



- ▶ Extends uncompressed HDMI video and USB 2.0 up to 330ft (100m) over a single CAT x cable
- ▶ Supports resolutions up to 4K@30Hz, 1920 x 1200, and 1080p with 36-bit color, Deep Color, and x.v. Color
- ▶ Provides 3 high speed USB 2.0 ports with up to 40 Mbps throughput
- ▶ Transparent USB provides true plug and play extension of USB 2.0 and 1.1 devices, including keyboard, mouse, flash drives, audio peripherals, touchscreens, and more

Features and Benefits

- Uncompressed HD video extension provides superior display quality at resolutions up to 4K@30Hz, 1920 x 1200, and 1080p with 36-bit color, Deep Color, and x.v. Color
- 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 three types of computer 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
- HDMI embedded audio works normally
- USB 2.0 audio devices are supported
- HDCP and HDMI CEC transparent pass through
- Supports 2D and 3D
- Optional locking DC power supplies available



CrystalView 2-slot rackmount shelf

Product Overview

The CrystalView EX HDMI is a high performance 4K KVM extender in a compact, low profile chassis. It is ideally suited for quick and easy installation into industrial and enterprise work environments.

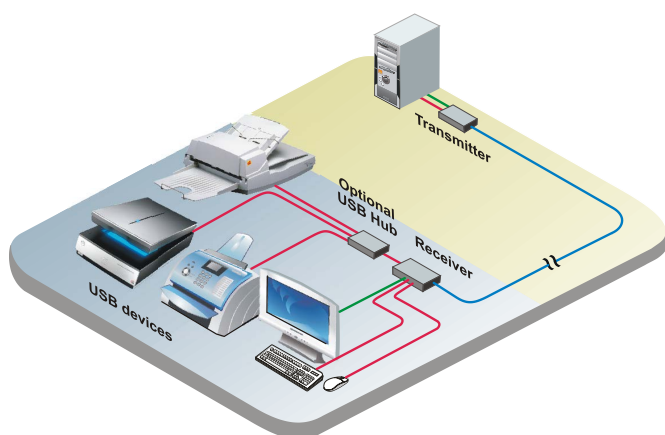
The product transmits uncompressed 4K HDMI video and multiple USB signals up to 330ft (100m) over a single CATx cable. This enables one to partition their computers or video sources in a secure and controlled environment while the display and USB peripherals are positioned in a location that is convenient and practical. Typical uses are for digital signage, audio-visual presentations, control rooms, education, medical, military, industrial, and many other applications.

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 EX HDMI quad port multi-head unit

Typical Application



Introduction The CrystalView EX HDMI 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 HDMI video, and USB port. The Receiver unit connects to the console HDMI 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 HDMI 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 through the normal embedded HDMI audio functionality. It also supports audio over USB2.0 as an audio device. Audio over USB is supported by the major operating systems.

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	Uncompressed 4K@30Hz, 1920x1200
Video Colors	36-bit color, Deep Color, x.v. Color
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
Connectors	Transmitter: HDMI video: HDMI female USB host: USB Type B receptacle Link: RJ45 jack Power: Barrel jack Receiver: HDMI video: HDMI 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-1DXTT-HD6	CrystalView EX HDMI KVM extender kit includes Transmitter, Receiver, and power supplies
CAB-HDMIMMnnn	HDMI 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

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datasheet-crystalview-ex-hdmi-2017-06-19

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