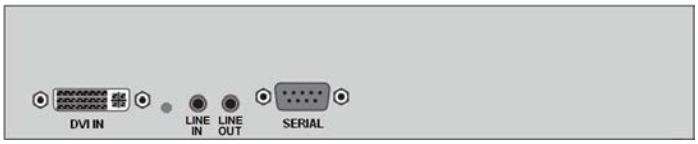


CRV-DLDTX0D1D/AS/R……DV I Video + Aud/Ser, CATx
CRV-DLDFM0D1D/AS/R……DVI Video + Aud/Ser, Multi-mode Fiber
CRV-DLDFS0D1D/AS/R……DVI Video + Aud/Ser, Single-mode Fiber

RECEIVERS

CRV-SRDTX0D1D/R…….DVI Video Only, CATx
CRV-SRDFM0D1D/R……DVI Video Only, Multi-mode Fiber
CRV-SRDFS0D1D/R…….DVI Video Only, Single-mode Fiber

CRV-SRDTX0D1D/AUD/R…. DVI Video + Aud/Ser, CATx
CRV-SRDFM0D1D/AUD/R… DVI Video + Aud/Ser, Multi-mode Fiber
CRV-SRDFS0D1D/AUD/R….DVI Video + Aud/Ser, Single -mode Fiber



CRV-SRDTX0D1D/AS/R…….DV I Video + Aud/Ser, CATx
CRV-SRDFM0D1D/AS/R……DVI Video + Aud/Ser, Multi-mode Fiber
CRV-SRDFS0D1D/AS/R…….DVI Video + Aud/Ser, Single-mode Fiber

Dual Video 2x Video Only & Video + Audio/Serial

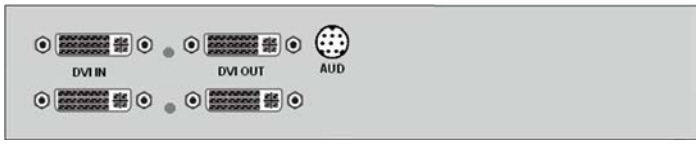
CATx

FIBER

TRANSMITTERS

CRV-DLDTX0D2D/R…….2x DVI Video Only, CATx
CRV-DLDFM0D2D/R…….2x DVI Video Only, Multi-mode Fiber
CRV-DLDFS0D2D/R…….2x DVI Video Only, Single-mode Fiber

CRV-DLDTX0D2D/AUD/R…….2x DVI + Aud/Ser, CATx
CRV-DLDFM0D2D/AUD/R…….2x DVI + Aud/Ser, MM Fiber
CRV-DLDFS0D2D/AUD/R…….2x DVI + Aud/Ser, SM Fiber



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CRV-DLDFM0D2D/AS/R…….2x DVI + Aud/Ser, MM Fiber
CRV-DLDFS0D2D/AS/R…….2x DVI + Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTX0D2D/R…….2x DVI Video Only, CATx
CRV-SRDFM0D2D/R……...2x DVI Video Only, Multi-mode Fiber
CRV-SRDFS0D2D/R…….2x DVI Video Only, Single-mode Fiber

CRV-SRDTX0D2D/AUD/R…….2x DVI + Aud/Ser, CATx
CRV-SRDFM0D2D/AUD/R…….2x DVI + Aud/Ser, MM Fiber
CRV-SRDFS0D2D/AUD/R…….2x DVI + Aud/Ser, SM Fiber

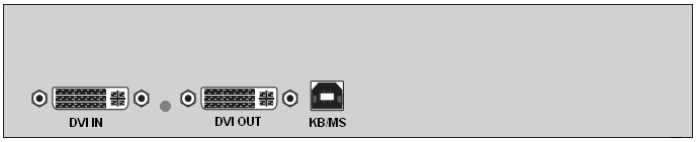
CRV-SRDTX0D2D/AS/R…….2x DVI + Aud/Ser, CATx
CRV-SRDFM0D2D/AS/R…….2x DVI + Aud/Ser, MM Fiber
CRV-SRDFS0D2D/AS/R…….2x DVI + Aud/Ser, SM Fibe

Single Video 1x Video with USB-HID or PS/2 + Audio/Serial

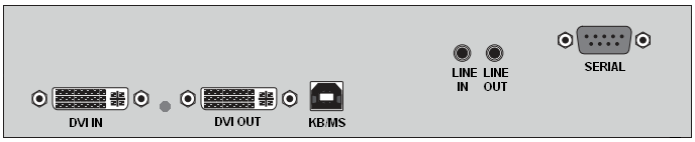
CATx

FIBER

TRANSMITTERS



CRV-DLDTXUD1D/R..... DVI + USB HID, CATx
CRV-DLDFMUD1D/R.....DVI + USB HID, Multi-mode Fiber
CRV-DLDFSUD1D/R..... DVI + USB HID, Single-mode Fiber



CRV-DLDTXUD1D/AUD/R....DVI + USB HID + Aud/Ser, CATx
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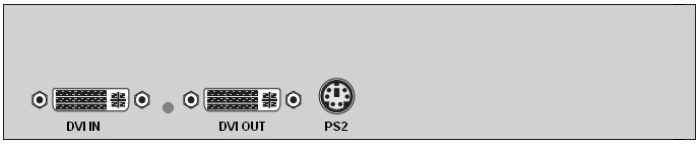
CRV-DLDFSUD1D/AUD/R... DVI + USB HID + Aud/Ser, SM Fiber



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CRV-DLDFMPD1D/R.....DVI + PS/2, Multi-mode Fiber
CRV-DLDFSPD1D/R.....DVI + PS/2, Single-mode Fiber

CRV-DLDTXPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, CATx
CRV-DLDFMPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, MM Fiber
CRV-DLDFSPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTXUD1D/R..... DVI + USB HID, CATx
CRV-SRDFMUD1D/R.....DVI + USB HID, Multi-mode Fiber
CRV-SRDFSUD1D/R..... DVI + USB HID, Single-mode Fiber

CRV-SRDTXUD1D/AUD/R....DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD1D/AUD/R...DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD1D/AUD/R... DVI + USB HID + Aud/Ser, SM Fiber

CRV-SRDTXPD1D/AUD/R.....DVI + PS/2, CATx
CRV-SRDFMPD1D/AUD/R.....DVI + PS/2, MM Fiber
CRV-SRDFSPD1D/AUD/R.....DVI + PS/2, SM Fiber

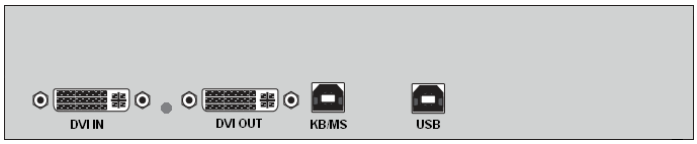
CRV-SRDTXPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, CATx
CRV-SRDFMPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, MM Fiber
CRV-SRDFSPD1D/AUD/R.....DVI + PS/2 + Aud/Ser, SM Fiber

Single Video 1x Video with USB-HID or PS/2 + USB 2.0 + Audio/Serial

CATx

FIBER

TRANSMITTERS



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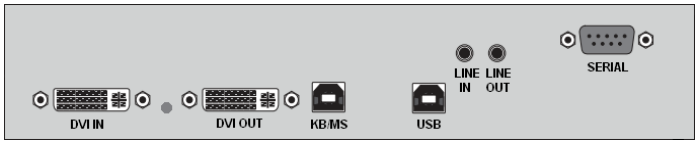
CRV-DLDFSTD1D/R…….DVI + USB HID + USB 2.0, SM Fiber



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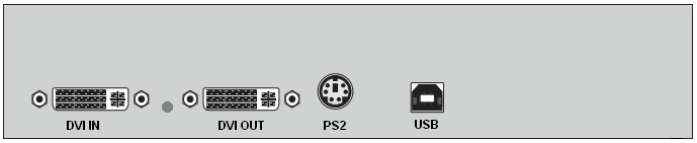
CRV-DLDFSTD1D/AUD/R….DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber



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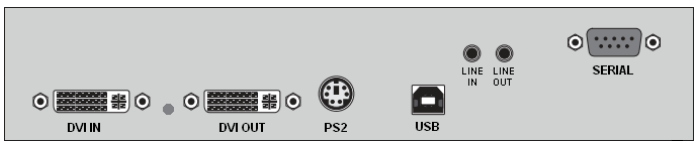
CRV-DLDFSTD1DP/R…….DVI + PS/2 + USB 2.0, SM Fiber



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CRV-DLDFMTD1DP/AUD/R…DVI+PS/2+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD1DP/AUD/R….DVI+PS/2+USB 2.0+Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTXTD1D/R…….DVI + USB HID + USB 2.0, CATx
CRV-SRDFMTD1D/R……DVI + USB HID + USB 2.0, MM Fiber
CRV-SRDFSTD1D/R…….DVI + USB HID + USB 2.0, SM Fiber

CRV-SRDTXTD1D/AUD/R….DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD1D/AUD/R…DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD1D/AUD/R….DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber

CRV-SRDTXTD1DP/R…….DVI + PS/2 + USB 2.0, CATx
CRV-SRDFMTD1DP/R……DVI + PS/2 + USB 2.0, MM Fiber
CRV-SRDFSTD1DP/R…….DVI + PS/2 + USB 2.0, SM Fiber

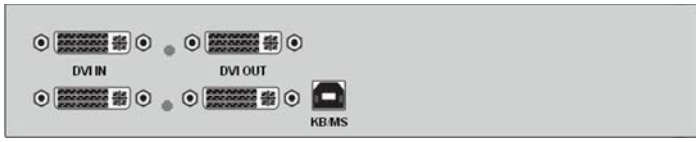
CRV-SRDTXTD1DP/AUD/R….DVI+PS/2+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD1DP/AUD/R…DVI+PS/2+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD1DP/AUD/R….DVI+PS/2+USB 2.0+Aud/Ser, SM Fiber

Dual Video 2x Video with USB-HID + Audio/Serial

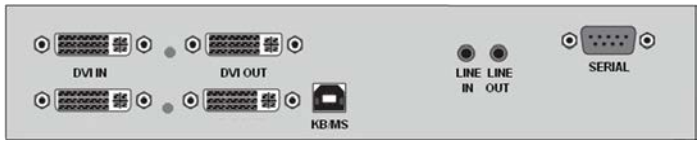
CATx

FIBER

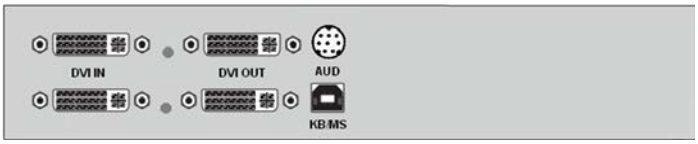
TRANSMITTERS



CRV-DLDTXUD2D/R…… 2x DVI + USB HID, CATx
CRV-DLDFMUD2D/R……2x DVI + USB HID, Multi-mode Fiber
CRV-DLDFSUD2D/R…… 2x DVI + USB HID, Single-mode Fiber



CRV-DLDTXUD2D/AUD/R….2x DVI + USB HID + Aud/Ser, CATx
CRV-DLDFMUD2D/AUD/R…2x DVI + USB HID + Aud/Ser, MM Fiber
CRV-DLDFSUD2D/AUD/R… 2x DVI + USB HID + Aud/Ser, SM Fiber



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CRV-DLDFMUD2D/AS/R…2x DVI + USB HID + Aud/Ser, MM Fiber
CRV-DLDFSUD2D/AS/R… 2x DVI + USB HID + Aud/Ser, SM Fiber

RECEIVERS

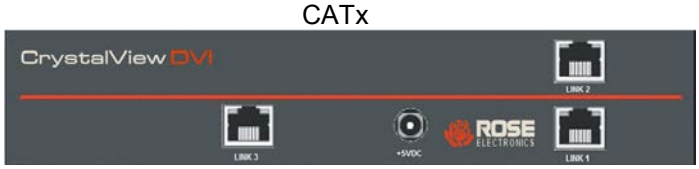
CRV-SRDTXUD2D/R…… 2x DVI + USB HID, CATx
CRV-SRDFMUD2D/R……2x DVI + USB HID, Multi-mode Fiber
CRV-SRDFSUD2D/R…… 2x DVI + USB HID, Single-mode Fiber

CRV-SRDTXUD2D/AUD/R….2x DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD2D/AUD/R…2x DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD2D/AUD/R… 2x DVI + USB HID + Aud/Ser, SM Fiber

CRV-SRDTXUD2D/AS/R….2x DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD2D/AS/R…2x DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD2D/AS/R… 2x DVI + USB HID + Aud/Ser, SM Fiber

