



## **BROADCAST & POST Solutions**

*High Performance* KVM Solutions for  
WorkFlow and Control

**COMMAND CONTROL**

### **Connectivity Experts**

Professional High Performance KVM solutions  
for Broadcast, Post Production and Production  
environments

# BROADCAST & MEDIA TECHNOLOGY



## Where does KVM Fit into Modern Broadcast and Media?

KVM technologies have formed an integral part of media facilities for many years, allowing professionals to locate computers away from production environments, edit suites, galleries and transmission control rooms. Furthermore, KVM has always improved operational workflow by allowing multiple computers to be used by a single operator.

Modern broadcasting environments need more from their KVM than to simply extend and switch. Today's media professionals want improved ways to manage workflows, innovative ways to reconfigure infrastructure and a greater level of flexibility, allowing them to remain agile and competitive.

The solution to this is the KVM Matrix. This technology allows multiple users to access multiple computers over long distances.

### *News Rooms & Galleries*

Adder High Performance KVM technologies allow you to reconfigure rooms of equipment at the touch of a button. An example of how powerful this can be is in a 24 hour news room gallery. At peak times, a studio gallery can contain many individuals with very specific tasks, all designed to ensure smooth live broadcast. Live production at night often sees a much smaller team managing the studio, feeds and presenters. With our solutions, night staff can still access all the equipment used during the day from a single desk ensuring production quality remains high and in full control. When combined with other Adder products such as the CCS4USB Command & Control switch, managing multiple devices becomes even easier from one desk. This product allows a single operator to work across 4 computers using a single interface (e.g. keyboard, mouse, graphics tablet etc).

### *Studios and Production*

Studio environments are often rapidly changing spaces with evolving needs for AV and user interfaces. From one production to the next, the studio may need to change setup. Again, High Performance KVM is a floor managers best friend, routing and re-routing AV, adding and removing screens and interfaces according to need, multicasting content around the space with absolute reliability. Furthermore, each configuration is perfectly replicable from a library of user defined preset configurations using our Matrix technology.

### *Post Production for Film and TV*

Post facilities located around the world function as the workhorse of independent productions, studios and broadcasters alike. In the edit suite, the media professional is focused on crafting a viewing experience, taking into account story, pace, color feel and ensuring audio transports the viewers imagination into the productions focus. This is difficult to do when working with the constant hum of a computer and air conditioning continually counteracting the heat generated. This is why we extend machines out of the suite.

KVM extenders have been a feature of post production ever since the first PC based offline editing tools first appeared. Today, KVM performs an even greater function, allowing a facility to reconfigure suits for different uses at the press of a button or extend productions across multiple buildings. Therefore, allowing teams to work together securely and maintain a single point of storage, a growing concern to protect intellectual property.

Maintaining suite occupancy is important to the post business, and if you can't provision a suite for a users requirement, or if the process of provisioning means a suite is closed for any period of time, that's a lost revenue opportunity.

### *What makes Adder so unique?*

Adder was one of the first KVM manufacturers to recognise the growing need for digital KVM Matrices, and set about developing the ultimate solution. By stepping back from traditional KVM technologies which rely on bespoke transport architecture, we could clearly see the best way to move the vast amounts of data required in the digital domain was to use 'high speed networks', in this case IP. What's more, by using IP as the transport mechanism, we could leverage the billions of dollars spent developing IP switches every year and concentrate on the user, making sure our solutions deliver a truly transparent, user friendly, management friendly experience.

### *Who uses Adder High Performance KVM?*

Our High Performance KVM technologies are in use all around the world. They form integral parts of national broadcast installation, power creativity in many of the best known post production companies and help deliver the content at some of the largest studios in the world.

From Hollywood Studios & San Francisco CGI innovators, right through to Europes largest newsrooms Adder High Performance KVM keeps production moving.

Welcome to the world of

# High Performance KVM



## Twickenham Studios: *Cutting edge creativity*

At the beginning of 2012 the future was uncertain for the historic and world-renowned film facility, Twickenham Studios. The ailing, but much-loved studios were at one point on the verge of being sold for re-development, before being bought by London-based businessman and film enthusiast, Sunny Vohra. Vohra had the vision of turning Twickenham Studios around and re-awakening its reputation as a centre of excellence for filmmaking.

Part of this ambitious project was to modernise the out-dated sound stage to create one of the best post-production audio facilities in the world. As Tim Cavagin, head of sound at Twickenham Studios explains: "We needed to go digital to compete with other sound facilities. There has been massive investment in audio equipment to bring the studio up to date with its competitors as it was lagging behind for several years. When the studios were analogue, the equipment used to take up an entire room the size of the dubbing

stage itself. Mixers had to wait until a project was in their console before they could work on the sound, which meant they could only change the volume and equalisation."

To attract filmmakers from competitors such as Pinewood Shepperton, Twickenham Studios had to offer not only the latest post-production sound technology, but also a working environment that allows creative talent to work productively and comfortably. This is vital as directors, engineers and designers spend long days working collaboratively on complex projects. Further, they need the flexibility to seamlessly pass files between workstations or work on two files at the same time. Cavagin explained: "The director, mixers and myself, as Head of Sound, might want to work on the one screen."

