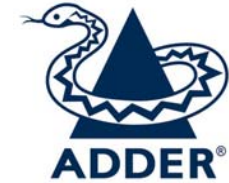




# Introducing the NEW . . AdderLink X2 Extenders

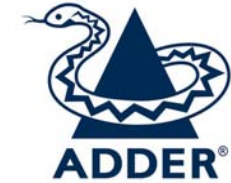




## What's so great about them?

- Much better video performance than the previous X series products (100 times more amplifier gain!) with super fine adjustments and separate brightness control
- Enhanced range to match customer requirements (USB, multimedia, transparent RS232, single dual or quad head, dual access options etc. )
- Many models have integrated 300MHz De-Skew circuitry
- PS/2 models support 300 metres and fantastic 1600 x 1200 video quality at 200 metres
- High fidelity digital 16-bit stereo bi-directional clickless audio supported on some models



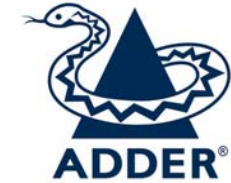


## What's so great about them?(cont.)

- Ideal for both stand-alone or rack-mount applications
- All products feature emulated DDC – essential for modern computer system support
- Improved noise immunity and spike suppression circuits protect the user's investment and ensure more reliable operation in electrically noisy environments
- More cost effective!

Some products are 'backwards compatible' with the older X series products, which means that new receiver units may be used to upgrade older systems

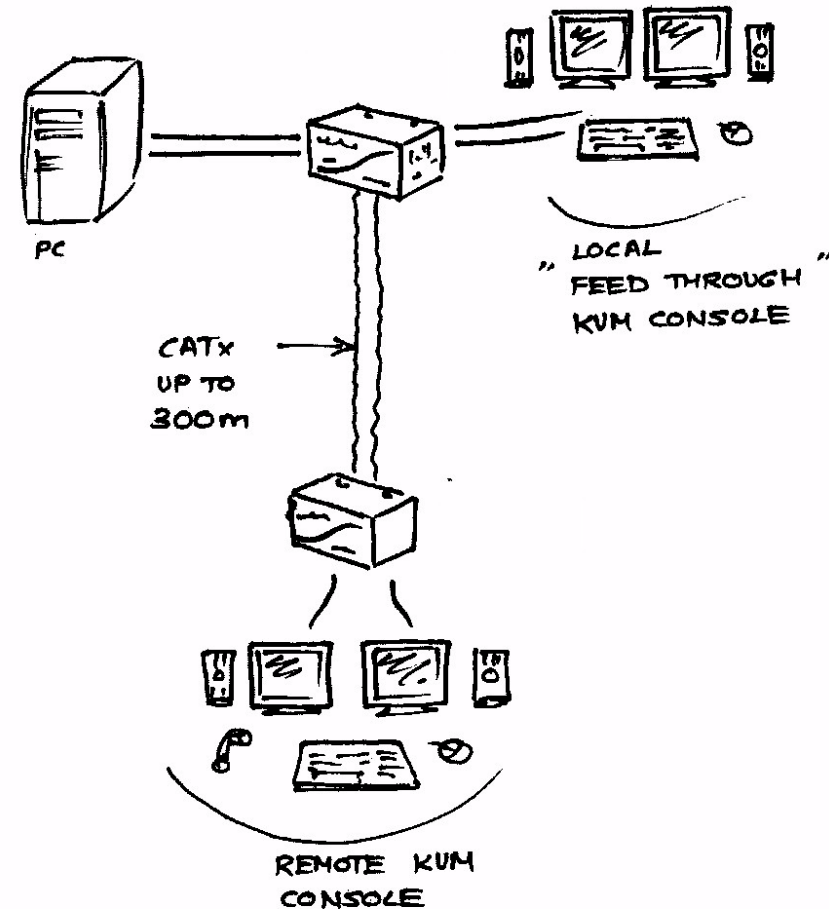




## Focus on:

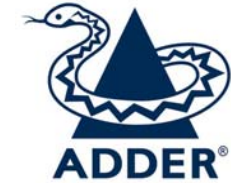
# Dual Access

- Available on the and the Dual / Quad head extenders
- Local 'feed through' port uses standard KVM connections (local audio feed through also provided on units that support audio)