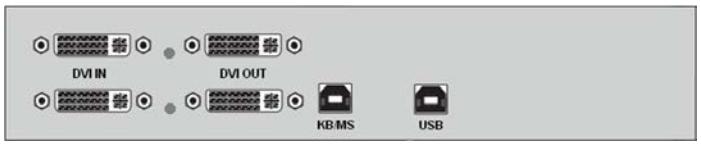
Dual Video 2x Video with USB-HID + USB 2.0 + Audio/Serial

CATx



FIBER

TRANSMITTERS



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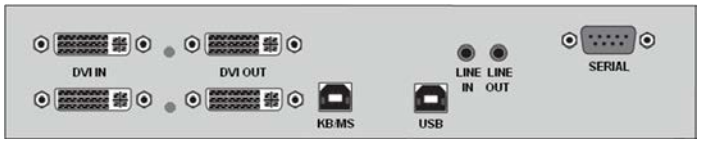
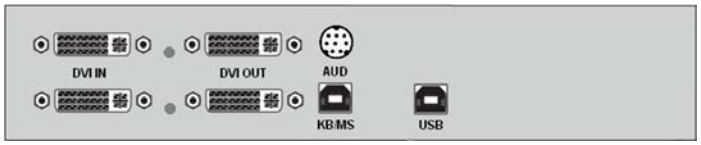
CRV-DLDFMTD2D/R……2x DVI + USB HID + USB 2.0, MM Fiber
CRV-DLDFSTD2D/R…….2x DVI + USB HID + USB 2.0, SM Fiber



CRV-DLDTXTD2D/AUD/R…2x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-DLDFMTD2D/AUD/R..2x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD2D/AUD/R..2x DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber

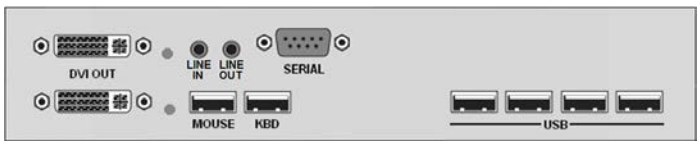


CRV-DLDTXTD2D/AS/R….2x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-DLDFMTD2D/AS/R..2x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD2D/AS/R..2x DVI + USB HID + USB 2.0+Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTXTD2D/R…….2x DVI + USB HID + USB 2.0, CATx
CRV-SRDFMTD2D/R……2x DVI + USB HID + USB 2.0, MM Fiber
CRV-SRDFSTD2D/R…….2x DVI + USB HID + USB 2.0, SM Fiber

CRV-SRDTXTD2D/AUD/R…2x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD2D/AUD/R..2x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD2D/AUD/R..2x DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber



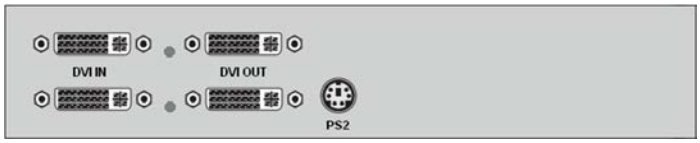
CRV-SRDTXTD2D/AS/R…2x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD2D/AS/R…2x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD2D/AS/R….2x DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber

Dual Video 2x Video with PS/2 + Audio/Serial

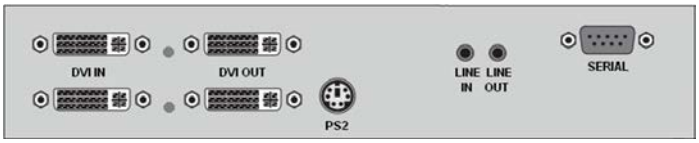
CATx

FIBER

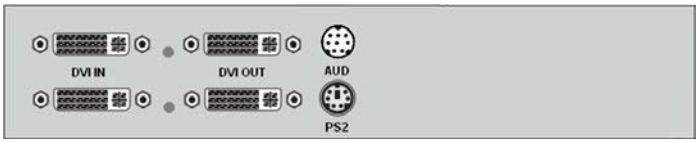
TRANSMITTERS



CRV-DLDTXPD2D/R…… 2x DVI + PS/2, CATx
CRV-DLDFMPD2D/R……2x DVI + PS/2, Multi-mode Fiber
CRV-DLDFSPD2D/R…… 2x DVI + PS/2, Single-mode Fiber



CRV-DLDTXPD2D/AUD/R….2x DVI + PS/2 + Aud/Ser, CATx
CRV-DLDFMPD2D/AUD/R…2x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-DLDFSPD2D/AUD/R… 2x DVI + PS/2 + Aud/Ser, SM Fiber



CRV-DLDTXPD2D/AS/R….2x DVI + PS/2 + Aud/Ser, CATx
CRV-DLDFMPD2D/AS/R…2x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-DLDFSPD2D/AS/R… 2x DVI + PS/2 + Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTXPD2D/R…… 2x DVI + PS/2, CATx
CRV-SRDFMPD2D/R……2x DVI + PS/2, Multi-mode Fiber
CRV-SRDFSPD2D/R…… 2x DVI + PS/2 HID, Single-mode Fiber

CRV-SRDTXPD2D/AUD/R….2x DVI + PS/2 + Aud/Ser, CATx
CRV-SRDFMPD2D/AUD/R…2x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-SRDFSPD2D/AUD/R… 2x DVI + PS/2 + Aud/Ser, SM Fiber

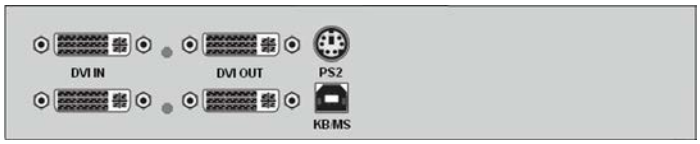
CRV-SRDTXPD2D/AS/R….2x DVI + PS/2 + Aud/Ser, CATx
CRV-SRDFMPD2D/AS/R…2x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-SRDFSPD2D/AS/R… 2x DVI + PS/2 + Aud/Ser, SM Fiber

Dual Video 2x Video with USB-HID + PS/2 + Audio/Serial

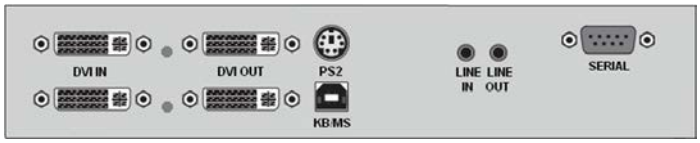
CATx

FIBER

TRANSMITTERS



CRV-DLDTXUD2DP/R…….2x DV I + USB HID + PS/2, CATx
CRV-DLDFMUD2DP/R……2x DV I + USB HID + PS/2, MM Fiber
CRV-DLDFSMUD2DP/R…….2x DV I + USB HID + PS/2, SM Fiber



CRV-DLDTXUD2DP/AUD/R……2x DV I+USB HID+PS/2+Aud/Ser, CATx
CRV-DLDFMUD2DP/AUD/R…..2x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-DLDFSUD2DP/AUD/R…2x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

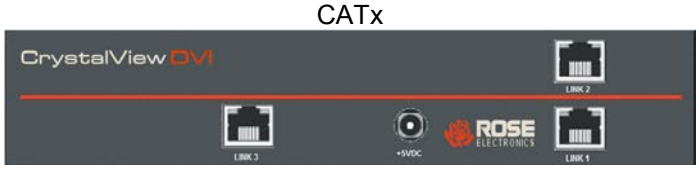
RECEIVERS

CRV-SRDTXUD2DP/R…….2x DV I + USB HID + PS/2, CATx
CRV-SRDFMUD2DP/R……2x DV I + USB HID + PS/2, MM Fiber
CRV-SRDFSMUD2DP/R…….2x DV I + USB HID + PS/2, SM Fiber

CRV-SRDTXUD2DP/AUD/R……2x DV I+USB HID+PS/2+Aud/Ser, CATx
CRV-SRDFMUD2DP/AUD/R…..2x DV I+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-SRDFSUD2DP/AUD/R…2x DV I+USB HID+PS/2+Aud/Ser, SM Fiber

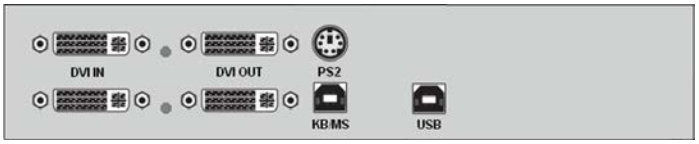
Dual Video 2x Video with USB-HID + USB 2.0 + PS/2 + Audio/Serial

CATx

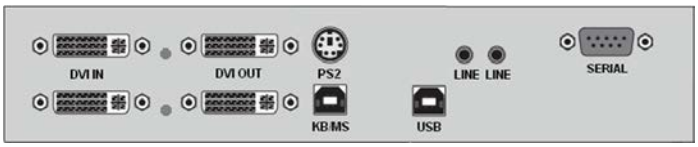


FIBER

TRANSMITTERS



CRV-DLDTXTD2DP/R…….2x DV I+USB HID+PS/2+USB 2.0, CATx
CRV-DLDFMTD2DP/R……2x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-DLDFSMTD2DP/R….2x DV I+USB HID+PS/2+USB 2.0, SM Fiber



CRV-DLDTXTD2DP/AUD/R….2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, CATx
CRV-DLDFMTD2DP/AUD/R…2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD2DP/AUD/R…2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, SM Fiber

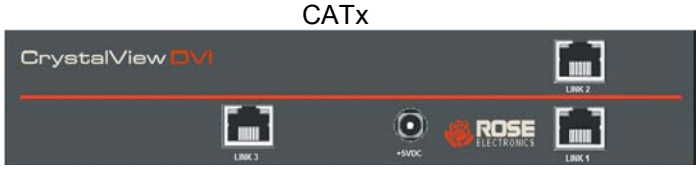
RECEIVERS

CRV-SRDTXTD2DP/R……2x DV I+USB HID+PS/2+USB 2.0, CATx
CRV-SRDFMTD2DP/R……2x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-SRDFSMTD2DP/R….2x DV I+USB HID+PS/2+USB 2.0, SM Fiber

CRV-SRDTXTD2DP/AUD/R…2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD2DP/AUD/R…2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD2DP/AUD/R….2x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, SM Fiber

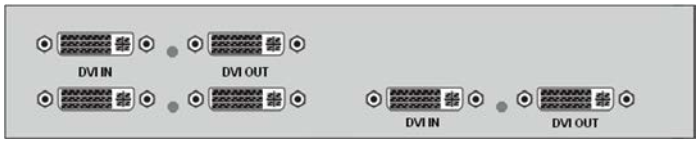
Triple Video 3x Video-Only & Video + Audio/Serial

CATx

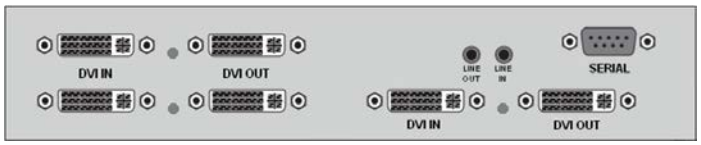


FIBER

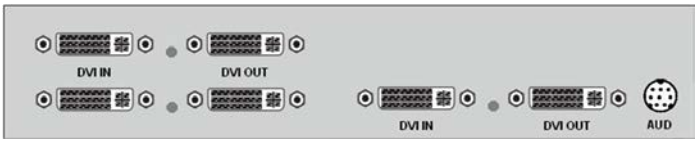
TRANSMITTERS



CRV-DLDTX0D3D/R…….3x DVI Video Only, CATx
CRV-DLDFM0D3D/R…….3x DVI Video Only, Multi-mode Fiber
CRV-DLDFS0D3D/R…….3x DVI Video Only, Single-mode Fiber



CRV-DLDTX0D3D/AUD/R…….3x DVI + Aud/Ser, CATx
CRV-DLDFM0D3D/AUD/R…….3x DVI + Aud/Ser, MM Fiber
CRV-DLDFS0D3D/AUD/R…….3x DVI + Aud/Ser, SM Fiber

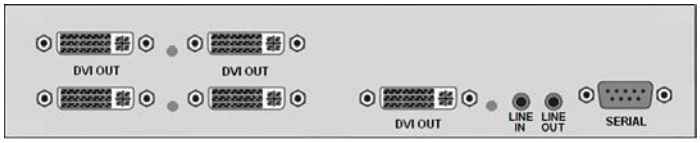


CRV-DLDTX0D3D/AS/R…….3x DVI + Aud/Ser, CATx
CRV-DLDFM0D3D/AS/R…….3x DVI + Aud/Ser, MM Fiber
CRV-DLDFS0D3D/AS/R…….3x DVI + Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTX0D3D/R…….3x DVI Video Only, CATx
CRV-SRDFM0D3D/R……..3x DVI Video Only, Multi-mode Fiber
CRV-SRDFS0D3D/R…….3x DVI Video Only, Single-mode Fiber

