# CrystalView USB 1.1

CATx USB1.1 & Video Extender

## USB 1.1 & Video Extender

Extend video and USB 1.1 peripheral (including keyboard and mouse) up to 330 feet (100m) from the controlling computer

Supports USB 1.1 (low/ full speed) at 12Mb/s

Advanced automatic video compensation and equalization with optional skew adjustments

Available is single, dual, or quad video models

Supports Video resolutions up to 1920 x 1200

Designed to support high powered USB devices

## Features and Benefits

- Supports USB 1.1 (low and full speed up to 12Mb/s)
- Extend single, dual, or quad video and USB 1.1 peripherals up to 330 ft (100m) from a CPU using CATx cable (CAT5, 5e, 6, or 7)
- Cable length compensation adjustments (Equalization and gain) are automatically performed
- Video equalization and gain can be fine tuned with simple keyboard commands
- Automatic video skew adjustments (optional)
- VESA enhanced DDC enables plug-and-play capability
- Flash upgradeable firmware prevents obsolescence
- Supports:
  - SVGA, VGA, XGA, RGB video modes
  - Single, Dual, or Quad head VGA video cards
  - USB or PS/2 keyboards and mice
  - USB 1.1 low and full speed peripherals
  - Video resolutions up to 1920 x 1200 @ 60Hz
- Up to 500 ma of power is available at each USB port for powering high-power USB devices
- Optional +12V power adapter for the transmitter (Needed if USB port power in inadequate to power the transmitter)
- Operating system independent
- Rack mount kits available in 19”, 23”, and 24” sizes
- Made in USA

## The CrystalView™ USB1.1 Advantage .

The CrystalView USB1.1 Video and USB extender is the extender of choice for extending single, dual, or quad video and USB devices up to 330 feet from the controlling computer. The CrystalView USB1.1 extender makes this possible by the use of standard CATx cable. You can view single, dual, or quad video and fully operate and control your USB devices from as far away as 330 feet using standard CATx cable.

Remotely accessing your USB devices is made convenient in a variety of situations. You can locate users away from hazardous industrial environments where the USB device is located, locate devices away from areas vulnerable to theft of hardware and data, reduce noise and heat; increase desk and floor space.

Transmit high quality single, dual, or quad video using CATx cable. Cable length is no problem. The CrystalView USB1.1 automatically adjusts the video compensation and gain based on the cable length. The auto skew model automatically adjusts the RGB video components to provide a crystal clear display regardless of cable type, patch panels or cable routing.

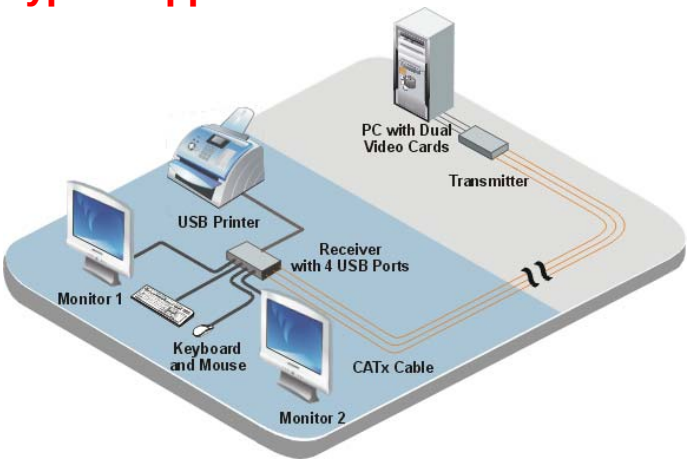
Extend your USB device up to 330 feet over industry standard CAT5 cable

Locate a video monitor(s) in remote control areas, classrooms, conference areas, video studios, and present the video from a computer 330 feet away. The +5VDC power adapter is required for both transmitter and receiver. The +12VDC adapter is required for the receiver and optional for the transmitter.