Feed through "speaker" connection

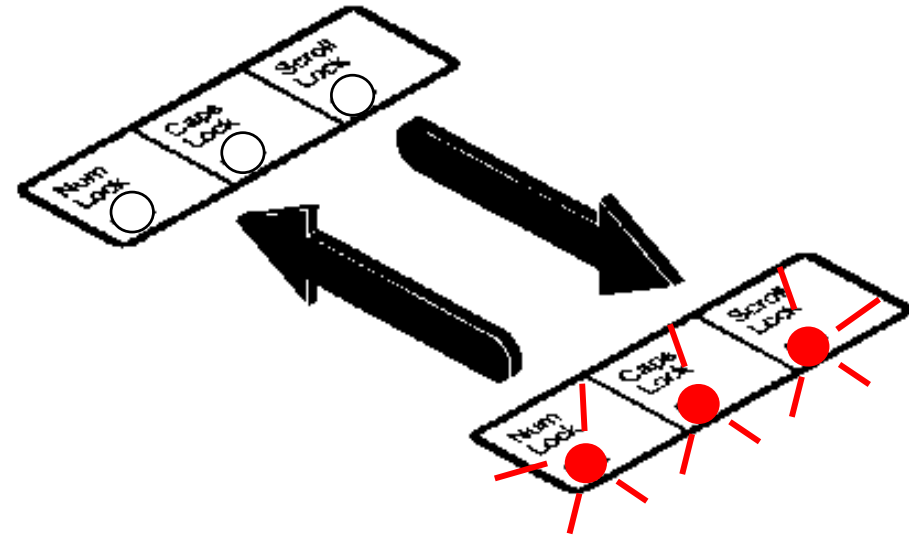


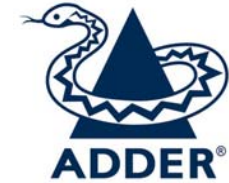


**Focus on:**

## **Dual Access contention**

- LEDs flash on the keyboard of the KVM console (local or remote) that does not have control
- Control may be passed to the other KVM console after a 2 second activity timeout has elapsed





**Focus on:**

## **Video Quality**

- The NEW X2 series products use the latest technology compensation amplifiers to achieve industry leading video quality – true 1600 x 1200 support at 200 metres (1280 x 1024 at 300 metres)
- Smooth keyboard-controlled video compensation enables the user to finely adjust the compensation
- Independent brightness control enables the user to match the intensity to other video signals

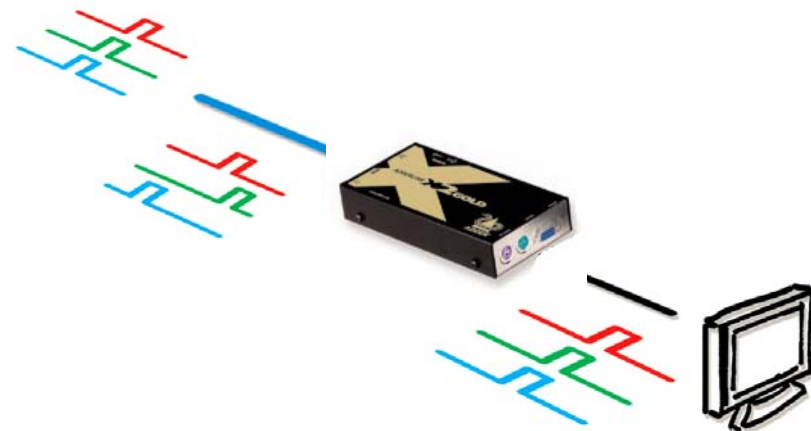




Focus on:

## Integral DeSkew

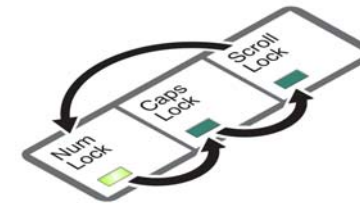
- The X2 series products use amazing new state-of-the-art full bandwidth 300MHz DeSkew circuits (DeSkew fitted to all X2 products).
- Much better than existing DeSkew circuits!
- 62ns DeSkew available which copes with up to 300 metres (experience shows that 20ns is needed for 100 metres)
- 2ns resolution means that the DeSkew can cope with 1600 x 1200 resolutions (approx ¼ of a pixel)
- Don't suffer from picture "fuzz" when DeSkew is applied (older technology DeSkew is only a few tens of Megahertz)