CRV-SRDTX0D3D/AUD/R…….3x DVI + Aud/Ser, CATx
CRV-SRDFM0D3D/AUD/R…….3x DVI + Aud/Ser, MM Fiber
CRV-SRDFS0D3D/AUD/R…….3x DVI + Aud/Ser, SM Fiber



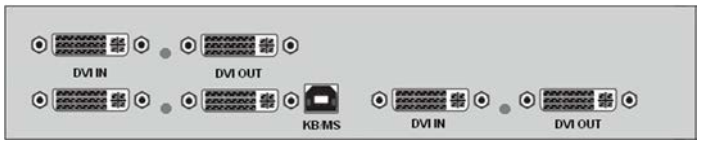
CRV-SRDTX0D3D/AS/R…….3x DVI + Aud/Ser, CATx
CRV-SRDFM0D3D/AS/R…….3x DVI + Aud/Ser, MM Fiber
CRV-SRDFS0D3D/AS/R…….3x DVI + Aud/Ser, SM Fiber

Triple Video 3x Video with USB-HID + Audio/Serial

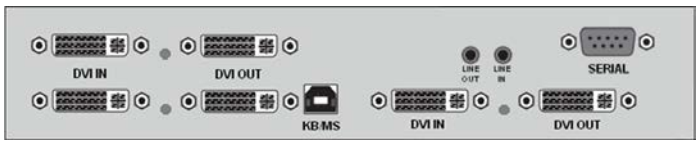
CATx

FIBER

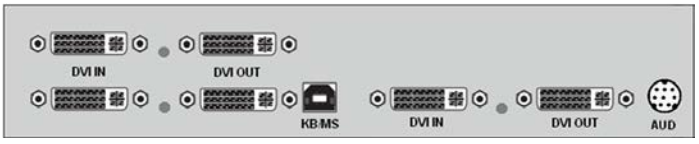
TRANSMITTERS



CRV-DLDTXUD3D/R…… 3x DVI + USB HID, CATx
CRV-DLDFMUD3D/R……3x DVI + USB HID, Multi-mode Fiber
CRV-DLDFSUD3D/R…… 3x DVI + USB HID, Single-mode Fiber

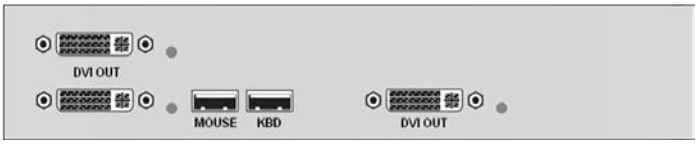


CRV-DLDTXUD3D/AUD/R….3x DVI + USB HID + Aud/Ser, CATx
CRV-DLDFMUD3D/AUD/R…3x DVI + USB HID + Aud/Ser, MM Fiber
CRV-DLDFSUD3D/AUD/R… 3x DVI + USB HID + Aud/Ser, SM Fiber

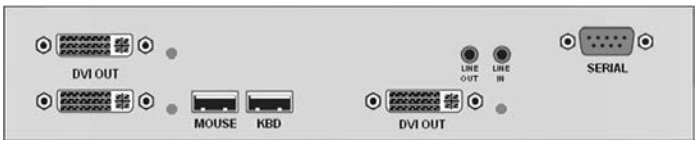


CRV-DLDTXUD3D/AS/R….3x DVI + USB HID + Aud/Ser, CATx
CRV-DLDFMUD3D/AS/R…3x DVI + USB HID + Aud/Ser, MM Fiber
CRV-DLDFSUD3D/AS/R… 3x DVI + USB HID + Aud/Ser, SM Fiber

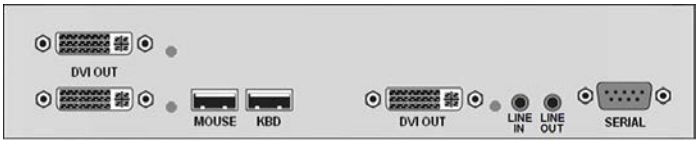
RECEIVERS



CRV-SRDTXUD3D/R…… 3x DVI + USB HID, CATx
CRV-SRDFMUD3D/R……3x DVI + USB HID, Multi-mode Fiber
CRV-SRDFSUD3D/R…… 3x DVI + USB HID, Single-mode Fiber



CRV-SRDTXUD3D/AUD/R….3x DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD3D/AUD/R…3x DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD3D/AUD/R… 3x DVI + USB HID + Aud/Ser, SM Fiber



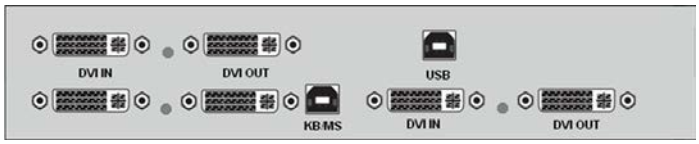
CRV-SRDTXUD3D/AS/R….3x DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD3D/AS/R…3x DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD3D/AS/R… 3x DVI + USB HID + Aud/Ser, SM Fiber

Triple Video 3x Video with USB-HID + USB 2.0 + Audio/Serial

CATx

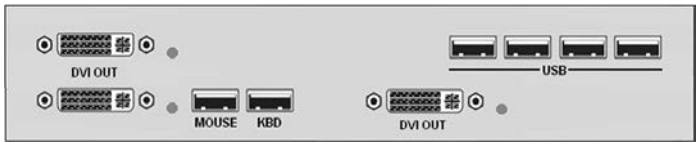
FIBER

TRANSMITTERS

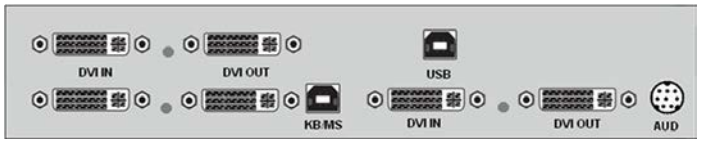


CRV-DLDTXTD3D/R…….3x DVI + USB HID + USB 2.0, CATx
CRV-DLDFMTD3D/R……3x DVI + USB HID + USB 2.0, MM Fiber
CRV-DLDFSTD3D/R…….3x DVI + USB HID + USB 2.0, SM Fiber

RECEIVERS



CRV-SRDTXTD3D/R…….3x DVI + USB HID + USB 2.0, CATx
CRV-SRDFMTD3D/R…….3x DVI + USB HID + USB 2.0, MM Fiber
CRV-SRDFSTD3D/R…….3x DVI + USB HID + USB 2.0, SM Fiber

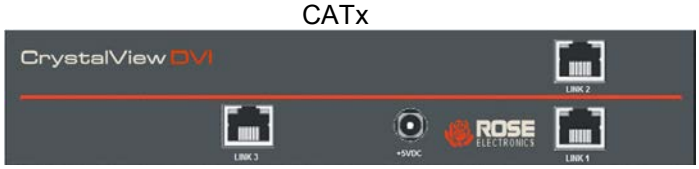


CRV-DLDTXTD3D/AS/R….3x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-DLDFMTD3D/AS/R…3x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD3D/AS/R…3x DVI + USB HID + USB 2.0+Aud/Ser, SM Fiber

CRV-SRDTXTD3D/AS/R…3x DVI+USB HID+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD3D/AS/R…3x DVI+USB HID+USB 2.0+Aud/Ser, MM Fiber
CRV-SRDFSTD3D/AS/R….3x DVI+USB HID+USB 2.0+Aud/Ser, SM Fiber

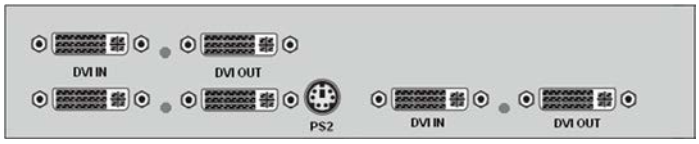
Triple Video 3x Video with PS/2 + Audio/Serial

CATx

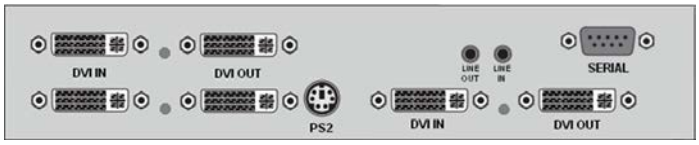


FIBER

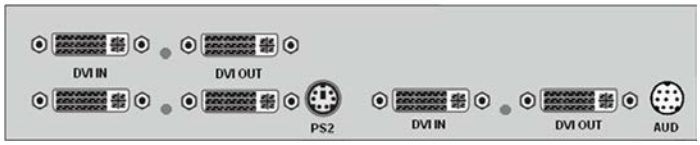
TRANSMITTERS



CRV-DLDTXPD3D/R…… 3x DVI + PS/2, CATx
CRV-DLDFMPD3D/R……3x DVI + PS/2, Multi-mode Fiber
CRV-DLDFSPD3D/R…… 3x DVI + PS/2, Single-mode Fiber



CRV-DLDTXPD3D/AUD/R….3x DVI + PS/2 + Aud/Ser, CATx
CRV-DLDFMPD3D/AUD/R…3x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-DLDFSPD3D/AUD/R… 3x DVI + PS/2 + Aud/Ser, SM Fiber



CRV-DLDTXPD3D/AS/R….3x DVI + PS/2 + Aud/Ser, CATx
CRV-DLDFMPD3D/AS/R…3x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-DLDFSPD3D/AS/R… 3x DVI + PS/2 + Aud/Ser, SM Fiber

RECEIVERS

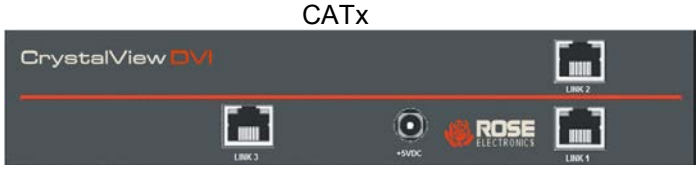
CRV-SRDTXPD3D/R…… 3x DVI + PS/2, CATx
CRV-SRDFMPD3D/R……3x DVI + PS/2, Multi-mode Fiber
CRV-SRDFSPD3D/R…… 3x DVI + PS/2 HID, Single-mode Fiber

CRV-SRDTXPD3D/AUD/R….3x DVI + PS/2 + Aud/Ser, CATx
CRV-SRDFMPD3D/AUD/R…3x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-SRDFSPD3D/AUD/R… 3x DVI + PS/2 + Aud/Ser, SM Fiber

CRV-SRDTXPD3D/AS//R….3x DVI + PS/2 + Aud/Ser, CATx
CRV-SRDFMPD3D/AS/R…3x DVI + PS/2 + Aud/Ser, MM Fiber
CRV-SRDFSPD3D/AS/R… 3x DVI + PS/2 + Aud/Ser, SM Fiber

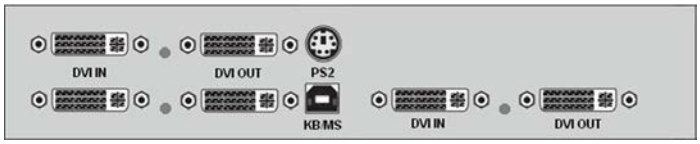
Triple Video 3x Video with USB-HID + PS/2 + Audio/Serial

CATx

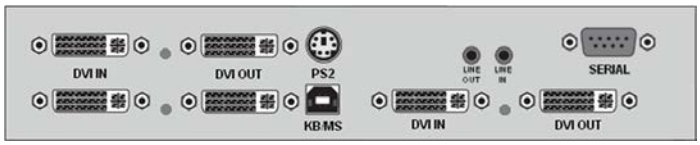


FIBER

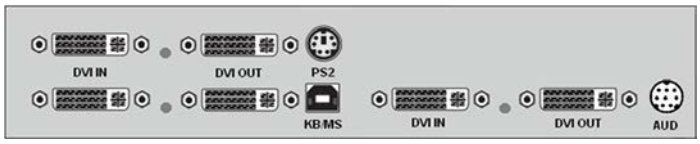
TRANSMITTERS



CRV-DLDTXUD3DP/R…….3x DV I + USB HID + PS/2, CATx
CRV-DLDFMUD3DP/R……3x DV I + USB HID + PS/2, MM Fiber
CRV-DLDFSUD3DP/R…….3x DV I + USB HID + PS/2, SM Fiber



CRV-DLDTXUD3DP/AUD/R….3x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-DLDFMUD3DP/AUD/R…3x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-DLDFSUD3DP/AUD/R… 3x DVI+USB HID+PS/2+Aud/Ser, SM Fiber



CRV-DLDTXUD3DP/AS/R….3x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-DLDFMUD3DP/AS/R…3x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-DLDFSUD3DP/AS/R….3x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