Not least, Twickenham Studios needed equipment that offered superior controllability and reliability, as any mistakes could result in lost time and money.

### Rebirth

To provide the best working environment for sound professionals, Twickenham Studios has created two open plan sound rooms that enable individuals to access and share platforms from wherever they are, whether that is relaxing in a breakout area or sitting at the state-of-the-art Neve sound console. This has been made possible through using the AdderLink Infinity Dual, the most advanced keyboard, video and mouse (KVM) extension and matrix solution in the world.

Carl Childs, head of engineering at Twickenham Studios, said: "Our aim was to have the best equipment. AdderLink Infinity Dual allows us to treat a monitor as an IP address and allows us to ping a signal to whatever location we need to view it on, which is increasingly a need in this environment. The AdderLink Infinity has a great interface that is very user friendly. It is also extremely reliable. In the event of a power outage, everything remains as it was when power is restored. I've used various different brands over the years and I have always come back to Adder kit, I find it the most reliable. From this

perspective it was quite an easy decision for me to choose Adder.

“The centre piece of the room is the digital mixing console, which receives inputs from Mac and PC based playback machines, video servers and 2K projection editor solutions. This is why we needed a KVM solution of the calibre of the AdderLink Infinity. The Dual head capability is great, because there is often the need for our mixers to see what is happening on two different machines on the screens in front of them.”

Both theatres now have exactly the same equipment, meaning a job can start in one room and finish in another, which was not previously possible.

#### Bright future

Twickenham Studios now has Dolby Premier Studio Certification, a standard awarded technical excellence at every level of the studio's operation. This includes room acoustics, monitoring standards, equipment selection and installation standards, which are all measured and evaluated as part of the certification.

Cavagin said: “We now surpass our competitors and have the best dubbing theatre in the country, bar none. We offer the highest grade equipment in the best sound room, which is bigger than any other room in Soho.”

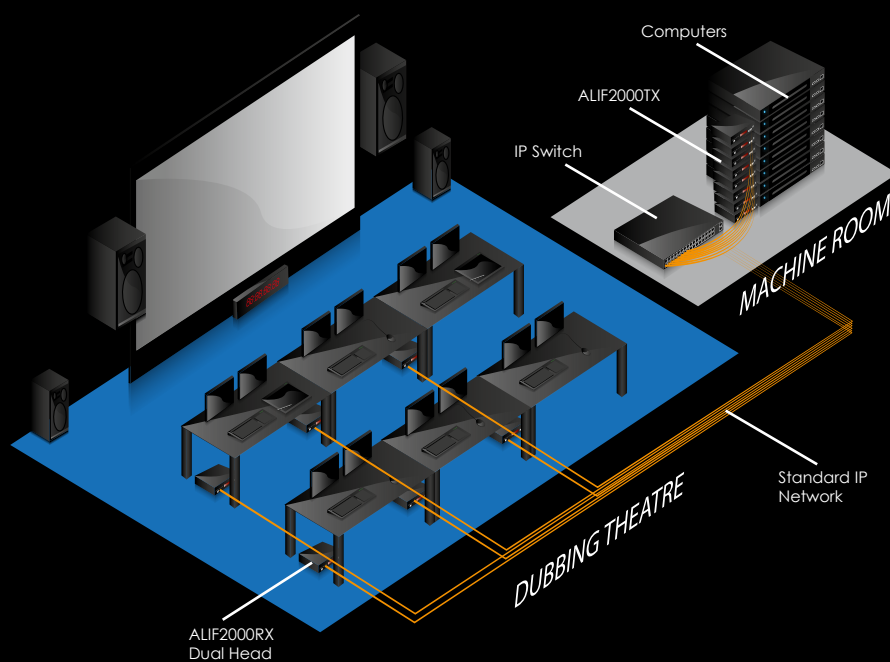
Childs explained the necessity of the AdderLink Infinity in the new studio setup: “People often forget how important KVM solutions are. This is because if the system is working exactly how you want it to, then you will not notice it.”

“An example of how it has improved working is the ability to relay system controls. Before, we had a hotkey solution, which meant editors had to remember combinations of keys, but now there is an interface, which enables the operators to bring up exactly what they want. This is great for when the pressure is on and removes the hassle



so that you can get on with the job in hand.”

Cavagin concludes: “Flexibility is key, being able to see whatever is going on in the studio at any particular point on one screen is vital. We need to get our hands on the audio ProTools and the visual ProTools; we have to access all of these screens at the flick of a switch. The switching capability makes us the UK's most flexible sound theatre. Mixers can now work with audio before it gets to the console, meaning they have control over every single element. What we have in the Adder system is fantastic.”



# BROADCAST & MEDIA TECHNOLOGY



Fanless, small form factor, DVI-D, USB, Audio and Serial

## ADDERLink INFINITY

Pure digital media extension over IP Network



### PRODUCT IN BRIEF

AdderLink Infinity is a high performance KVM (Keyboard, Video, Mouse) extender that enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station, whilst maintaining the same desktop experience.