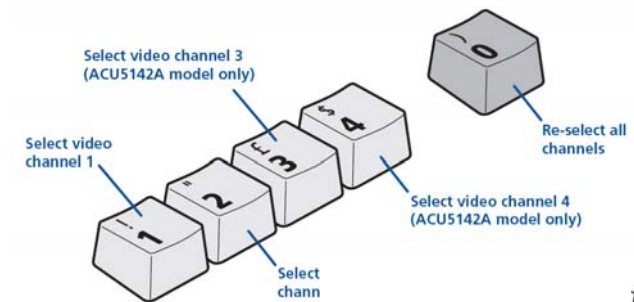


## Video compensation explained

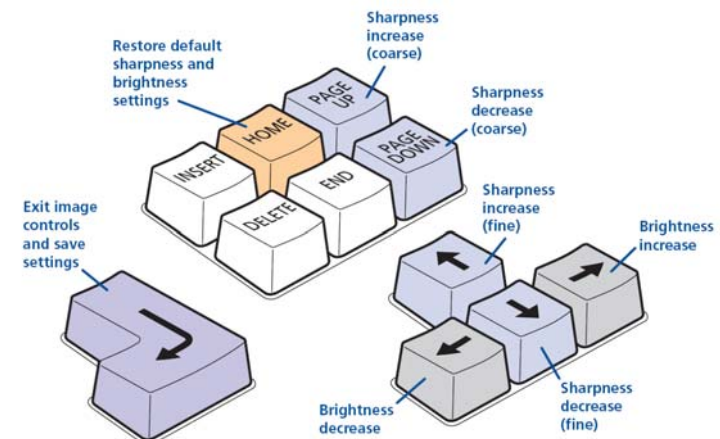
- User enters 'compensation mode' using hotkeys – keyboard LEDs flash to indicate compensation mode

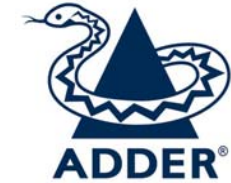


- For multi-head units, user may select a specific video head or apply the settings to all the heads simultaneously



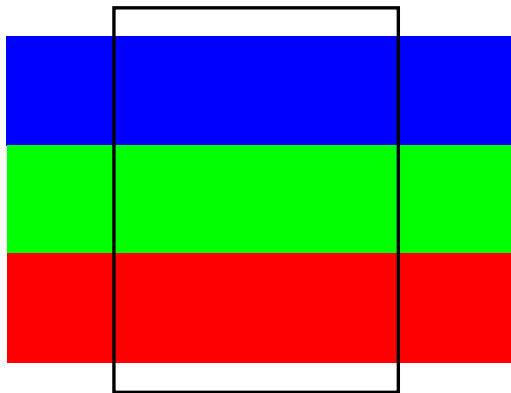
- Up and down arrows used to adjust sharpness, side to side arrows used to adjust brightness, page up and page down for coarse sharpness adjustments and Home to reset settings





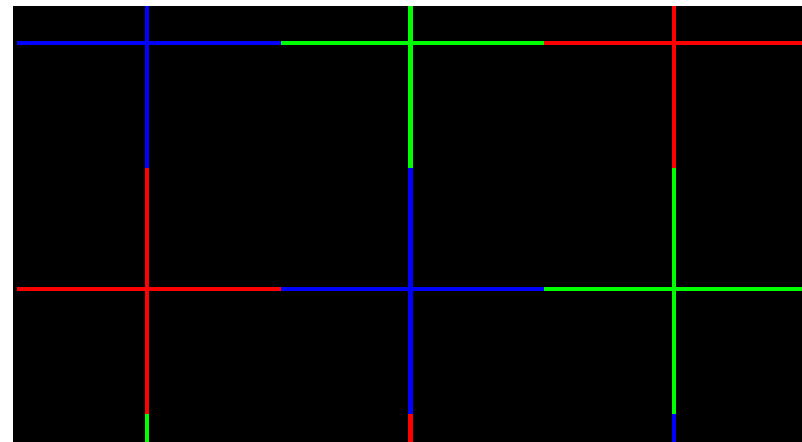
## Skew compensation explained (test pattern)

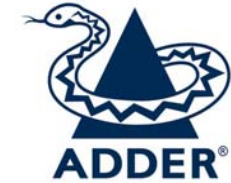
- A test pattern helps to make the skew compensation process easier
- Users can make use of the skew test pattern provided on the CD or can make their own using any common draw package
- To make your own skew pattern, draw red ,green and blue horizontal bands (in primary colours) across the screen and then draw black vertical lines through these



