CrystalView EX DVI

► Extends uncompressed DVI HD video and USB 2.0 up to 330ft (100m) over a single CATx cable

► Supports resolutions up to 1920 x 1200 with 24-bit color depth

► Provides three high speed USB 2.0 ports with up to 40Mbps throughput and 500ma power

► Transparent USB provides true plug and play extension of USB 2.0 and 1.1 devices, including keyboard, mouse, flash drives, USB audio peripherals, touchscreens, and others

Features and Benefits

■ Uncompressed HD video extension provides superior display quality at resolutions up to 1920x1200 with 24-bit color depth

■ Supports USB 2.0 at speeds to 40 Mbps and USB 1.1 and 1.0 at speeds from 1.5 to 12 Mbps

■ Compatible with USB host ports: xHCI (USB 3.0), EHCI (USB 2.0), and OHCI/UHCI (USB 1.1)

■ Compatible with Windows, OS-X, and Linux

■ Transparent USB provides plug-and-play installation with no configuration required

■ Three remote USB ports provide 500mA each

■ USB 2.0 audio devices are supported

■ Supports HDCP

■ Optional locking DC power supplies available

■ CrystalView rack shelf for mounting 1 or 2 units available

Product Overview

The CrystalView EX DVI is a high performance KVM extender in a compact, low profile chassis. It is specially designed for quick and easy installation into industrial and enterprise work environments.

The CrystalView EX DVI transmits uncompressed HD DVI video and multiple USB signals up to 330ft (100m) over a single CATx cable. This means a CrystalView EX DVI Transmitter and a HD video source can be kept in a secure environment with the user's HD display console located in a control room up to 330ft (100m) away.
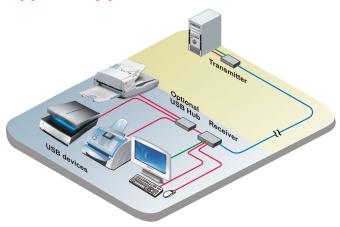
The product is also available with up to four videos as a multi-unit chassis (each video has USB extension), or a multi-head chassis (only one video has USB extension), or a video-only chassis (no USB). See separate datasheet at www.rose.com.

CrystalView 2-slot rackmount shelf

CrystalView EX DVI quad port multi-head unit with audio option

ROSE ELECTRONICS

WWW.ROSE.COM

Typical Application

Introduction   The CrystalView EX DVI extender consists of a local Transmitter unit and a remote Receiver unit connected by up to 330 feet (100 meters) of CATx cable. The Transmitter unit connects to a computer's DVI video, and USB port. The Receiver unit connects to the console DVI display and USB 1.1 or 2.0 devices.

Installation   Simply connect the Transmitter unit with power supply to the computer, connect the Receiver unit with power supply to the console display and USB equipment, and connect CATx cable between the two extenders.

Operation   The CrystalView EX DVI remote Receiver has three type A USB ports for connecting USB devices. USB hubs can also connect to these ports to increase the number of USB devices supported, up to four hubs per Receiver port, or a total of 30 USB devices. The Transmitter unit connects to USB 2.0 or 1.1 computer host ports.

Audio   The product supports audio over USB2.0 with the use of a USB to audio adapter on the receiver unit.

USB to audio converter

Specifications

Dimensions (W x D x H)	6.9" x 4.4" x 1.18" 175 x 112 x 30 mm
Weight	2.0 lb (0.9 kg)
Power	100-240 VAC 50-60Hz External adapters (two): +5V 3A grounded
Video resolution	DVI: uncompressed 1920x1200
Video Latency	Less than 1ms
USB speed	USB 2.0: up to 40Mbps USB 1.1: 1.5 to 12Mbps
USB host	xHCI (USB 3.0), EHCI (USB 2.0), OHCI/UHCI (USB 1.1)
USB hubs	Up to 4 hubs per single chain
USB max devices	30 USB devices
USB power	500 mA per USB port at the Receiver
Distance	DVI 1920x1200: 330' (100m)
Connectors	**Transmitter:** DVI video: DVI female USB host: USB Type B receptacle Link: RJ45 jack Power: Barrel jack **Receiver:** DVI video: DVI female USB device: 3 x USB Type A receptacles Link: RJ45 jack Power: Barrel jack
Indicators	Power: Green = powered and ready Link: Green = Link established USB: Green = USB host connected Video: Solid Green = HDCP video signal Blinking Green = non-HDCP video
Environment	Operating temp: 32°F – 104°F (0°C – 40°C) Rel. humidity: 20%–80%, non-condensing

Part numbers

CRK-1DTXT-EX6	CrystalView EX DVI KVM extender kit includes Transmitter, Receiver, and power supplies
CAB-DVIMMnnn	DVI male to male cable, nnn = length
CAB-USBABnnn	USB type A/B cable, nnn=length
RM-CRV-EX/19	19 inch, 2 slot rackmount shelf
RM-CRV-EX/PLT	Cover plate for 2 slot rackmount shelf
RM-UD/CRV-EX	Under desk bracket for compact chassis
TFR-05D300FSUB-1.7F	Replacement power supply for compact transmitter or receiver
CNV-USB-A2-7.1	USB to Audio Converter
CAB-SPMMxxx	Audio 3.5mm Cable