- Plug and play
- 100m extension distance
- Standard single CATx cable
- 1920x1200 @60Hz maximum resolution
- USB mass storage supported plus: Keyboard, mouse, tablet and touch

### FEATURES

#### Perfect Digital Video, Real time control

Using a spatially-lossless encoding system, with 1:1 pixel mapping, AdderLink Infinity provides pixel perfect and colour accurate video with no artefacts. The digital video you receive is the same as the digital video leaving the remote computer

#### Single CATx cable and immunity from Interference

Many digital video and USB extenders suffer from electrical interference which cause video blanking and USB drops. Where these extenders require heavily shielded CAT6 or CAT7 cabling, AdderLink Infinity can be used with CAT5e, CAT6 or CAT7 cable and can even go through patch panels without limiting extension distances or video resolutions

#### Unlimited extension distances

Extension distance is not limited to a single 100 meter cable length - If you need to extend further, simply add a 1Gbe network switch to achieve an additional 100 metres. This can be repeated many times but it is advised that you use a private network or separate VLAN.

#### USB 2.0 with Class control

Enables connection of any USB human interface device from mice and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers and Mass Storage devices. For applications where security is of high importance, the system has the ability to disable the use of non HID devices, meaning there is no need to

physically block USB ports to prevent the use of Mass storage devices

#### EDID management

Intelligent EDID management allows the true characteristics of the monitor to be passed back to the computer. Alternatively, the user can choose to force the resolution by selecting from a predefined list.

#### Plug and Play

AdderLink Infinity extender devices are delivered in a zero config state so you can plug them in and start working on them straight away. There is no need for drivers or software to be installed.

#### AdderLink Infinity Matrix

By the addition of AdderLink Infinity management system (A.I.M.) you can turn multiple point to point extenders into a truly scalable digital KVM matrix system that allows any workstation to connect to any computer connected to the network. See the Adderlink Infinity Matrix data sheet for details.





Fanless, small form factor, Dual DVI-D, USB, Audio and Serial

## ADDERLink INFINITY dual

Pure digital media extension over IP featuring dual head & dual link video

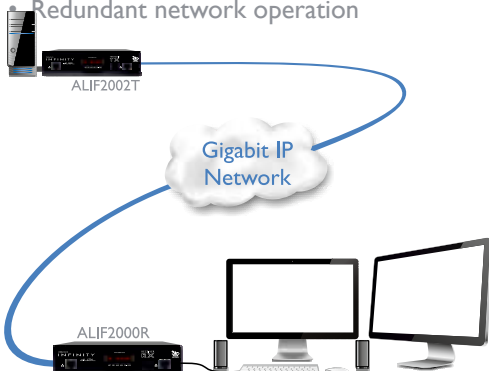


### PRODUCT IN BRIEF

AdderLink Infinity dual is a high performance KVM (Keyboard, Video and Mouse) extender that forms part of the ALIF matrix solution. This enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station, whilst maintaining a pixel perfect desktop experience.

- Plug and play
- 100m extension distance on single CATx; unlimited using standard IP network
- 500m to 10km over fiber
- Dual Link or dual head configuration
- 2560x1600 @60Hz maximum resolution
- USB mass storage supported plus: Keyboard, mouse, tablet and touch
- Support for MacPro

Redundant network operation



### FEATURES

#### Perfect digital video, real time control

Using a spatially-lossless encoding system, with 1:1 pixel mapping, AdderLink Infinity provides pixel perfect and color accurate video with no artefacts. The digital video you receive is the same as the digital video leaving the remote computer.

#### Single CATx cable or fiber with immunity from interference

From the outset we designed AdderLink Infinity units around a highly robust signaling method. This vital core asset is what gives you the freedom to use the full variety of cable links that you typically find within an average structured cabling system. The result is that you can achieve reliable links, regardless of whether the cables are CAT5e, CAT6 or CAT7. The AdderLink Infinity dual also offers the option of up to 10km distances with fiber.

#### Unlimited extension distances

Extension distance is not limited to a single 100 meter cable length - If you need to extend further, simply add a 1GbE network device to achieve an additional 100 meters. This can be repeated many times. The units are also fitted with SFP cages to accept fiber optic transceivers which enable much greater extension distances.

#### Support for MacPro (Dithered Video)

Some graphics cards use a technique called dithering to give the appearance of a deeper color depth than is actually the case. As a result, dithering can significantly increase the normal video data rates. ALIF2002T has a feature called Magic Eye which supports dithering without allowing it to degrade overall link performance.

#### USB 2.0 with class control

Enables connection of USB devices from mice and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers, alongside mass storage devices. For applications where security is of high importance, the system has the ability to disable the use of non-HID devices, meaning there is no need to physically block USB ports to prevent the use of mass storage devices.

#### EDID management

Intelligent EDID management allows the true characteristics of the monitor to be passed back to the computer. This ensures perfect video display without the additional configuration.