*“Home made” test pattern*

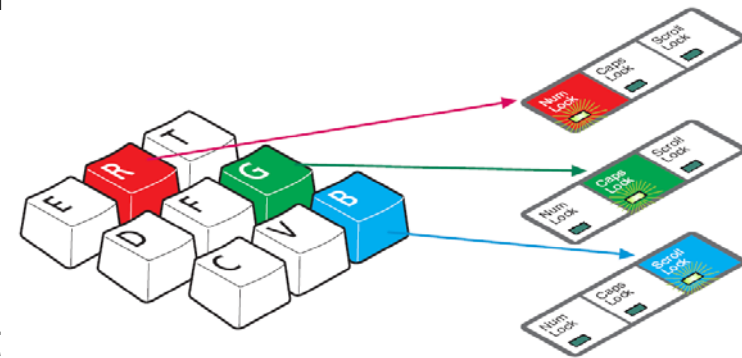
*Supplied test pattern*



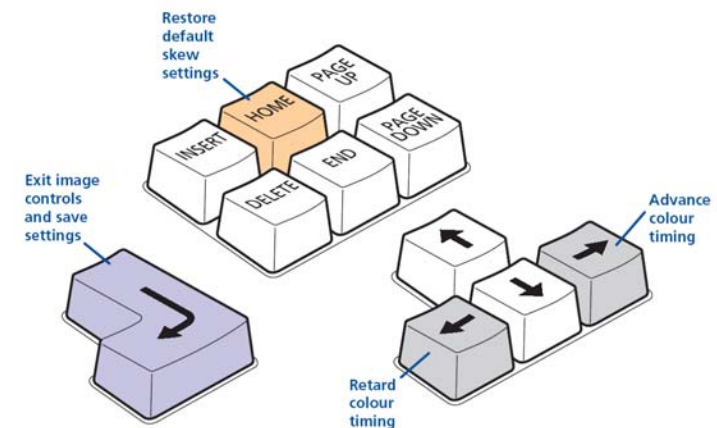


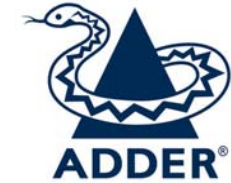
## Skew compensation explained (setting skew)

- In 'compensation mode', user selects [R], [G] or [B]
- selection is confirmed by flashing keyboard lights
- The selected colour is advanced using the right arrow and retarded using the left arrow



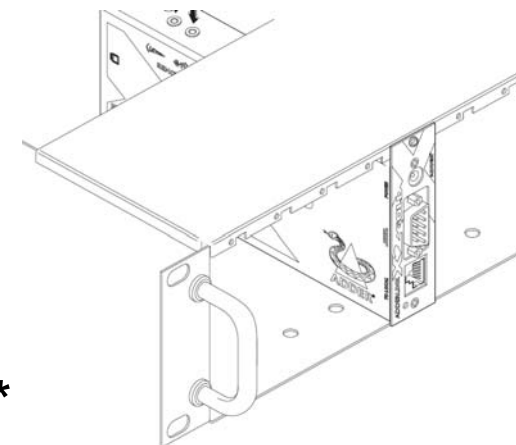
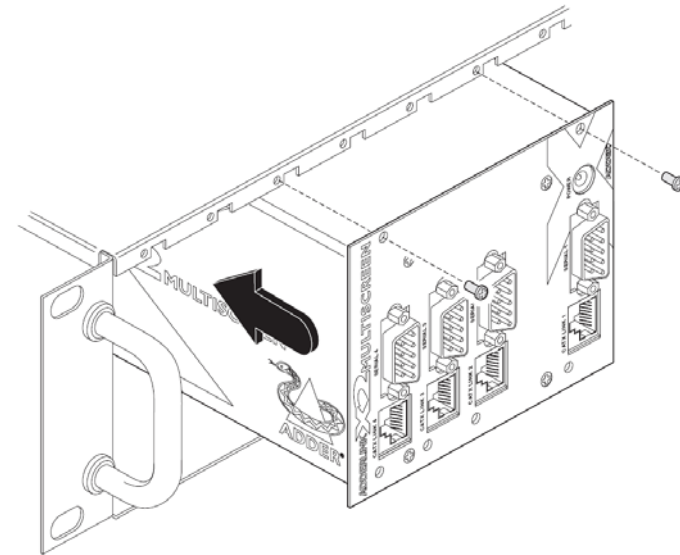
- [Home] selects no skew

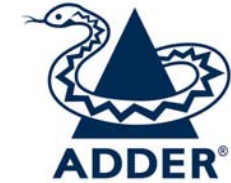




## Rack mount options

- All transmitter and receiver modules may be rack mounted in the X-Chassis at high densities
- Each transmitter / receiver pair contains a rack mount plate that may be used for either the transmitter or receiver\*
- Units are 1,2,3 or 4 slots wide. Rack mount chassis has 16 slots

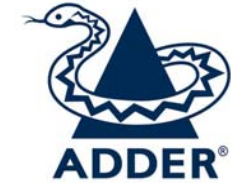




## Advanced spike suppression

- Advanced spike suppression consists of two elements:
  - Gross spike suppression – designed to protect the circuitry against gross voltage spikes (*acts rather like a ‘safety valve’ that operates when the voltage goes over or under set +5V and -5V levels*)
  - Operational spike suppression – Attenuates common mode spikes to ensure more reliable operation in noisy environments (*acts rather like a damper on your car’s suspension*)