ROSE ELECTRONICS

WWW.ROSE.COM

## Typical Application




Extend your Video and USB device over CAT5 cable

**Overview** The CrystalView USB1.1 extender system consists of a transmitter and a receiver unit. The transmitter unit connects to your computers USB port and VGA single, dual, or quad video output ports. Connect up to four USB 1.1 device and one, two, or four video monitors, depending on the model to the receiver. The transmitter and receiver units are connected together with up to 330 feet of standard CATx cable. An AUX/KB USB or PS/2 connector is located on the receiver unit. One USB or PS/2 port for each video. This AUX/KB USB port is for keyboard video adjustments only.

**Installation** Installing the CrystalView USB1.1 extender is as simple as:

1. Connecting the transmitter's USB and video ports to a computer
2. Connecting the receiver's USB and video ports to your USB devices and video monitors.
3. Connect the transmitter and receiver units together with up to 330 feet of CATx cable
4. Apply power and its ready to use.

When you initialize the CrystalView USB1.1, the video CATx cable length between the transmitter and receiver units is automatically calculated, gain and equalization is adjusted automatically and everything is set up for you. Models with the automatic skew option will automatically adjust the RGB video components for a crystal clear display.

Models – The CrystalView USB1.1 extender models:

- Single Video / USB 1.1
- Dual Video / USB 1.1
- Quad Video / USB 1.1

## Part Numbers (with auto equalization)

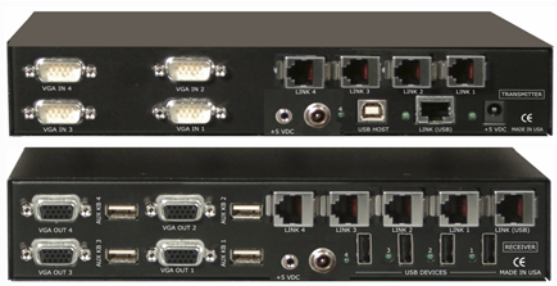
| | |
|---|---|
| CRK-1VH4U1TP-300 | Single VGA / USB 1.1 |
| CRK-2VH4U1TP-300 | Dual VGA / USB 1.1 |
| CRK-4VH4U1TP-300 | Quad VGA / USB 1.1 |
| CRK-1VP4U1TP-300 | Single VGA / USB 1.1 / AUX PS/2 |
| CRK-2VP4U1TP-300 | Dual VGA / USB 1.1 / AUX PS/2 |
| CRK-4VP4U1TP-300 | Quad VGA / USB 1.1 / AUX PS/2 |
| TRF-05D100FSUP-3.5 | +5VDC power adapter |
| TRF-12D200FSUP | +12VDC power adapter |
| RM-UMxx | Rack mount kit (xx=19", 23", or 24" |

/W suffix = Automatic skew Adjustment option

## Specifications

| Dimensions | Width | Depth | Height | Weight |
|---|---|---|---|---|
| Transmitter / Receiver in) | 8.8 | 5.6 | 1.75 | 3.3 lbs |
| (mm) | 22.4 | 14.2 | 4.45 | 1.5 kg |

| | |
|---|---|
| Distance | 330 feet (100 m) |
| Resolution | 1920 x 1200 @ 60 Hz |
| Compatibility | SVGA, VGA, XGA, RGB<br>USB 1.1 (low and full speed) / |
| Levels: | 0.7V p-p |
| Sync type | Separate / composite TTL level |
| Connectors: | |
| Transmitter | USB Type B<br>Interconnect – RJ45<br>Video – HD15M<br>Power – External 5VDC &<br>optional 12VDC adapter |
| Receiver | 4 - USB Type A<br>Interconnect – RJ45<br>Video – HD15F<br>Power – External 5 & 12VDC adapter<br>Keyboard* - USB Type A or PS/2*<br>* AUX/KB for video adjustments only |
| Receiver output | 500ma per USB output port |
| Environment | Operating Temp. 32°F-113°F (0°C-45°C)<br>Humidity 0% - 80% non-condensing |
| Approvals | CE |



Transmitter

Receiver

Rear view Quad Video Model


■ **Phone: 281-933-7673** ■ **E-mail: sales@rose.com** ■

10707 Stancliff Rd. Houston, TX 77099

Rose Electronics – Europe: +49 (0)2454 969442 Rose Electronics – Asia: +65 6324 2322




© Copyright 2007 Rose Electronics. All rights reserved

ROSE ELECTRONICS

WWW.ROSE.COM