#### Plug and Play

AdderLink Infinity extender devices are delivered in a zero config state so you can plug them in and start working on them straight away. There is no need for drivers or software to be installed.

#### Redundant network operation

The units are able to detect whether the network is in operation and can automatically change to its second network port if it detects a failure.

#### AdderLink Infinity Matrix

With the addition of AdderLink Infinity management system (A.I.M.) you can turn multiple point-to-point extenders into a truly scalable digital KVM matrix system that allows any workstation to link with any computer connected to the network. See the Adderlink Infinity Matrix data sheet for details.

# BROADCAST & MEDIA TECHNOLOGY



## Rack Mount System Wide Network Management

## ADDERLink A.I.M.

AdderLink Infinity network management suite



### PRODUCT IN BRIEF

The A.I.M. management server is a control suite which transforms AdderLink Infinity extenders into a digital matrix solution. Using standard IP network switches it is possible to route any user station to any computer attached to the network without any compromises to HD video quality or control. It also allows co-operative sharing of computers and multicasting of video to any destination.

- Intuitive, multi-lingual user interface
- Multiple switching methods
- User access rights
- Full audit trail
- Easy management
- Open API for third party control

### FEATURES - System administration

#### Easy matrix setup

Using Zero Configuration networking, A.I.M. automatically obtains the MAC addresses of extender devices as they are attached to the network. The administrator allocates IP addresses, names and locations so that devices are easy to identify, configure and control.

#### Administration dashboard

Accessed via a web browser, the dashboard gives the current overview of system connections and users. Tabs allow you to navigate between settings and device or user sub-menus.

#### User access management and audit trails

Administrators can manage access rights to each device on a user by user basis either manually through the web browser or automatically using Active Directory. Reports showing the history of devices, user logins and device connections can be viewed and exported to a CSV file.

#### Control Channel and Presets connections

A.I.M. can be used to make connections between any pair of transmitter and receiver devices centrally from within the management system. Using Presets, a list of predefined connections, multiscreen, video wall or signage setups can be activated with a single click.

#### Centralized firmware upgrades

As well as managing its own firmware upgrade, A.I.M. manages the upgrade of each device on the network and can deploy firmware to hundreds of devices at the same time, meaning a system-wide upgrade takes only a few minutes.

### FEATURES – Intuitive user interface

#### On screen display at each user station

Users login and choose channel connections from an intuitive OSD similar to that of a Digital TV. Users can also use Presets to change channels for multiple screens across multiple receivers.

#### Favorites and hotkey switching

Each user can select their favorite channels within the OSD and allocate a hotkey for fast switching between channels.

#### Choice of connection modes

Administrators can choose to give users the ability to connect in three modes: View only, Shared or Exclusive. Each permitted mode is then made available within the OSD.

#### Fast video and USB switching

The video switching time between computers is less than one second with up to a further two seconds to connect the USB to support its full capabilities.

#### Open API for third party control systems

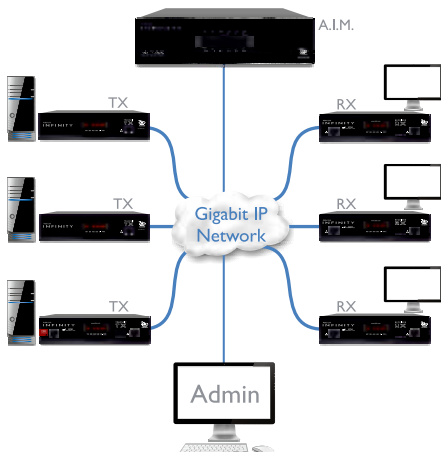
Adder Technology publishes a simple API structure to allow easy integration with other third party control systems supplied by companies such as HRS, AMX, Crestron or MediaLon.

#### Remote OSD

Enables users to push content to any screen on the network to which they have permission.

#### International language support

The OSD now supports 12 international languages and fonts, including Chinese (simplified and traditional), Japanese, Korean, Russian and 7 European languages. Localized help menus are also included.







Fanless, small form factor,  
Dual Link DVI, USB, Audio and Serial

## ADDERLink INFINITY dual VNC

Dual Link, dual head digital video and USB with VNC remote access



### PRODUCT IN BRIEF

AdderLink Infinity dual VNC is a high performance KVM server that can be accessed remotely via IP with a VNC viewer and / or simultaneously with an AdderLink Infinity receiver. Its base feature set is the same as the AdderLink Infinity dual with the addition of:

- View 2560x1600 or two 1920x1200 sessions
- RealVNC server with RFB 3.3 support
- Up to 256bit AES and RSA 2048 encryption
- VM support and RS232 for power control
- Supports 16 users simultaneously
- Out of band BIOS level access
- Compatible with AdderLink Infinity Matrix

### FEATURES

#### Remote monitoring, remote control, remote maintenance

View and access your computers remotely, out of band without the need to install software.

#### High video performance over VNC

The VNC server can be accessed by a standard web browser but for superior graphical performance, a RealVNC viewer should be used. Free of the limitations of HTTPS, RealVNC greatly enhances video performance. The unit serves pixel perfect video up to 24bit color at a maximum of 2560x1600 or two at 1920x1200. RFB 3.3 is supported for open source VNC viewers.