RECEIVERS

CRV-SRDTXUD3DP/R…….3x DV I + USB HID + PS/2, CATx
CRV-SRDFMUD3DP/R……3x DV I + USB HID + PS/2, MM Fiber
CRV-SRDFSUD3DP/R…….3x DV I + USB HID + PS/2, SM Fiber

CRV-SRDTXUD3D/AUD//R….3x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-SRDFMUD3D/AUD/R…3x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-SRDFSUD3D/AUD/R… 3x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

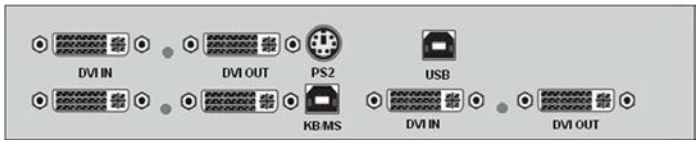
CRV-SRDTXUD3DP/AS//R….3x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-SRDFMUD3DP/AS/R…3x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-SRDFSUD3DP/AS/R… 3x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

Triple Video 3x Video with USB-HID + USB 2.0 + PS/2 + Audio/Serial

CATx

FIBER

TRANSMITTERS



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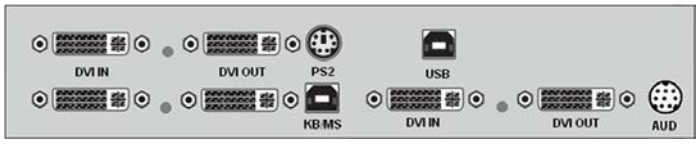
CRV-DLDFMTD3DP/R……3x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-DLDFSTD3DP/R…….3x DV I+USB HID+PS/2+USB 2.0, SM Fiber

RECEIVERS

CRV-SRDTXTD3DP/R……3x DV I+USB HID+PS/2+USB 2.0, CATx
CRV-SRDFMTD3DP/R……3x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-SRDFSTD3DP/R……..3x DV I+USB HID+PS/2+USB 2.0, SM Fiber



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CRV-DLDFMTD3DP/AS/R 3x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, MM Fiber
CRV-DLDFSTD3DP/AS/R 3x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, SM Fiber

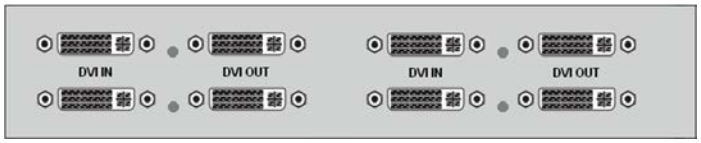
CRV-SRDTXTD3DP/AS/R 3x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, CATx
CRV-SRDFMTD3DP/AS/R 3x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, M Fiber
CRV-SRDFSTD3DP/AS/R 3x DVI+USB HID+PS/2+USB 2.0+Aud/Ser, SMFiber

Quad Video 4x Video Only and Video + Audio/Serial

CATx

FIBER

TRANSMITTERS



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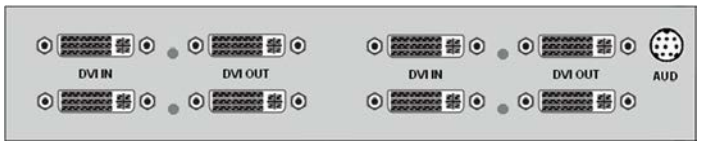

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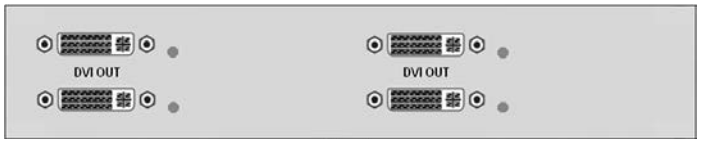
RECEIVERS



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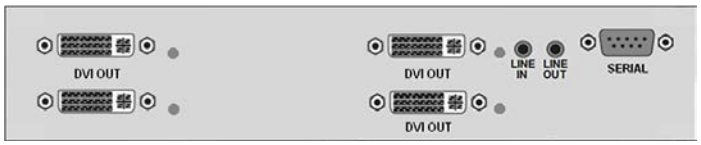
CRV-SRDFS0D4D/R…….4 x DVI Video Only, Single-mode Fiber



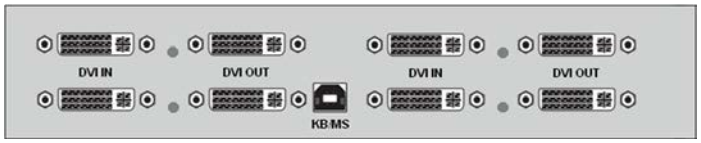
CRV-SRDTX0D4D/AS/R……4x DVI + Aud/Ser, CATx
CRV-SRDFM0D4D/AS/R……4x DVI + Aud/Ser, MM Fiber
CRV-SRDFS0D4D/AS/R……4x DVI + Aud/Ser, SM Fiber

Quad Video 4x Video with USB-HID + PS/2 + Audio/Serial

CATx

FIBER

TRANSMITTERS



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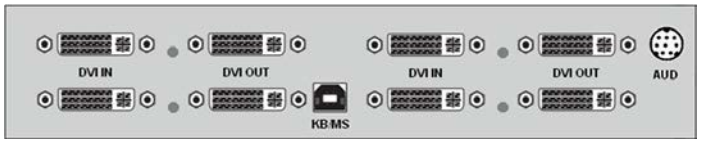
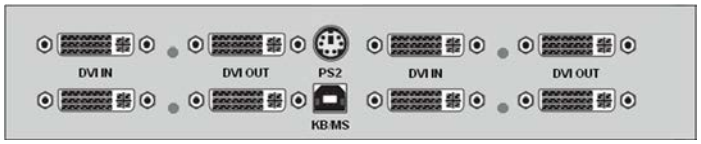
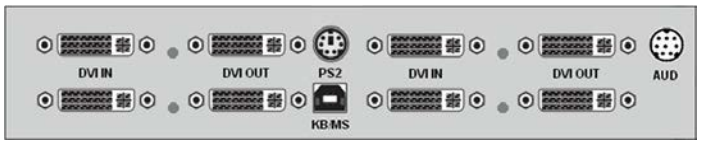
CRV-DLDFMUD4D/R.....4x DVI + USB HID, Multi-mode Fiber
CRV-DLDFSUD4D/R..... 4x DVI + USB HID, Single-mode Fiber



CRV-DLDTXUD4D/AS/R....4x DVI + USB HID + Aud/Ser, CATx
CRV-DLDFMUD4D/AS/R...4x DVI + USB HID + Aud/Ser, MM Fiber
CRV-DLDFSUD4D/AS/R... 4x DVI + USB HID + Aud/Ser, SM Fiber

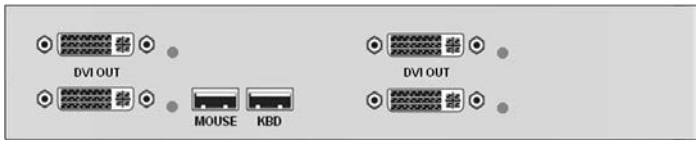


CRV-DLDTXUD4DP/R.....4x DVI + USB HID + PS/2, CATx
CRV-DLDFMUD4DP/R.....4x DVI + USB HID + PS/2, MM Fiber
CRV-DLDFSUD4DP/R.....4x DVI + USB HID + PS/2, SM Fiber

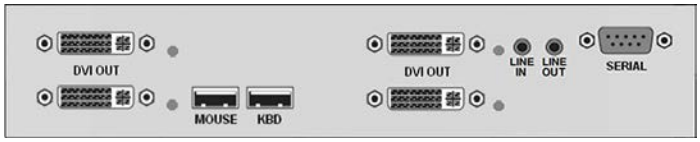


CRV-DLDTXUD4DP/AS/R....4x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-DLDFMUD4DP/AS/R...4x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-DLDFSUD4DP/AS/R... 4x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

RECEIVERS

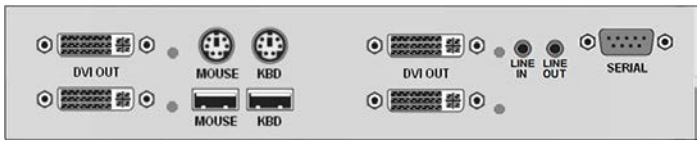


CRV-SRDTXUD4D/R..... 4x DVI + USB HID, CATx
CRV-SRDFMUD4D/R.....4x DVI + USB HID, Multi-mode Fiber
CRV-SRDFSUD4D/R..... 4x DVI + USB HID, Single-mode Fiber



CRV-SRDTXUD4D/AS/R....4x DVI + USB HID + Aud/Ser, CATx
CRV-SRDFMUD4D/AS/R...4x DVI + USB HID + Aud/Ser, MM Fiber
CRV-SRDFSUD4D/AS/R... 4x DVI + USB HID + Aud/Ser, SM Fiber

CRV-SRDTXUD4DP/R.....4x DVI + USB HID + PS/2, CATx
CRV-SRDFMUD4DP/R.....4x DVI + USB HID + PS/2, MM Fiber
CRV-SRDFSUD4DP/R.....4x DVI + USB HID + PS/2, SM Fiber



CRV-SRDTXUD4DP/AS//R...4x DVI+USB HID+PS/2+Aud/Ser, CATx
CRV-SRDFMUD4DP/AS/R...4x DVI+USB HID+PS/2+Aud/Ser, MM Fiber
CRV-SRDFSUD4DP/AS/R... 4x DVI+USB HID+PS/2+Aud/Ser, SM Fiber

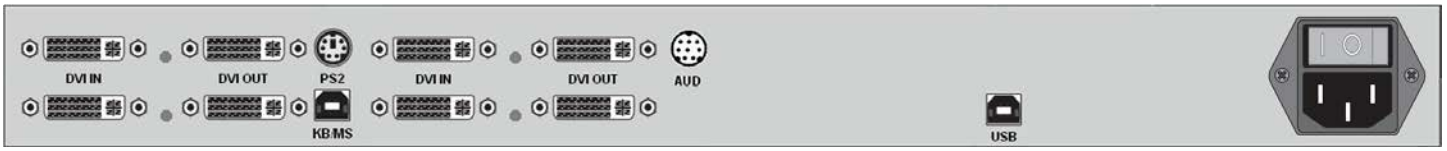
Quad Video 4x Video with USB-HID + USB 2.0 + PS/2 + Audio/Serial

CATx

FIBER

CRV-DLDTXTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, CATx
CRV-DLDFMTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-DLDFSTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, SM Fiber

CRV-SRDTXTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, CATx
CRV-SRDFMTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, MM Fiber
CRV-SRDFSTD4DP…….4x DV I+USB HID+PS/2+USB 2.0, SM Fiber



CRV-DLDTXTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, CATx
CRV-DLDFMTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, MM Fiber
CRV-DLDFSTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, SM Fiber

CRV-SRDTXTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, CATx
CRV-SRDFMTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, MM Fiber
CRV-SRDFSTD4DP/AS…….4x DVI + USB HID + PS/2 + USB 2.0 + Aud/Ser, SM Fiber

Installation

Please refer to the safety section first before proceeding with any installation or configuration of the CrystalView DVI Quad.

When installing the CrystalView DVI Quad, locate the transmitter as close as possible to the CPU or switch. Keep the cables as short as possible but still give some freedom of movement. Using shorter cables keeps the video noise to a minimum and reduces installation costs. You can mount the CrystalView DVI Quad in a CPU rack with the optional rack mount kit. When mounting the units in a rack provide adequate air circulation to assure that the maximum operating temperature is not exceeded.

Receiver units are normally mounted on or under a console desk, close to the operator location. For under desk-mounting, Rose Electronics has an under-desk rackmount bracket. Where possible, connect the transmitter direct to the video source using a DVI cable. The use of adapters, converters, splitters and patch panels may influence the quality of the video signal. Wherever the transmitter and receiver units are located, they should be on a secure surface and free from obstructions and objects that may cause damage to the units.

CATx Cable Requirements

Recommended CATx cable: STP/UTP, 24AWG, solid-core cable according EIA/TIA 568A Use of cables from a higher category (Cat5e, Cat6, Cat7) is possible. Best results will be achieved by installing direct point-to-point CATx cables, and avoiding the use of patch panels, converters, and adapters. The CrystalView extenders can be permanently damaged by connecting the RJ45 ports to any active network or networking equipment.

The use of flexible Cables (Patch Cable) Type AWG26/8 is possible but not recommended. Because of the higher potential loss using stranded cables, the maximum distance is reduced by half or greater compared to the value of solid-core cables.

