CrystalView USB2

CATx USB2.0, Audio and Video Extender

USB 2.0, Audio & Video Extender

Extend video, audio and USB 1.1 and USB 2.0 peripherals (including keyboard and mouse) up to 330 feet (100m) from a USB 2.0 compliant computer (Audio feature is optional)

Supports USB 1.1 (low/ full speed) and USB 2.0 high speed peripheral devices at 480 Mbps

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) and USB 2.0 (high-speed) peripheral devices
- Extend single, dual, or quad video, USB 2.0 peripherals, and optional audio up to 330 ft (100m) from a CPU using CATx cable (CAT5, 5e, 6, or 7)
- CD quality audio available on the single and dual models (Microphone & speaker ports)
- 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
- Supports:
  - SVGA, VGA, XGA, RGB video modes
  - Single, Dual, or Quad head VGA video cards
  - USB or PS/2 keyboards for video adjustments
  - USB 2.0 high-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 power adapter for the transmitter (Needed if USB port power is inadequate to power the transmitter)
- Operating system independent
- Rack mount kits available in 19", 23", and 24" sizes
- Made in USA

The CrystalView USB2 Advantage . .

The CrystalView USB2 Video, audio, and USB extender is the extender of choice for extending single, dual, or quad video and USB 2.0 devices up to 330 feet from the controlling computer. The CrystalView USB2 extender makes this possible by the use of standard CATx cable. You can view single, dual, or quad video, listen to the audio, 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 USB2 automatically adjusts the video compensation and gain based on the detected 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.
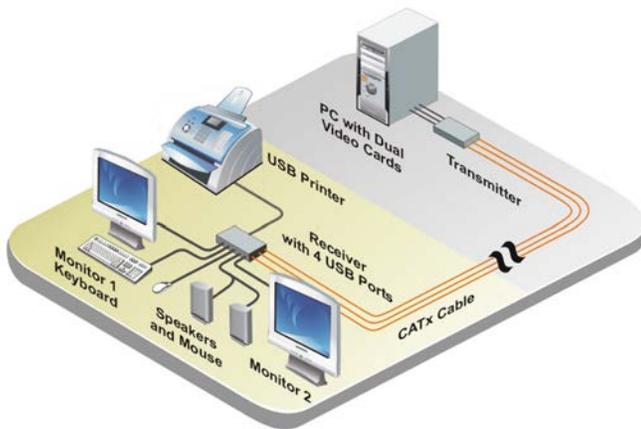
Locate a video monitor(s) in remote control areas, classrooms, conference areas, video studios, and present the video and audio from a computer 330 feet away.
If additional USB devices need to be connected to the receiver, you can add up To 3 USB hubs to increase the number of USB devices to 11.

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

Typical Application

Extend your Video and USB devices over CAT5 cable
(Audio optional)

Overview   The CrystalView USB2 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 or 2.0 device and one, two, or four video monitors, depending on the model. 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 or AUX/KB PS/2 port is for video adjustments only. Each AUX/KB port is associated with a video port.

Installation   Installing the CrystalView USB2 extender is as simple as:

1. Connecting the transmitter's USB and video ports to a USB 2.0 compliant computer (Audio optional – Speaker out only)
2. Connecting the receiver's USB and video ports to your USB devices and video monitors. (Audio optional – to speakers)
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 USB2, the 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 USB2 extender models:

- Single Video / USB 2.0
- Dual Video / USB 2.0
- Quad Video / USB 2.0

Part Numbers (with auto equalization)

CRK-1VH4U2TP-330	Single VGA / USB 2.0
CRK-2VH4U2TP-330	Dual VGA / USB 2.0
CRK-4VH4U2TP-330	Quad VGA / USB 2.0
CRK-1VP4U2TP-330	Single VGA / USB 2.0 / AUX PS/2
CRK-2VP4U2TP-330	Dual VGA / USB 2.0 / AUX PS/2
CRK-4VP4U2TP-330	Quad VGA / USB 2.0 / AUX PS/2
RM-UMxx	Rack mount kit (xx=19,23,or 24")
TRF-05D500FSUB/2.1	5V power adapter

/W suffix = Automatic skew Adjustment option
/A1 suffix = uni-directional Audio option
/A2 suffix = bi-directional Audio option
(Audio option available on the Single or Dual video models only)

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	150 feet (50 m)
Resolution	1920 x 1200 @ 60 Hz
Compatibility	SVGA, VGA, XGA, RGB USB 1.1 (low and full speed) / USB 2.0 (high-speed) Host – USB 2.0 compliant
Levels:	0.7V p-p
Sync type	Separate / composite TTL level
Connectors:	
Transmitter	USB Type B Interconnect – RJ45 Video – HD15M Audio – 3.5mm stereo audio jack (optional) Power – External 5VDC adapter
Receiver	4 - USB Type A Interconnect – RJ45 Video – HD15F Audio – 3.5mm stereo audio jack (optional) Power – External 5VDC adapter Keyboard* - USB Type A or PS/2* * AUX/KB for video adjustments only

Audio Data:

Signal level	5V p-p
Impedance	47KΩ
Connectors	3.5mm stereo jack
Transmission	16 bit, 38.4KHz Digitized audio
Speakers	Powered

Power	+5V DC / 4A external adapter
Receiver output	500ma per USB output port power at each USB port
Environment	Operating Temp. 32°F-113°F (0°C-45°C) Humidity 0% - 80% non-condensing
Approvals	CE

Transmitter

Receiver
With auxiliary
USB Keyboard
input

Receiver
With auxiliary
PS/2 Keyboard
input

NOTE: Aux keyboard input (USB or PS/2)
are for video adjustments only.

3.5mm Audio jacks installed on the Audio models
(Microphone & Speaker jacks)

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