#### Ideal for control rooms

The unit can simultaneously serve a VNC equipped video wall processor and an AdderLink Infinity equipped user station reducing the complexity of control room infrastructure.

#### Highly secure

Employing enterprise grade security (using AES 256bit encryption and RSA 2048bit public key authentication) as standard, the unit is further enhanced by the use of RealVNC that allows for the creation of ciphered user communications.

#### USB and Virtual Media support

To transfer files from remote users to controlled computers, the system has been engineered to act as a conduit through which data can be passed. Files can be transferred via IP onto the

AdderLink Infinity dual and onto the target computer by means of a USB Virtual Media port.

#### Power control through RS232 serial interface

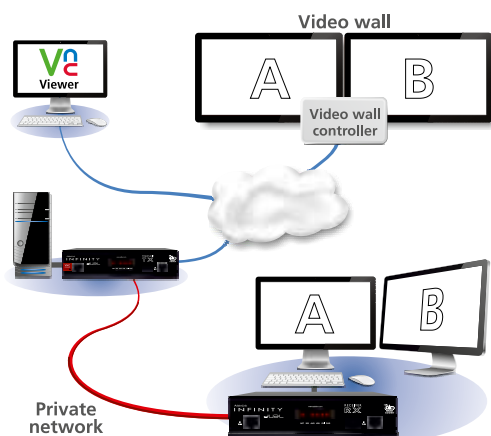
The unit has an RS232 port to allow communication to devices like power switches, allowing remote re-booting of the target computer.

#### User management

On the VNC server, you can create up to 16 user profiles with defined access rights. The unit can be accessed by up to 16 users at any one time.

#### Digital KVM matrix

By the addition of AdderLink Infinity Management system (A.I.M.) you can turn multiple point to point extenders into a matrix system that allows any workstation to connect to any computer connected to the network. See the A.I.M. data sheet for details.

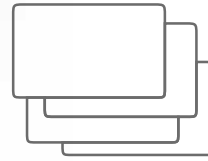


# BROADCAST & MEDIA TECHNOLOGY



## ADDER Free-Flow

Unique technology from the experts in connectivity.  
Free-Flow - Automated mouse switching.



FreeFlow

### PRODUCT IN BRIEF

The Adder Free-Flow represents true innovation in KVM switching. For the first time, Free-Flow allows users to automatically switch between target computers simply by moving the mouse pointer from screen to screen. What makes this such a revolution is that you no longer need software to be installed on your mission critical computers for Free-Flow to function. Adder Free-Flow resides on the switch itself, sensing screen boundaries and instantaneously switching keyboard, mouse and audio to the defined target computer. Free-Flow can be configured for almost any combination of screens using the included configuration application which allows you to declare the individual screen sizes and visually position each one relative to the others.

### FEATURES

#### Edge Detect Technology

Adder's Edge Detect Technology allows you to switch between computers simply by moving your mouse cursor across screen boundaries. This detection happens inside the switch itself which means you do not need to install software on your computers. The onboard detection uses a configuration file loaded onto the switch to indicate screen position and size relative to each other.

#### Multihead Capability

Free-Flow includes support for multihead windows systems allowing up to eight heads per computer. This means, using the Free-Flow driver, Free-Flow can be used across as many as 32 screens per switch.

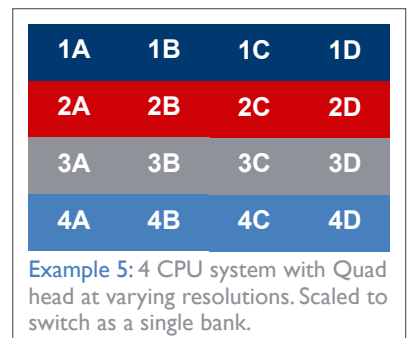
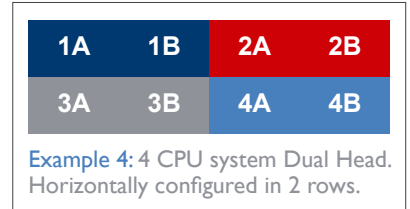
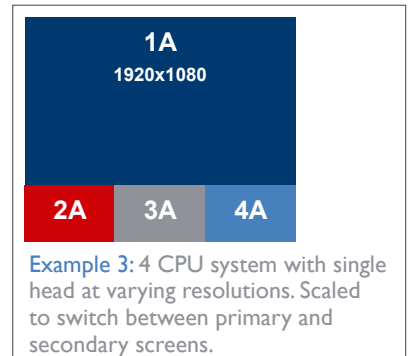
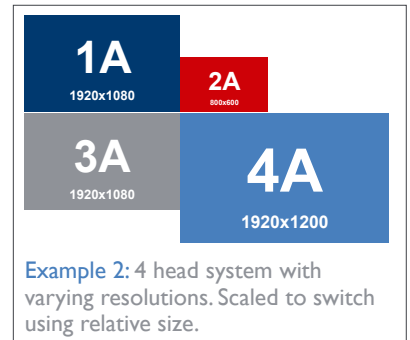
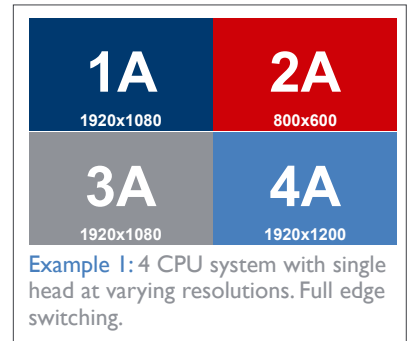
#### Screen Banking