Fiber Cable Requirements

Two strands of fiber cable are required for Single-Head devices, four strands for Dual-Head devices. The allowed distance will depend on device type and on the fiber type.
Multimode type 50/125µ allowed distance approximately 1,300 feet (400m)
Multimode type 62.5/125µ allowed distance approximately 650 feet (200m)
Singlemode type 9/125µ allowed distance approximately 32,750 feet (10km)

System Setup

1. Switch off all devices.
2. Connect your keyboard, mouse, monitor(s) and other peripherals to the Receiver unit.
3. Connect the Transmitter to the keyboard, mouse, and monitor connectors on the computer or KVM switch.
4. Connect the interconnect cable(s) to the RJ45 or Fiber connectors.
5. Connect the 5V power supplies. Use only the power adapters originally supplied with this equipment.
6. For a dual access system, connect the monitor for the Local console to the appropriate port on the Transmitter unit. For local PS/2 Keyboard/Mouse, connect these peripherals to the Local PS/2 port on the Transmitter using a PS/2 “Y” cable. For Local USB Keyboard/Mouse access, connect the USB KB./Mouse directly to available USB port(s) on the CPU or use a powered USB Hub in-between the USB connectors of the CPU and Transmitter.
7. Power up the system using the following sequence:
   a. Power-on monitors
   b. Power-on Receiver Unit
   c. Power-on Transmitter Unit
   d. Power-on host computer or video source

Connecting Transmitter to Receiver

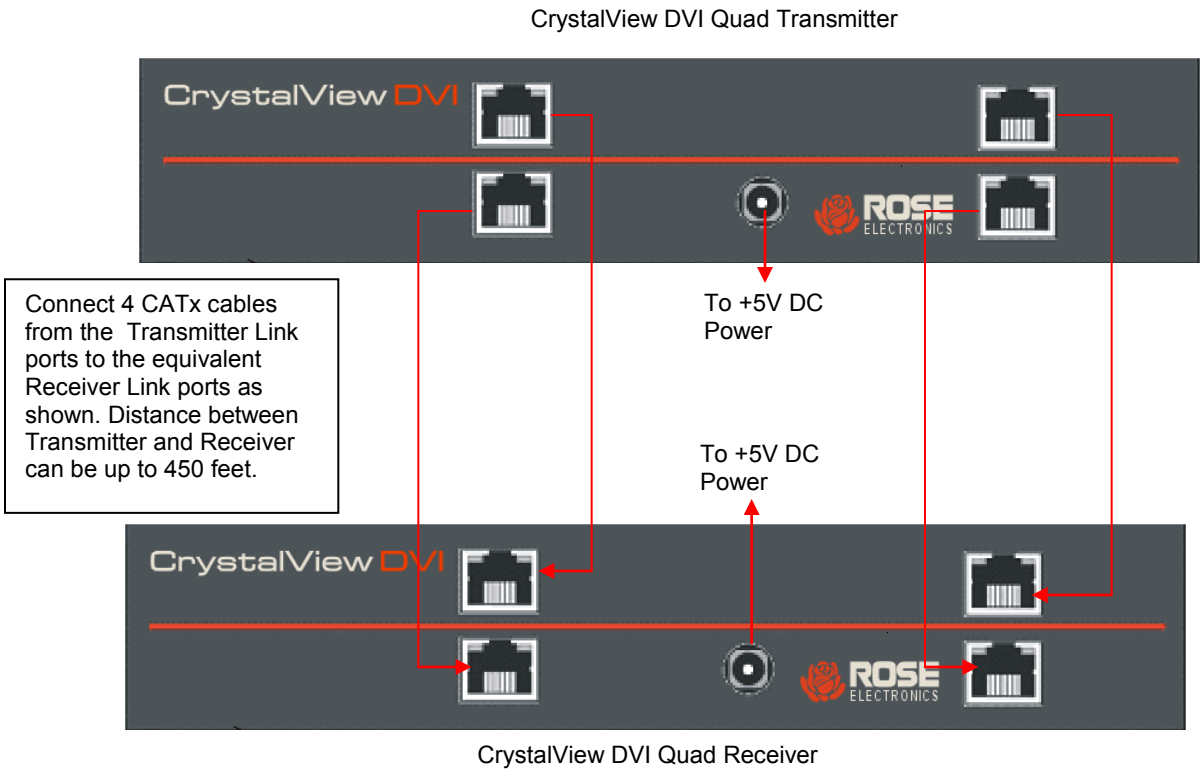


Figure 1. Connecting 4-port Transmitter and Receiver

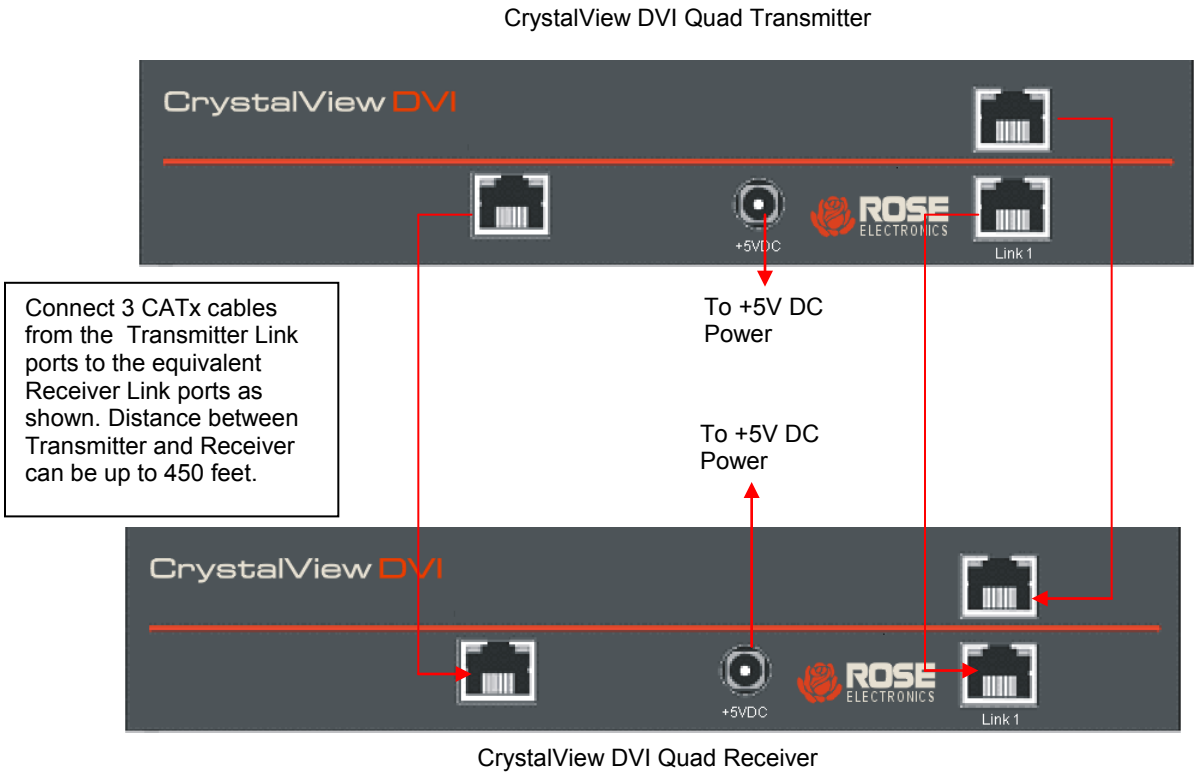


Figure 2. Connecting 3-port Transmitter and Receiver

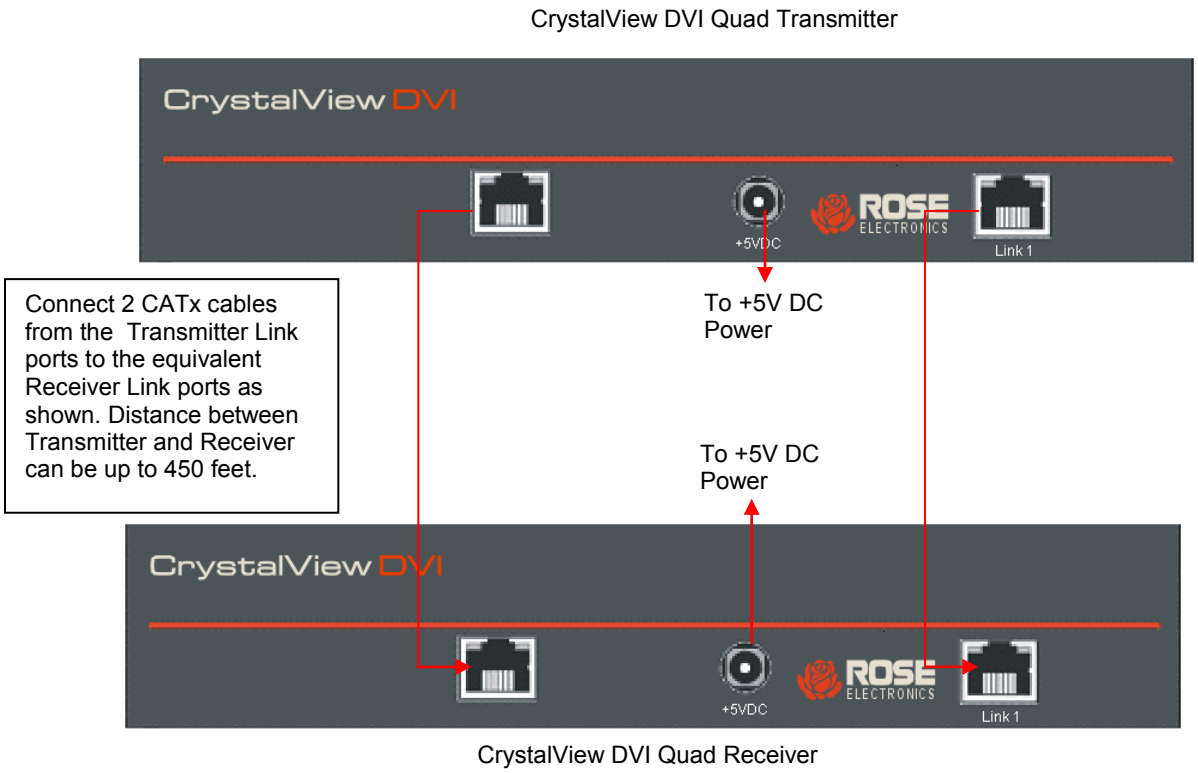


Figure 3. Connecting 2-port Transmitter and Receiver

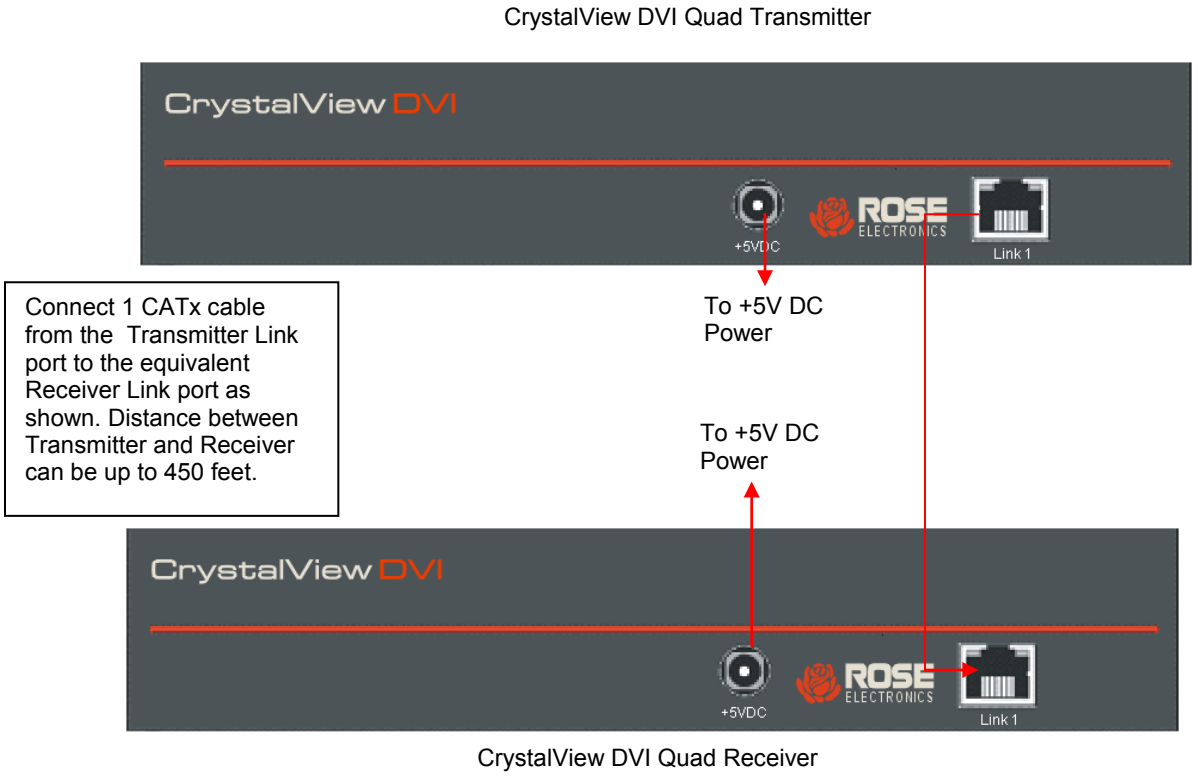


Figure 4. Connecting 1-port Transmitter and Receiver

INDICATORS

LED Indicators

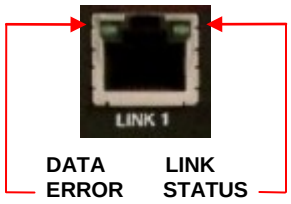


Figure 5. Link Port LED Indicators

Data Error (Left LED at CATx connectors)
- Off - No errors, device ready
- Blinking / On – Transmitter / Receiver communication not established