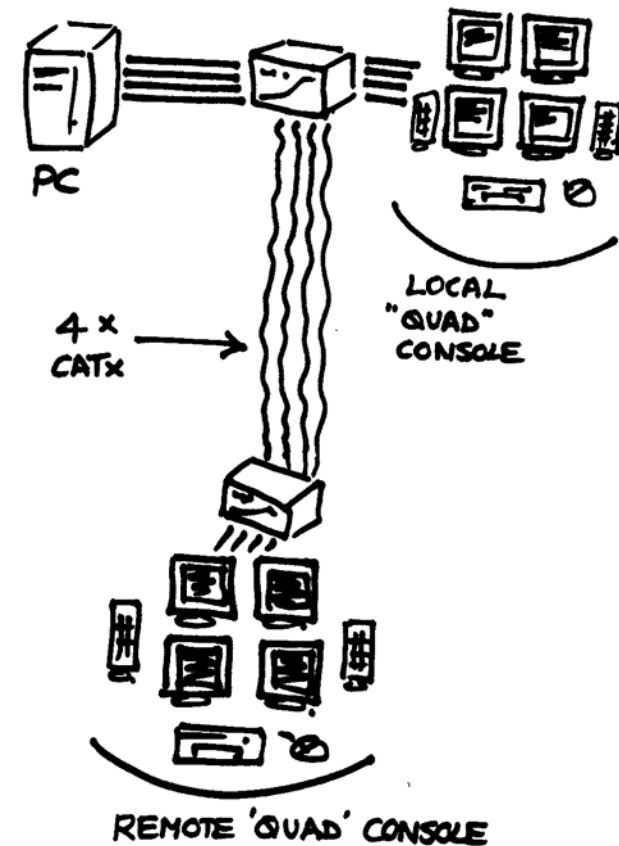




**Focus on:**

## Dual and Quad Head Extenders

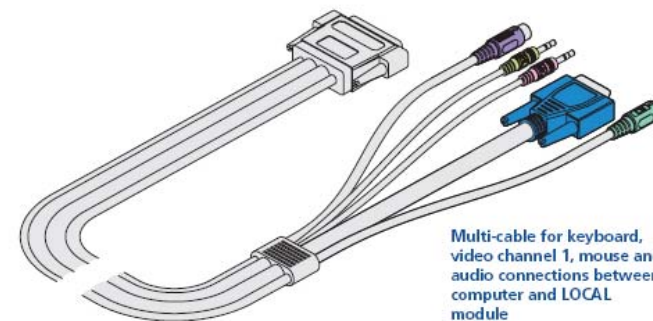
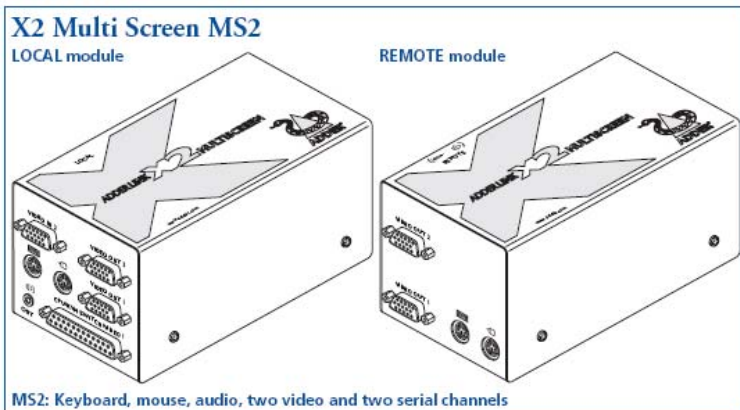
- Extends multi-head video, keyboard, mouse, audio and multiple serial over CATx cables
- All multi head extenders are fitted with multi-head local 'feed through' ports





# Multi-head extenders - What's in the pack?

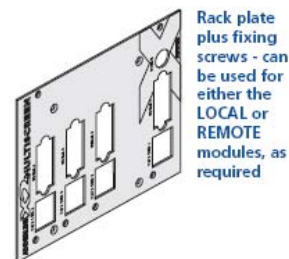
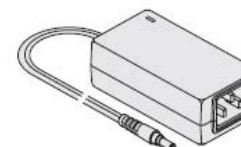
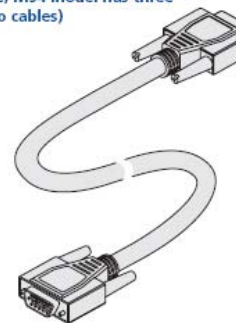
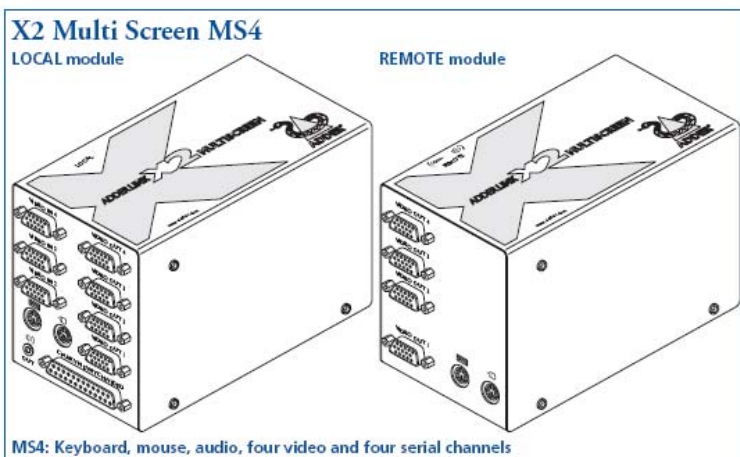
## Supplied items