When used in combination with an additional switch, a user can control multiple banks of screens. For example, using the CATxIP4000 in front of the Free-Flow switches, as many as 24 screen banks can be controlled. That's as many as 768 heads/screens.

#### Broad USB 2.0 Hi Speed device support

A vast range of USB devices can be connected to the CCS4USB. From non standard human interface devices to printers and scanners. This gives great flexibility. For example, you could be scanning a set of documents onto one computer whilst working on another and printing from yet another, all at the same time. The USB 2.0 switching action has been carefully engineered to ensure maximum computer reliability when connecting and disconnecting USB devices.

Intuitive MultiScreen edge detect  
KM-A switch with USB True Emulation





Compact KM-A switch for a single user to access multiple systems and screens

## ADDER CCS4USB

Control switch for use with USB peripherals and audio, with RS232 control



### PRODUCT IN BRIEF

The Adder CCS4USB is a breakthrough in command and control switching, delivering USB 2.0, bidirectional audio and True Emulation technology. CCS4USB is video independent (so can be used alongside DVI, VGA, DisplayPort, etc.). The CCS4USB allows you to work across all 4 computers and screens as though they were a single interface. Adder's unique USB True Emulation technology enables instantaneous and reliable hot key switching whilst also supporting the extra keys and features of enhanced keyboards and mice. Furthermore, the CCS4USB includes two independently switchable USB 2.0 Hi Speed channels and an audio channel, giving the user the flexibility to attach selected peripherals to different computers.

### FEATURES

#### True Emulation USB 2.0 technology

The CCS4USB is the first Command and Control KM-A switch to feature Adder's advanced USB True Emulation technology. Emulated USB provides an instantaneous and reliable switching action and makes keyboard hot key and mouse switching possible. However, previous implementations have used only generic emulations and consequently have only been able to support the most basic keyboard and mouse features. Adder's revolutionary True Emulation technology overcomes this frustrating limitation by emulating the true character of the connected devices to all the computers simultaneously. This means that you can now use the extra function keys, wheels, buttons and controls that are commonly found on modern keyboards and mice.

#### Independent simultaneous device selection

Flexibility is key to the CCS4USB. The switch enables you to use the keyboard and mouse on one computer whilst your USB peripherals are connected to other computers and your speakers are playing audio from yet another. You can of course still switch all the connected devices to any one of the connected computers.

#### Channel selection options

The CCS4USB can be switched using selectable keyboard hot keys, 3 button mice or the front panel controls. Optionally, you can also use the RC4 remote switch to make your selection. These switching options allow you to rapidly reassign connected devices to any of the connected computers.

#### Broad USB 2.0 Hi Speed device support

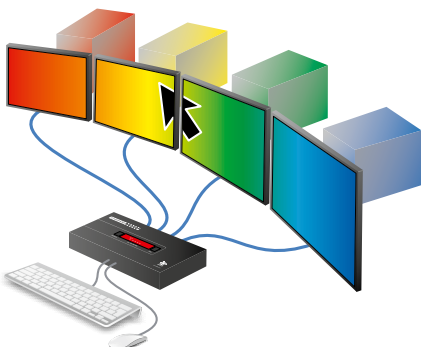
A vast range of USB devices can be connected to the CCS4USB. From non standard human interface devices to printers and scanners. This gives great flexibility. For example, you could be scanning a set of documents onto one computer whilst working on another and printing from yet another, all at the same time. The USB 2.0 switching action has been carefully engineered to ensure maximum computer reliability when connecting and disconnecting USB devices.

#### Free-Flow Technology

Designed to work with CCS4USB, Free-Flow allows users to automatically switch between target computers simply by moving the mouse pointer from screen to screen. What makes this such a revolution is that you no longer need software to be installed on your mission critical computers for Free-Flow to work.

#### CCS-XB and Remote Control

An 'Options' port enables the CCS4USB to be remotely switched using simple ASCII codes. The port enables a 4 button switch unit (RC4) to be used with the CCS4USB. The same port can also be used to drive the CCS-XB lighting module indicating when the current display is in use. This LED module features user configurable light colour and intensity. An RC4 can also be connected through this module via a second options port.