Link Status (Right LED at CATx connectors)
- Blinking – No CATx connection detected
- On – Transmitter / Receiver communication established, device ready

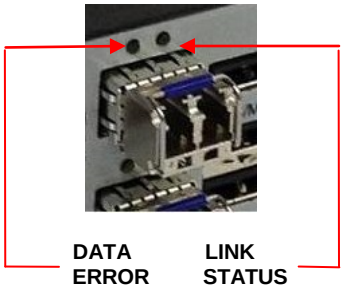


Figure 6. Fiber Port LED Indicators

Data Error (Left LED at fiber connectors)
- Off - No errors, device ready
- Blinking / On – Transmitter / Receiver communication not established

Link Status (Right LED at fiber connectors)
- Blinking – No Fiber cable connection detected
- On – Transmitter / Receiver communication established, device ready

Figure 7.Video Status LED

DVI Video Status LED (Green)
- Off – No video signal detected
- On – Video signal detected, device ready

Operation

USB HID (keyboard and mouse)
Extenders with USB HID connectors support ONLY keyboard and mouse. It is possible that other Human Interface Devices (e.g. touchscreens, graphics tablets, barcode readers) will work correctly, but it is not guaranteed. Non-HID devices such as scanners, printers, cameras and flash memory sticks will not work with the USB HID ports of the CrystalView DVI Quad Extender. The Extender supports two USB HID devices at a time, such as keyboard and mouse or keyboard and touchscreen, but not keyboard and mouse and touchscreen at the same time. A USB Hub can used, but it will not increase the number of HID devices simultaneously supported to more than two.

The DDC, Next frame switching, and color selection on the CrystalView DVI Quad are factory set to values that satisfy most applications. These default settings can be modified, if needed, to the following:

Default settings

- DDC Information – Use the internal DDC table.
- Color selection – Automatically switch between 16 Bit and 24 Bit
- Next frame switching – Switch to a new frame during Hsync period

DDC manual settings
The DDC information supplied to the CPU can be set to:

1. The Transmitter unit's internal DDC table (default)
2. The DDC information obtained from a monitor locally connected to the transmitter unit
3. The DDC information obtained from a monitor connected to the receiver unit

To modify the source of the DDC information, jumper JP1 and/or JP2 need to be re-positioned to designate the DDC source as shown in Table 2. To change the jumper settings, first remove power from the Transmitter unit. Next, remove the screws on the bottom and sides of the Transmitter chassis and carefully remove the top of the chassis exposing the circuit boards. Locate the jumpers JP1 and JP2 as shown in figure 8.
Note: The four circuit boards each have JP1 and JP2 jumpers that can be changed.

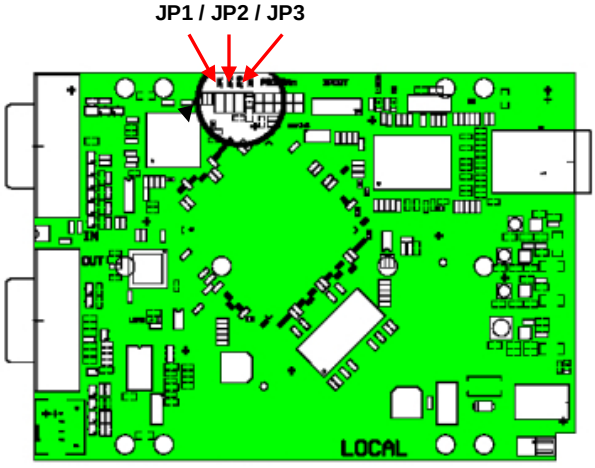


Figure 8. Jumper Settings (Transmitter unit)

DDC Source	JP1	JP2
From Internal DDC Table (default setting)		
From Local Monitor		
From Remote Monitor		

Table 2. DDC Source Settings

To load the DDC information from the remote monitors, set jumpers JP1 ON and JP2 ON, re-install the chassis top and:

- Connect all cables, apply power to all Monitors, the Receiver unit, the Transmitter unit, and the computer, and wait until the boot-up sequence has completed.
- Disconnect the monitor cables from the Receiver unit (all monitors)
- Make sure that power is applied to the Transmitter, Receiver, computer, all remote monitors.
- Re-connect the remote monitors' video cables to the Receiver unit (all monitors)
- The DDC information is automatically read from the Receiver's monitors, transferred to the Transmitter unit, and saved in the Transmitter's DDC-EPROM.
- If the DDC information is successfully transferred and saved, the Video OK LED will blink rapidly for approximately 1 second. The Video OK LEDs (4) are located next to each of the four DVI connectors on the Receiver unit.

Color Depth Selection

The default color depth setting is "AutoSelect" which will transmit 24 bit high data compression if the screen allows it. The color depth is automatically reduced to 16 bit, depending on the actual screen content.
To set up the system to always transmit 24 bit color, remove power from the Transmitter unit and remove the top of the chassis exposing the circuit boards. Set the jumper on JP3 as shown below. (Four circuit boards need to be set). Refer to Figure 8 for the location of JP3. Replace the top chassis.

Color Depth	JP3
16Bit/24 bit AutoSelect (Depending on screen content – Default)	
24 bit	

Table 3. Color Depth jumper (Transmitter unit)

Next Frame Switching (Receiver unit)

The moment of switching to the next frame is set for switch during HSYNC (Default setting). This can be modified to switch during VSYNC by removing the jumper JP3 as shown in Figure 9 and Table 4.

To modify the next frame switching, first remove power from the Receiver unit. Next, remove the screws on the bottom and sides of the Receiver chassis and carefully remove the top of the chassis exposing the circuit boards. Locate the jumper JP3 as shown in figure 9. Set jumper JP3 as shown in Table 3.

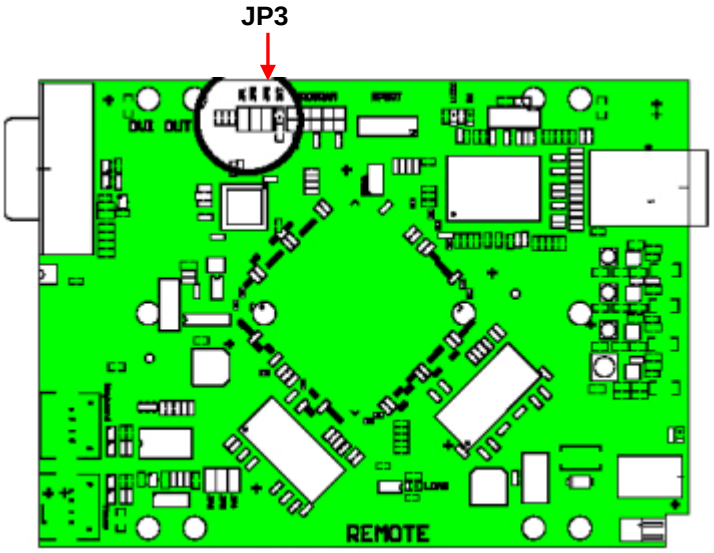


Figure 9. Jumper Settings (Receiver unit)

Moment to switch	JP3
Switching during HSYNC (Default)	
Switching during VSYNC	

Table 4. Moment of switching jumper (Receiver unit)

Switching during HSYNC will have a higher frame rate but horizontal screen breaks may be detectable. Switching during VSYNC has a lower frame rate with no horizontal screen breaks but stepping pictures are possible.

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 product, 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.

SAFETY

Product Safety

The CrystalView DVI Quad has been tested for conformance to safety regulations and requirements, and has been certified for international use. Like all electronic equipment, the CrystalView DVI Quad should be used with care. To protect yourself from possible injury and to minimize the risk of damage to the Unit, read and follow these safety instructions.

- Follow all instructions and warnings marked on this Unit.
- Except where explained in this manual, do not attempt to service this Unit yourself.
- Do not use this Unit near water.
- Assure that the placement of this Unit is on a stable surface or rack mounted.
- Provide proper ventilation and air circulation.
- Keep power cord and connection cables clear of obstructions that might cause damage to them.
- Use only power cords and connection cables designed for this Unit.
- Use only a grounded (three-wire) electrical outlet.
- 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.
- Operate this Unit only when the cover is in place.
- Do not use liquid or aerosol cleaners to clean this Unit. Always unplug this Unit from its electrical outlet before cleaning.
- Unplug this Unit from the electrical outlet and refer servicing to a qualified service center if any of the following conditions occur:
  - The power cord or 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.

APPENDICES

Appendix A – General Specifications

Dimensions	Width	Depth	Height
4-board model	9.0 in / 228 mm	5.6 in / 143 mm	1.75 in / 43 mm
5-board model	17.0 in / 432 mm	5.6 in / 143 mm	1.75 in / 43 mm
Weight			
4-board model	2.5 lbs ea. / 1.1 kg ea.		
5-board model	4.0 lbs ea. / 1.8 kg ea.		

Resolution DVI-D 1920 x 1200 @ 60Hz (Over all distances)
Resolutions less than 1600 x 1200 with a refresh rate of up to 75Hz.

Max Cable length CATx cable (AWG24)* – 460ft (140m)
CATx patch cable (AWG26/8)** – 230ft (70m)
Singlemode fiber cable (9µm) – 32,750ft (10Km)
Multimode fiber cable (50µm) – 1,300ft (400m)
Multimode fiber cable (62.5µm) – 650ft (200m)

* STP/UTP (CATx) cable acc. EIA/TIA 56A, TSB 36 or Digital STP 17-03170.
Four pairs AWG 24. wiring acc. EIA/TIA 568A (1000BaseT).

** STP/UTP (CATx) cable acc. EIA/TIA 56A, TSB 36 or Digital STP 17-03170.
Four pairs AWG 26/7. wiring acc. EIA/TIA 568A (1000BaseT).

Connectors

Video	DVI-I female
Keyboard	PS/2 or USB
Mouse	PS/2 or USB
USB	Transmitter - USB Type B, Receiver - USB Type A
Serial	Transmitter – Combination mini-Din 8 Receiver – DB9F
Audio	Transmitter – Combination mini-Din 8 or 3.5 mm analog audio jacks Receiver – 3.5 mm analog audio jacks (microphone and speaker)
Link	CATx models – RJ45f , Fiber models – LC type
Power	Pin and barrel jack

Power	100-240 VAC / 50-60 Hz / 5.0VDC / 4A
Transmitter unit	5.0VDC / 4.0A
Receiver unit	5.0VDC / 4.0A
Environmental	
Operating Temp.	41ºF to 113ºF (5ºC to 45ºC)
Storage Temp.	-13ºF to 140ºF (-25ºC to 60ºC)
Humidity	80% non-condensing max

Audio Specifications

Description	Bi-directional stereo audio
Transmission Method	Digitized virtually CD quality audio (16-bit, 38.4KHz)
Signal Levels	Line-Level (5 Volts p-p maximum)
Input Impedance	47K
Microphone Support	A microphone may be connected to the Receiver Unit. Pull-up resistor provides bias for condenser microphone. Option to set microphone amplification to +17dB.