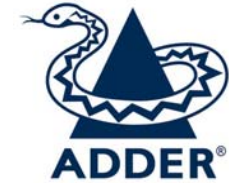
Video cable for channels 2-4 (MS2 model has one video cable, MS4 model has three video cables)

Self adhesive rubber feet

OR



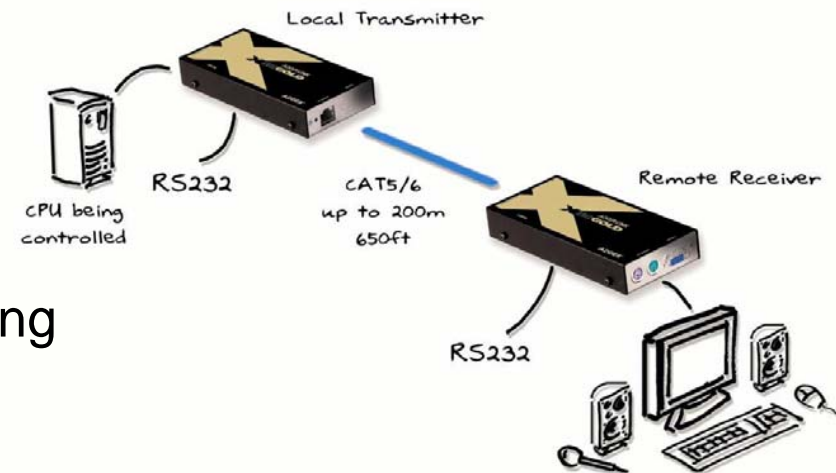
Note: See next page for module features



Focus on:

## Digital audio

- Multimedia products support bi-directional stereo audio
- 16-bit digital audio ensures high quality, low noise audio
- Audio is completely quiet when the computer is not outputting any sound
- Doesn't suffer from the regular spurious "clicks" found on most other products
- due to annoying non-synchronised sampling clocks (unacceptable in many situations)

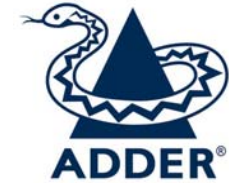




**Focus on:**

## **Serial ports**

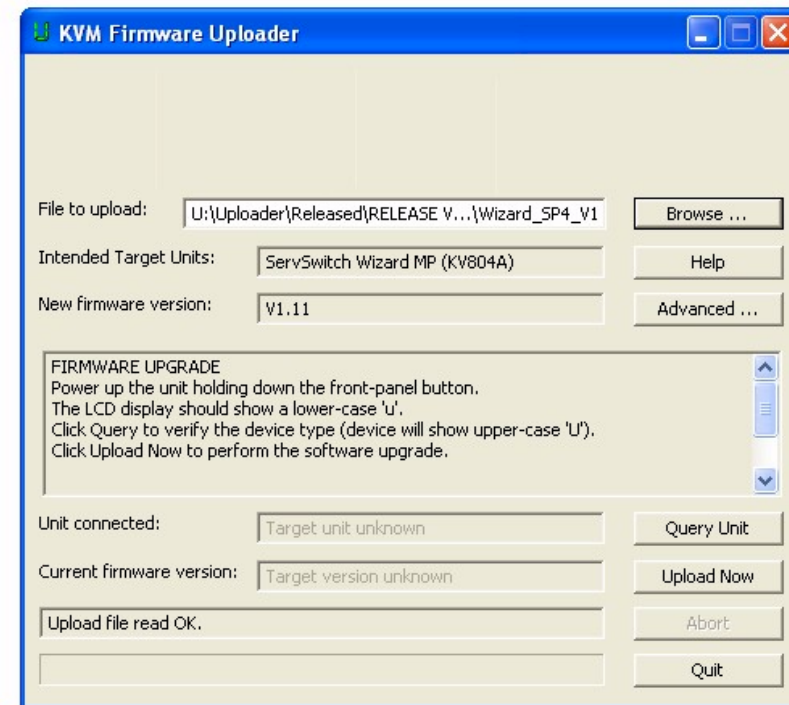
- All serial connections are “transparent”, require no setup and support all handshake lines (i.e. any serial devices may be connected including touch screens that dynamically alter their baud rates)
- Serial baud rates up to 57600 are supported
- Dual head units have 2 transparent serial ports, quad head units have 4 serial ports (i.e. one per video head)
- Serial mouse support re-introduced (by customer request) by adding a 6-pin mini-DIN to 9-pin D adapter onto the end of the mouse cable (essential for banking applications)