# BROADCAST & MEDIA TECHNOLOGY



Fanless, small form factor,  
DVI-D, USB and audio

## ADDERLINK X-DVI PRO

Digital video extender with USB 2.0 over a single cable



### PRODUCT IN BRIEF

AdderLink X-DVI PRO is a high performance KVM (Keyboard, Video and Mouse) extender that enables you to locate your critical computing hardware in a secure and temperature controlled environment, away from the user work station environment, whilst maintaining the same user experience. It can transmit a Single Link DVI video stream, USB 2.0 and analog audio over a single CATx cable.

- Plug and play
- 50 meter extension distance
- 1920x1200 @60Hz maximum resolution
- USB 2.0 Low and Full speed
- Keyboard, mouse tablet and touch

### FEATURES

#### Perfect digital video, real time control

The X-DVI PRO extender uses an uncompressed system whereby every pixel of every frame are sent without loss. HDMI video and audio can be extended with the correct adapter cable, although HDCP and CEC are not supported.

#### 50 meters over a single CATx cable

Video, USB 2.0 (Low and Full speed) and audio all pass along a single cable, providing up to 50 meters of extension. Distance is dependent upon video resolution, the CATx cable type, and the number of connection breaks for patch panels and wall plates. See table on reverse for details.

#### USB 2.0

Enables connection of any USB human interface device from mice and keyboards through to graphics tablets, jog shuttles, joysticks, 3D explorers and mass storage devices. Full speed (12Mbps) isochronous devices such as headsets are supported.

#### Power efficiency

The X-DVI PRO extender is designed to be highly power efficient and run with the minimum of input. In fact, the transmitter unit is so energy efficient that it can be powered solely from the host computer's USB connection.

#### EDID management

The system has intelligent EDID management to allow the true characteristics of the monitor to be passed back to the computer.

#### Plug and Play

AdderLink X-DVI PRO extenders are delivered in a zero config state so you can plug them in and start working with them straight away. There's no need for drivers or software to be installed.

#### Analog audio

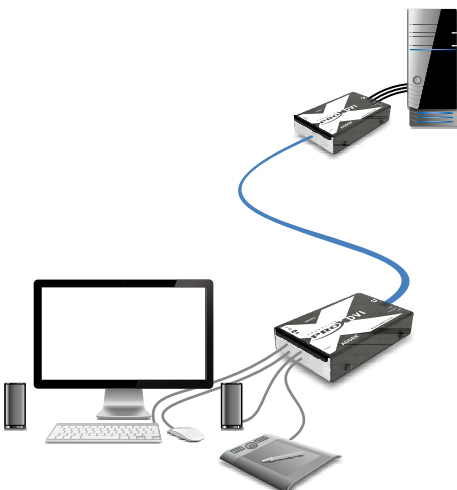
Stereo CD quality (stereo channel 16 bit sampled at 44.1kHz) is available to transfer audio from local to remote for line out.

#### Digital audio

Supports 8 channels of HDMI audio simultaneously with analog audio.

#### Built to last

Adder Technology have a well-earned reputation for creating products that perform well and stay the course. The X-DVI PRO extender units are no exception and feature tough metallic enclosures to ensure they can easily withstand everyday treatment. The internal components and external connectors too are selected for their reliability in addition to their performance characteristics.





Fanless, small form factor,  
Dual DisplayPort, USB,  
Audio and Serial

## ADDERLink XD522

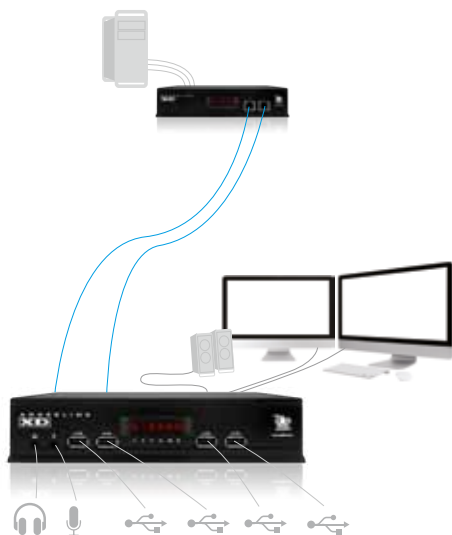
High resolution DisplayPort video extender with USB 2.0 over a single cable



### PRODUCT IN BRIEF

AdderLink XD522 is a high performance KVM (Keyboard, Video, Mouse) extender that enables you to locate your critical computing hardware in a secure and temperature controlled environment away from the user work station whilst maintaining the same user desktop experience.

It can transmit either two 1920x1200 video streams or one higher resolution video stream (2560x1600 WQXGA), digital audio (S/PDIF), analog audio, Hi-Speed USB 2.0 and USB 2.0 (full and low speed) over CATx cables.



### FEATURES

- Plug and play
- 150 meter extension distance for a single 1920x1080 screen
- 100 meter extension distance for two 1920x1200 screens or a single high resolution screen to 2560x1600
- Supports Mac Cinema Display (2560x1440)
- USB 2.0 Hi-Speed for mass storage devices plus:
  - Keyboard, mouse tablet and touch
  - S/PDIF and analog audio

#### Perfect Digital Video, Real Time Control

The system is uncompressed, where by every pixel of every frame are sent without loss. The receiver supports DisplayPort Dual Mode (DP++) which means that monitors which only support HDMI or DVI can be used (with the correct adapter cable).