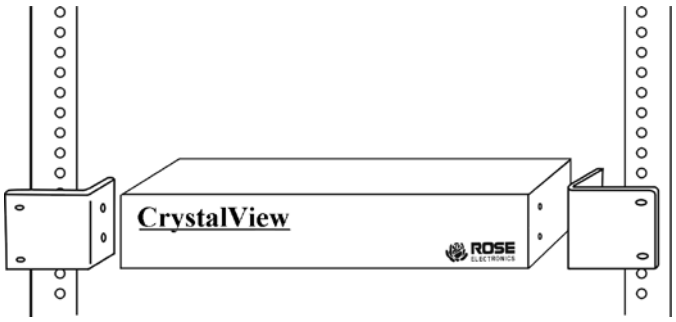
Serial Specifications

Baud Rate	Up to 19,200 Baud
Data Format	Format Independent
Flow Control	RTS, CTS, DTR, DSR (Sent across link)
Transmitter Connector	DB9 Female (DCE)
Receiver Connector	DB9 Male (DTE)

Appendix B – Part Numbers

Part Number	Description
CAB-DVIDMMnnn	DVI-D mm cable
CAB-DVIIMMnnn	DVI-I mm cable
CAB-USBABnnn	USB type A/B cable
CAB-DVIAUD005	DVI-D male and PS/2 kb/ms on CPU to DVI-D male
CAB-MD8D9A006	CPU Audio and Serial to mini-Din 8
CAB-SPMMnnn	Audio 3.5mm cable
CAB-D9MFnnn	RS232 DB9MF serial cable
RM-UM19	19 inch Rackmount Bracket for “M” chassis units
RM-UB19	19 inch Rackmount Bracket for “B” chassis units
RM-UD-1U	Under desk Rackmount plate

Appendix C – RackMount Kit



Use the RM-UM19 Rack-mount kit to install the product in a standard 19” server rack

Appendix D - Serial / Audio Setup and Operation

The Audio/Serial allows bi-directional stereo audio and a 3 wire (Tx/Rx - XON/XOFF) serial data link to be sent across the regular interconnection cable in addition to keyboard, mouse and DVI video.

Serial Interface - Setup and Operation

No setup or user adjustments are required. Please note that the serial link is always active.

The Receiver Unit's serial port is wired as DTE (i.e. the same as that on a PC). To connect a serial printer (or other DTE rather than DCE device) to the Receiver Unit, use a Null-Modem (crossover) cable between the Receiver Unit and the printer.

A serial touch screen may be plugged directly into the Receiver Unit.

Note: The devices support a 3-wire connection only (Tx/Rx/GND). Attached devices must support software handshake (XON / XOFF).

Audio Interface - Setup and Operation

The audio interface is line-level and is designed to take the output from a sound card (or other line-level source) and transmit the audio to a set of powered speakers connected to the receiver unit. Stereo audio may be transmitted either way across the link (simultaneously). No setup is required unless a microphone is connected to the remote unit.

Connect up the extender as follows:

Take the line-level output from your sound card (green connector) and connect it to the 'Line In' on the extender. Connect a set of powered speakers directly to 'Line Out' connector on the receiver unit.

Audio Interface - Using a Microphone

A microphone may be plugged into the 'Line In' connector on the Remote Unit. There are two ways of setting up a microphone:

1. The Transmitter Unit's 'Line Out' connection should normally be wired to the microphone input (Red) on your sound card. The sound card should then be set up to provide additional amplification (+20dB). This is the preferred connection method.
2. Alternatively, the Remote Unit itself can provide microphone amplification. To set this, open up the Remote Unit and locate the jumper labeled 'MIC' on the daughter board. Connect this jumper across the pins. The Transmitter Unit's 'Line Out' connection should then be wired to 'Line In' (Blue) on your sound card.

If your microphone is already amplified, follow the second method but DO NOT install the amplification jumper in the Remote Unit.

Appendix E - Kit Part Numbers

Video	Link	Description	CrystalView DVI (Kit)	CrystalView DVI (TX)	CrystalView DVI (RX)
			Transmitters + Receivers	Transmitters	Receivers
1x Video	CATx	1x DVI Only	CRK-2DTX0D1D/R	CRV-DLDTX0D1D/R	CRV-SRDTX0D1D/R
1x Video	CATx	1x DVI + HID	CRK-2DTXUD1D/R	CRV-DLDTXUD1D/R	CRV-SRDTXUD1D/R
1x Video	CATx	1x DVI+HID+USB2	CRK-2DTXTD1D/R	CRV-DLDTXTD1D/R	CRV-SRDTXTD1D/R
1x Video	CATx	1x DVI+PS2+USB2	CRK-2DTXTD1DP/R	CRV-DLDTXTD1DP/R	CRV-SRDTXTD1DP/R
1x Video	CATx	1x DVI+PS2	CRK-2DTXPD1D/R	CRV-DLDTXPD1D/R	CRV-SRDTXPD1D/R
1x Video	CATx	1x DVI + AUD/Ser	CRK-2DTX0D1D/R/AUD	CRV-DLDTX0D1D/R/AUD	CRV-SRDTX0D1D/R/AUD
1x Video	CATx	1x DVI+HID+AUD/Ser	CRK-2DTXUD1D/R/AUD	CRV-DLDTXUD1D/R/AUD	CRV-SRDTXUD1D/R/AUD
1x Video	CATx	1x DVI+HID+USB2+AUD/Ser	CRK-2DTXTD1D/R/AUD	CRV-DLDTXTD1D/R/AUD	CRV-SRDTXTD1D/R/AUD
1x Video	CATx	1x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DTXTD1DP/R/AUD	CRV-DLDTXTD1DP/R/AUD	CRV-SRDTXTD1DP/R/AUD
1x Video	CATx	1x DVI+PS2+AUD/Ser	CRK-2DTXPD1D/R/AUD	CRV-DLDTXPD1D/R/AUD	CRV-SRDTXPD1D/R/AUD
1x Video	FM	1x DVI Only	CRK-2DFM0D1D/R	CRV-DLDFM0D1D/R	CRV-SRDFM0D1D/R
1x Video	FM	1x DVI + HID	CRK-2DFMUD1D/R	CRV-DLDFMUD1D/R	CRV-SRDFMUD1D/R
1x Video	FM	1x DVI+HID+USB2	CRK-2DFMTD1D/R	CRV-DLDFMTD1D/R	CRV-SRDFMTD1D/R
1x Video	FM	1x DVI+HID+PS2+USB2	CRK-2DFMTD1DP/R	CRV-DLDFMTD1DP/R	CRV-SRDFMTD1DP/R
1x Video	FM	1x DVI+PS2	CRK-2DFMPD1D/R	CRV-DLDFMPD1D/R	CRV-SRDFMPD1D/R
1x Video	FM	1x DVI + AUD/Ser	CRK-2DFM0D1D/R/AUD	CRV-DLDFM0D1D/R/AUD	CRV-SRDFM0D1D/R/AUD
1x Video	FM	1x DVI+HID+AUD/Ser	CRK-2DFMUD1D/R/AUD	CRV-DLDFMUD1D/R/AUD	CRV-SRDFMUD1D/R/AUD
1x Video	FM	1x DVI+HID+USB2+AUD/Ser	CRK-2DFMTD1D/R/AUD	CRV-DLDFMXTD1D/R/AUD	CRV-SRDFMXTD1D/R/AUD
1x Video	FM	1x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFMTD1DP/R/AUD	CRV-DLDFMTD1DP/R/AUD	CRV-SRDFMTD1DP/R/AUD
1x Video	FM	1x DVI+PS2+AUD/Ser	CRK-2DFMPD1D/R/AUD	CRV-DLDFMPD1D/R/AUD	CRV-SRDFMPD1D/R/AUD
1x Video	FS	1x DVI Only	CRK-2DFS0D1D/R	CRV-DLDFS0D1D/R	CRV-SRDFS0D1D/R
1x Video	FS	1x DVI + HID	CRK-2DFSUD1D/R	CRV-DLDFSUD1D/R	CRV-SRDFSUD1D/R
1x Video	FS	1x DVI+HID+USB2	CRK-2DFSTD1D/R	CRV-DLDFSTD1D/R	CRV-SRDFSTD1D/R
1x Video	FS	1x DVI+HID+PS2+USB2	CRK-2DFSTD1DP/R	CRV-DLDFSTD1DP/R	CRV-SRDFSTD1DP/R
1x Video	FS	1x DVI+PS2	CRK-2DFSPD1D/R	CRV-DLDFSPD1D/R	CRV-SRDFSPD1D/R
1x Video	FS	1x DVI + AUD/Ser	CRK-2DFS0D1D/R/AUD	CRV-DLDFS0D1D/R/AUD	CRV-SRDFS0D1D/R/AUD
1x Video	FS	1x DVI+HID+AUD/Ser	CRK-2DFSUD1D/R/AUD	CRV-DLDFSUD1D/R/AUD	CRV-SRDFSUD1D/R/AUD
1x Video	FS	1x DVI+HID+USB2+AUD/Ser	CRK-2DFSTD1D/R/AUD	CRV-DLDFSXTD1D/R/AUD	CRV-SRDFSXTD1D/R/AUD
1x Video	FS	1x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFSTD1DP/R/AUD	CRV-DLDFSTD1DP/R/AUD	CRV-SRDFSTD1DP/R/AUD
1x Video	FS	1x DVI+PS2+AUD/Ser	CRK-2DFSPD1D/R/AUD	CRV-DLDFSPD1D/R/AUD	CRV-SRDFSPD1D/R/AUD

Video	Link	Description	CrystalView DVI (Kit)	CrystalView DVI (TX)	CrystalView DVI (RX)
			Transmitters + Receivers	Transmitters	Receivers
2x Video	CATx	2x DVI Only	CRK-2DTX0D2D/R	CRV-DLDTX0D2D/R	CRV-SRDTX0D2D/R
2x Video	CATx	2x DVI + HID	CRK-2DTXUD2D/R	CRV-DLDTXUD2D/R	CRV-SRDTXUD2D/R
2x Video	CATx	2x DVI+HID+USB2	CRK-2DTXTD2D/R	CRV-DLDTXTD2D/R	CRV-SRDTXTD2D/R
2x Video	CATx	2x DVI+HID+PS2+USB2	CRK-2DTXTD2DP/R	CRV-DLDTXTD2DP/R	CRV-SRDTXTD2DP/R
2x Video	CATx	2x DVI+PS2	CRK-2DTXPD2D/R	CRV-DLDTXPD2D/R	CRV-SRDTXPD2D/R
2x Video	CATx	2x DVI + AUD/Ser	CRK-2DTX0D2D/R/ AUD	CRV-DLDTX0D2D/R/AUD	CRV-SRDTX0D2D/R/AUD
2x Video	CATx	2x DVI+HID+AUD/Ser	CRK-2DTXUD2D/R/AUD	CRV-DLDTXUD2D/R/AUD	CRV-SRDTXUD2D/R/AUD
2x Video	CATx	2x DVI+HID+USB2+AUD/Ser	CRK-2DTXTD2D/R/AUD	CRV-DLDTXTD2D/R/AUD	CRV-SRDTXTD2D/R/AUD
2x Video	CATx	2x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DTXTD2DP/R/AUD	CRV-DLDTXTD2DP/R/AUD	CRV-SRDTXTD2DP/R/AUD
2x Video	CATx	2x DVI+PS2+AUD/Ser	CRK-2DTXPD2D/R/AUD	CRV-DLDTXPD2D/R/AUD	CRV-SRDTXPD2D/R/AUD
2x Video	FM	2x DVI Only	CRK-2DFM0D2D/R	CRV-DLDFM0D2D/R	CRV-SRDFM0D2D/R
2x Video	FM	2x DVI + HID	CRK-2DFMUD2D/R	CRV-DLDFMUD2D/R	CRV-SRDFMUD2D/R
2x Video	FM	2x DVI+HID+USB2	CRK-2DFMTD2D/R	CRV-DLDFMTD2D/R	CRV-SRDFMTD2D/R
2x Video	FM	2x DVI+HID+PS2+USB2	CRK-2DFMTD2DP/R	CRV-DLDFMTD2DP/R	CRV-SRDFMTD2DP/R
2x Video	FM	2x DVI+PS2	CRK-2DFMPD2D/R	CRV-DLDFMPD2D/R	CRV-SRDFMPD2D/R
2x Video	FM	2x DVI + AUD/Ser	CRK-2DFM0D2D/R/AUD	CRV-DLDFM0D2D/R/AUD	CRV-SRDFM0D2D/R/AUD
2x Video	FM	2x DVI+HID+AUD/Ser	CRK-2DFMUD2D/R/AUD	CRV-DLDFMUD2D/R/AUD	CRV-SRDFMUD2D/R/AUD
2x Video	FM	2x DVI+HID+USB2+AUD/Ser	CRK-2DFMTD2D/R/AUD	CRV-DLDFMTD2D/R/AUD	CRV-SRDFMTD2D/R/AUD
2x Video	FM	2x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFMTD2DP/R/AUD	CRV-DLDFMTD2DP/R/AUD	CRV-SRDFMTD2DP/R/AUD
2x Video	FM	2x DVI+PS2+AUD/Ser	CRK-2DFMPD2D/R/AUD	CRV-DLDFMPD2D/R/AUD	CRV-SRDFMPD2D/R/AUD
2x Video	FS	2x DVI Only	CRK-2DFS0D2D/R	CRV-DLDFS0D2D/R	CRV-SRDFS0D2D/R
2x Video	FS	2x DVI + HID	CRK-2DFSUD2D/R	CRV-DLDFSUD2D/R	CRV-SRDFSUD2D/R
2x Video	FS	2x DVI+HID+USB2	CRK-2DFSTD2D/R	CRV-DLDFSTD2D/R	CRV-SRDFSTD2D/R
2x Video	FS	2x DVI+HID+PS2+USB2	CRK-2DFSTD2DP/R	CRV-DLDFSTD2DP/R	CRV-SRDFSTD2DP/R
2x Video	FS	2x DVI+PS2	CRK-2DFSPD2D/R	CRV-DLDFSPD2D/R	CRV-SRDFSPD2D/R
2x Video	FS	2x DVI + AUD/Ser	CRK-2DFS0D2D/R/AUD	CRV-DLDFS0D2D/R/AUD	CRV-SRDFS0D2D/R/AUD
2x Video	FS	2x DVI+HID+AUD/Ser	CRK-2DFSUD2D/R/AUD	CRV-DLDFSUD2D/R/AUD	CRV-SRDFSUD2D/R/AUD
2x Video	FS	2x DVI+HID+USB2+AUD/Ser	CRK-2DFSTD2D/R/AUD	CRV-DLDFSTD2D/R/AUD	CRV-SRDFSTD2D/R/AUD
2x Video	FS	2x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFSTD2DP/R/AUD	CRV-DLDFSTD2DP/R/AUD	CRV-SRDFSTD2DP/R/AUD
2x Video	FS	2x DVI+PS2+AUD/Ser	CRK-2DFSPD2D/R/AUD	CRV-DLDFSPD2D/R/AUD	CRV-SRDFSPD2D/R/AUD

Video	Link	Description	CrystalView DVI (Kit)	CrystalView DVI (TX)	CrystalView DVI (RX)
			Transmitters + Receivers	Transmitters	Receivers
3x Video	CATx	3x DVI Only	CRK-2DTX0D3D/R	CRV-DLDTX0D3D/R	CRV-SRDTX0D3D/R
3x Video	CATx	3x DVI + HID	CRK-2DTXUD3D/R	CRV-DLDTXUD3D/R	CRV-SRDTXUD3D/R
3x Video	CATx	3x DVI+HID+USB2	CRK-2DTXTD3D/R	CRV-DLDTXTD3D/R	CRV-SRDTXTD3D/R
3x Video	CATx	3x DVI+HID+PS2+USB2	CRK-2DTXTD3DP/R	CRV-DLDTXTD3DP/R	CRV-SRDTXTD3DP/R
3x Video	CATx	3x DVI+PS2	CRK-2DTXPD3D/R	CRV-DLDTXPD3D/R	CRV-SRDTXPD3D/R
3x Video	CATx	3x DVI + AUD/Ser	CRK-2DTX0D3D/R/AUD	CRV-DLDTX0D3D/R/AUD	CRV-SRDTX0D3D/R/AUD
3x Video	CATx	3x DVI+HID+AUD/Ser	CRK-2DTXUD3D/R/AUD	CRV-DLDTXUD3D/R/AUD	CRV-SRDTXUD3D/R/AUD
3x Video	CATx	3x DVI+HID+USB2+AUD/Ser	CRK-2DTXTD3D/R/AUD	CRV-DLDTXTD3D/R/AUD	CRV-SRDTXTD3D/R/AUD
3x Video	CATx	3x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DTXTD3DP/R/AUD	CRV-DLDTXTD3DP/R/AUD	CRV-SRDTXTD3DP/R/AUD
3x Video	CATx	3x DVI+PS2+AUD/Ser	CRK-2DTXPD3D/R/AUD	CRV-DLDTXPD3D/R/AUD	CRV-SRDTXPD3D/R/AUD
3x Video	FM	3x DVI Only	CRK-2DFM0D3D/R	CRV-DLDFM0D3D/R	CRV-SRDFM0D3D/R
3x Video	FM	3x DVI + HID	CRK-2DFMUD3D/R	CRV-DLDFMUD3D/R	CRV-SRDFMUD3D/R
3x Video	FM	3x DVI+HID+USB2	CRK-2DFMTD3D/R	CRV-DLDFMTD3D/R	CRV-SRDFMTD3D/R
3x Video	FM	3x DVI+HID+PS2+USB2	CRK-2DFMTD3DP/R	CRV-DLDFMTD3DP/R	CRV-SRDFMTD3DP/R
3x Video	FM	3x DVI+PS2	CRK-2DFMPD3D/R	CRV-DLDFMPD3D/R	CRV-SRDFMPD3D/R
3x Video	FM	3x DVI + AUD/Ser	CRK-2DFM0D3D/R/AUD	CRV-DLDFM0D3D/R/AUD	CRV-SRDFM0D3D/R/AUD
3x Video	FM	3x DVI+HID+AUD/Ser	CRK-2DFMUD3D/R/AUD	CRV-DLDFMUD3D/R/AUD	CRV-SRDFMUD3D/R/AUD
3x Video	FM	3x DVI+HID+USB2+AUD/Ser	CRK-2DFMTD3D/R/AUD	CRV-DLDFMTD3D/R/AUD	CRV-SRDFMTD3D/R/AUD
3x Video	FM	3x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFMTD3DP/R/AUD	CRV-DLDFMTD3DP/R/AUD	CRV-SRDFMTD3DP/R/AUD
3x Video	FM	3x DVI+PS2+AUD/Ser	CRK-2DFMPD3D/R/AUD	CRV-DLDFMPD3D/R/AUD	CRV-SRDFMPD3D/R/AUD
3x Video	FS	3x DVI Only	CRK-2DFS0D3D/R	CRV-DLDFS0D3D/R	CRV-SRDFS0D3D/R
3x Video	FS	3x DVI + HID	CRK-2DFSUD3D/R	CRV-DLDFSUD3D/R	CRV-SRDFSUD3D/R
3x Video	FS	3x DVI+HID+USB2	CRK-2DFSTD3D/R	CRV-DLDFSTD3D/R	CRV-SRDFSTD3D/R
3x Video	FS	3x DVI+HID+PS2+USB2	CRK-2DFSTD3DP/R	CRV-DLDFSTD3DP/R	CRV-SRDFSTD3DP/R
3x Video	FS	3x DVI+PS2	CRK-2DFSPD3D/R	CRV-DLDFSPD3D/R	CRV-SRDFSPD3D/R
3x Video	FS	3x DVI + AUD/Ser	CRK-2DFS0D3D/R/AUD	CRV-DLDFS0D3D/R/AUD	CRV-SRDFS0D3D/R/AUD
3x Video	FS	3x DVI+HID+AUD/Ser	CRK-2DFSUD3D/R/AUD	CRV-DLDFSUD3D/R/AUD	CRV-SRDFSUD3D/R/AUD
3x Video	FS	3x DVI+HID+USB2+AUD/Ser	CRK-2DFSTD3D/R/AUD	CRV-DLDFSTD3D/R/AUD	CRV-SRDFSTD3D/R/AUD
3x Video	FS	3x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFSTD3DP/R/AUD	CRV-DLDFSTD3DP/R/AUD	CRV-SRDFSTD3DP/R/AUD
3x Video	FS	3x DVI+PS2+AUD/Ser	CRK-2DFSPD3D/R/AUD	CRV-DLDFSPD3D/R/AUD	CRV-SRDFSPD3D/R/AUD

Video	Link	Description	CrystalView DVI (Kit)	CrystalView DVI (TX)	CrystalView DVI (RX)
			Transmitters + Receivers	Transmitters	Receivers
4x Video	CATx	4x DVI Only	CRK-2DTX0D4D/R	CRV-DLDTX0D4D/R	CRV-SRDTX0D4D/R
4x Video	CATx	4x DVI + HID	CRK-2DTXUD4D/R	CRV-DLDTXUD4D/R	CRV-SRDTXUD4D/R
4x Video	CATx	4x DVI+HID+USB2	CRK-2DTXTD4D/R	CRV-DLDTXTD4D/R	CRV-SRDTXTD4D/R
4x Video	CATx	4x DVI+HID+PS2+USB2	CRK-2DTXTD4DP/R	CRV-DLDTXTD4DP/R	CRV-SRDTXTD4DP/R
4x Video	CATx	4x DVI+PS2	CRK-2DTXPD4D/R	CRV-DLDTXPD4D/R	CRV-SRDTXPD4D/R
4x Video	CATx	4x DVI + AUD/Ser	CRK-2DTX0D4D/R/AUD	CRV-DLDTX0D4D/R/AUD	CRV-SRDTX0D4D/R/AUD
4x Video	CATx	4x DVI+HID+AUD/Ser	CRK-2DTXUD4D/R/AUD	CRV-DLDTXUD4D/R/AUD	CRV-SRDTXUD4D/R/AUD
4x Video	CATx	4x DVI+HID+USB2+AUD/Ser	CRK-2DTXTD4D/R/AUD	CRV-DLDTXTD4D/R/AUD	CRV-SRDTXTD4D/R/AUD
4x Video	CATx	4x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DTXTD4DP/R/AUD	CRV-DLDTXTD4DP/R/AUD	CRV-SRDTXTD4DP/R/AUD
4x Video	CATx	4x DVI+PS2+AUD/Ser	CRK-2DTXPD4D/R/AUD	CRV-DLDTXPD4D/R/AUD	CRV-SRDTXPD4D/R/AUD
4x Video	FM	4x DVI Only	CRK-2DFM0D4D/R	CRV-DLDFM0D4D/R	CRV-SRDFM0D4D/R
4x Video	FM	4x DVI + HID	CRK-2DFMUD4D/R	CRV-DLDFMUD4D/R	CRV-SRDFMUD4D/R
4x Video	FM	4x DVI+HID+USB2	CRK-2DFMTD4D/R	CRV-DLDFMTD4D/R	CRV-SRDFMTD4D/R
4x Video	FM	4x DVI+HID+PS2+USB2	CRK-2DFMTD4DP/R	CRV-DLDFMTD4DP/R	CRV-SRDFMTD4DP/R
4x Video	FM	4x DVI+PS2	CRK-2DFMPD4D/R	CRV-DLDFMPD4D/R	CRV-SRDFMPD4D/R
4x Video	FM	4x DVI + AUD/Ser	CRK-2DFM0D4D/R/AUD	CRV-DLDFM0D4D/R/AUD	CRV-SRDFM0D4D/R/AUD
4x Video	FM	4x DVI+HID+AUD/Ser	CRK-2DFMUD4D/R/AUD	CRV-DLDFMUD4D/R/AUD	CRV-SRDFMUD4D/R/AUD
4x Video	FM	4x DVI+HID+USB2+AUD/Ser	CRK-2DFMTD4D/R/AUD	CRV-DLDFMTD4D/R/AUD	CRV-SRDFMTD4D/R/AUD
4x Video	FM	4x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFMTD4DP/R/AUD	CRV-DLDFMTD4DP/R/AUD	CRV-SRDFMTD4DP/R/AUD
4x Video	FM	4x DVI+PS2+AUD/Ser	CRK-2DFMPD4D/R/AUD	CRV-DLDFMPD4D/R/AUD	CRV-SRDFMPD4D/R/AUD
4x Video	FS	4x DVI Only	CRK-2DFS0D4D/R	CRV-DLDFS0D4D/R	CRV-SRDFS0D4D/R
4x Video	FS	4x DVI + HID	CRK-2DFSUD4D/R	CRV-DLDFSUD4D/R	CRV-SRDFSUD4D/R
4x Video	FS	4x DVI+HID+USB2	CRK-2DFSTD4D/R	CRV-DLDFSTD4D/R	CRV-SRDFSTD4D/R
4x Video	FS	4x DVI+HID+PS2+USB2	CRK-2DFSTD4DP/R	CRV-DLDFSTD4DP/R	CRV-SRDFSTD4DP/R
4x Video	FS	4x DVI+PS2	CRK-2DFSPD4D/R	CRV-DLDFSPD4D/R	CRV-SRDFSPD4D/R
4x Video	FS	4x DVI + AUD/Ser	CRK-2DFS0D4D/R/AUD	CRV-DLDFS0D4D/R/AUD	CRV-SRDFS0D4D/R/AUD
4x Video	FS	4x DVI+HID+AUD/Ser	CRK-2DFSUD4D/R/AUD	CRV-DLDFSUD4D/R/AUD	CRV-SRDFSUD4D/R/AUD
4x Video	FS	4x DVI+HID+USB2+AUD/Ser	CRK-2DFSTD4D/R/AUD	CRV-DLDFSTD4D/R/AUD	CRV-SRDFSTD4D/R/AUD
4x Video	FS	4x DVI+HID+PS2+USB2+AUD/Ser	CRK-2DFSTD4DP/R/AUD	CRV-DLDFSTD4DP/R/AUD	CRV-SRDFSTD4DP/R/AUD
4x Video	FS	4x DVI+PS2+AUD/Ser	CRK-2DFSPD4D/R/AUD	CRV-DLDFSPD4D/R/AUD	CRV-SRDFSPD4D/R/AUD

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