#### Single CATx Cable

Video, USB 2.0 (HID-only) and audio all pass along a single cable. A second CATx cable is required for the Hi-Speed USB 2.0 extension.

#### Up to 150 Meter Extension Distances

Distance is dependent on the monitor resolution, number of monitors, cable type and the number of connection breaks for patch panels and wall plates. See table on reverse for details.

#### USB 2.0

Enables connection of any USB human interface device from mice and keyboards through to graphics tablets, jog shuttles, joysticks and 3D explorers. Mass storage

devices and isochronous devices such as webcams and headsets can be used through the transparent USB 2.0 Hi-Speed port.

#### EDID Management

The system has intelligent EDID management to allow the true characteristics of the monitor to be passed back to the computer.

#### Plug and Play

The AdderLink XD522 extender is delivered in a zero config state so you can plug the units in and start working with them straight away. There is no need for drivers or software to be installed.

#### Digital Audio

Supports the S/PDIF interface via an optical 3.5mm jack socket (dual use with analog audio via mini Toslink).

#### HD Quality Analog Audio

HD audio quality (stereo channel 24 bit sampled at 96kHz) is available to transfer audio from local to remote for Line in / Line out. Microphone in and headphone use cases are also supported.

# BROADCAST & MEDIA TECHNOLOGY



KVMA switch to share Digital Video and USB between multiple sources

## ADDERVIEW 4PRO-DP

Ultimate flexibility for sharing high-res screens and USB peripherals



### PRODUCT IN BRIEF

The AV4PRO-DP is designed to enable four computers equipped with DisplayPort technology to be controlled from a single KVM console. The switch makes use of Adder's True Emulation technology which enables USB HID (Low and Full speed) devices to be continuously emulated to each computer. This unique technology enables instantaneous and reliable hot key switching whilst also supporting the extra keys and features of enhanced keyboards and mice.

Furthermore, the ADDERView includes two independently switchable USB 2.0 channels (Low, Full and High speed) and an audio channel, giving the user the flexibility to attach selected peripherals to different computers.

### FEATURES

#### DisplayPort video support

The AV4PRO-DP is DisplayPort 1.1 compliant (4 lanes at 2.7Gb/s). DisplayPort's high performance is important for enabling new digital display experiences. For example, DisplayPort can easily support high end monitors featuring 2560x1600 resolution at 60Hz refresh rate and 10 bits per color, 1920x1200 resolution at 120Hz refresh rate, and Full HD monitors at 1920x1080 resolution and 60Hz refresh rate at 12 bits per color without latency, all over standard cables.

#### USB True Emulation 2.0 technology

The AV4PRO-DP belongs to the first KVMA range of switches to feature Adder's advanced USB True Emulation technology. Emulated USB provides an instantaneous and reliable switching action and makes keyboard hot key and mouse switching possible. However, previous implementations have used only generic emulations and consequently have only been able to support the most basic keyboard and mouse features.

#### Independent simultaneous device selection

Flexibility is key to the ADDERView Pro. The switch enables you to use the KVMA console to work on one computer whilst your USB peripherals are connected to other computers and your speakers are playing music from yet another. You can of course still switch all connected devices to any one of the connected computers as with any other KVM switch.

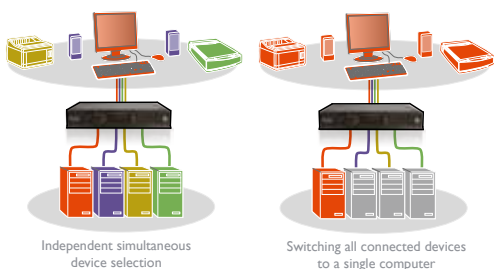
#### Channel selection options

The ADDERView Pro can be switched using selectable keyboard hot keys, 3 button mice or the front panel controls. Optionally, you can also use the RC4 remote switch to make your selection. These switching options allow you to rapidly reassign connected devices to any of the connected computers.

#### Broad USB 2.0 Hi Speed device support

A vast range of USB devices can be connected to the ADDERView Pro from nonstandard human interface devices to printers and scanners. This gives great flexibility. For example, you could be scanning a set of documents onto one computer whilst working on another and printing from yet another, all at the same time. The USB 2.0 switching action has been carefully engineered to ensure maximum computer reliability when connecting and disconnecting USB devices.

Examples of switching flexibility on the AV4PRO-DP. Diagrams show the switching of connected devices across all connected computers and the selection of all connected devices to a single computer.



Adder's revolutionary USB True Emulation technology overcomes this frustrating limitation by emulating the true character of the connected devices to all the computers simultaneously. This means that you can now use the extra function keys, wheels, buttons and controls that are commonly found on modern keyboards and mice.

Users in Architecture, Graphic design, Post production, Animation, etc. often need to use specialised interface devices such as graphics tablets, 3D explorers, joysticks, and so on. The AV4PRO-DP makes all this possible.





Welcome to the world of  
**High Performance KVM**

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