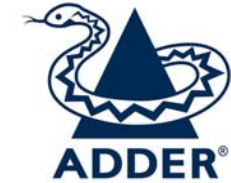


**Focus on:**

## Flash upgrade

- *All PS/2 models are flash upgradeable*
- *DOS and Windows based upgrade programs available*
- *Flash upgrade is done via the PS/2 keyboard port using the Windows-based upgrade software supplied*
- *Windows upgrade software may be driven with the mouse only and reports the current versions. It also provides the user with step-by-step upgrade instructions*

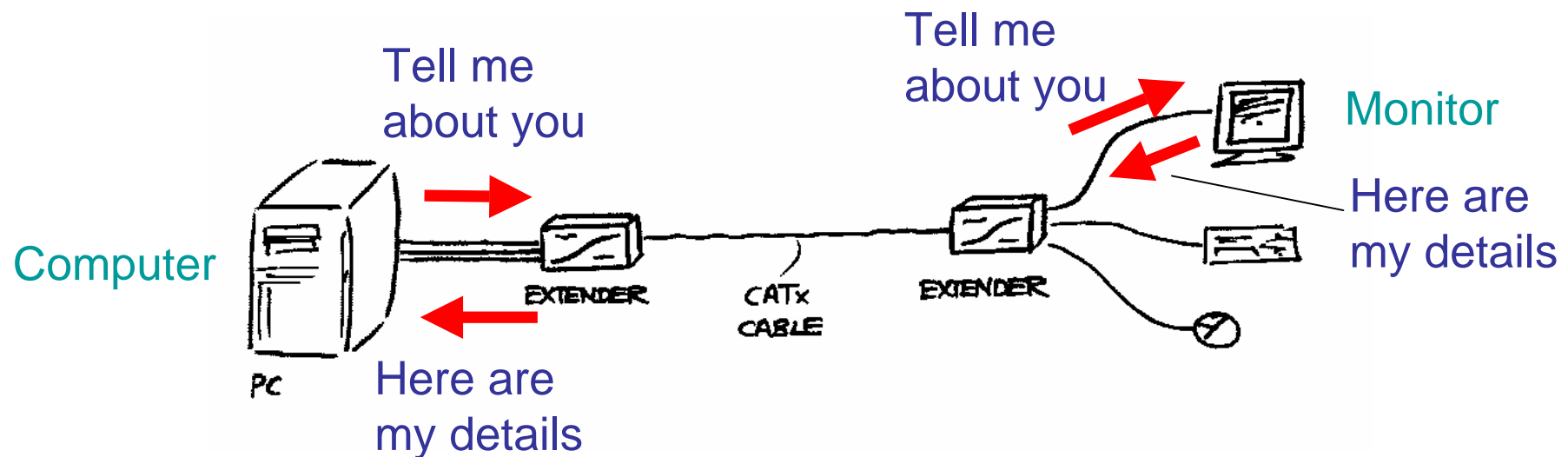




Focus on:

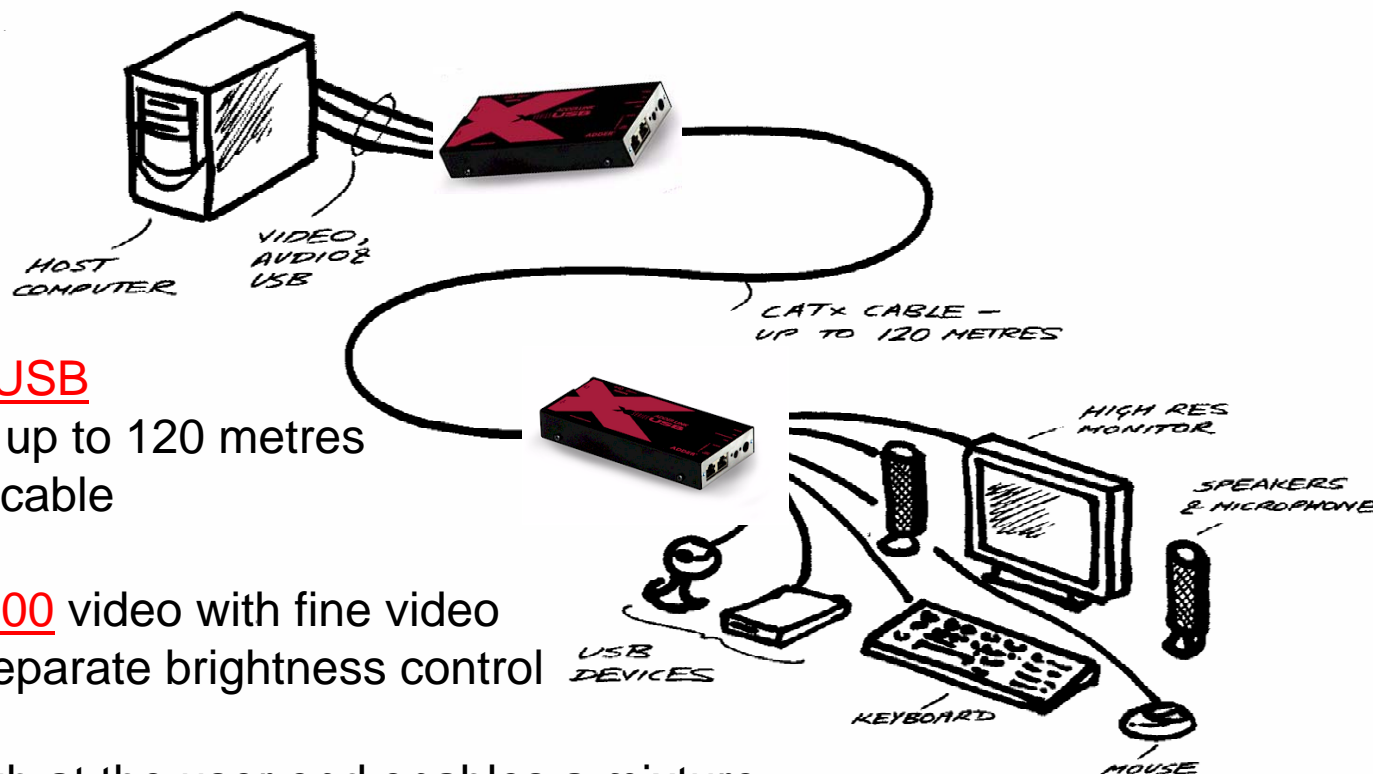
## Emulated DDC

- Each transmitter is fitted with a DDC memory and emulates the Display Data Channel information to the computer
- If no DDC is available, some systems will output restricted video modes (640x480 for some high-end Matrox cards) or no video at all (Sun systems)

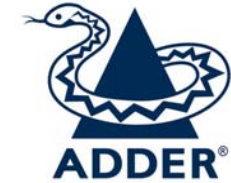




## AdderLink X USB Extender



- Extends full speed USB (USB 1.1) and video up to 120 metres using a single CATx cable
  - Supports 1600 x 1200 video with fine video compensation and separate brightness control
  - Integrated 4-port hub at the user end enables a mixture of devices to be connected (e.g. touch screen, drawing tablet, USB camera, scanner, memory stick etc. )
- Stereo audio and microphone supported via second CATx connection



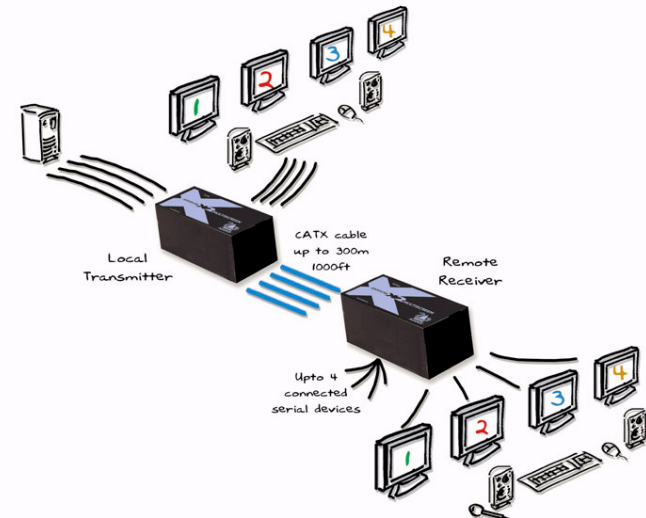
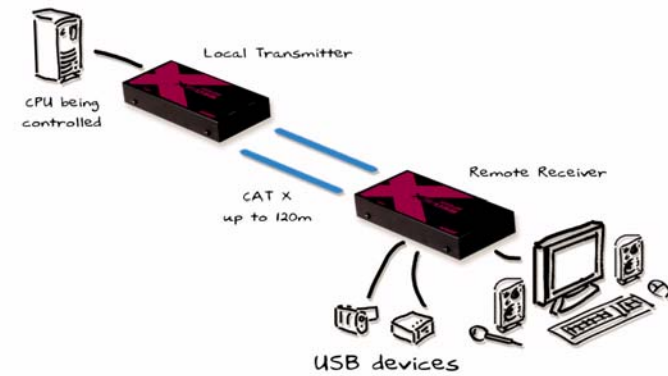
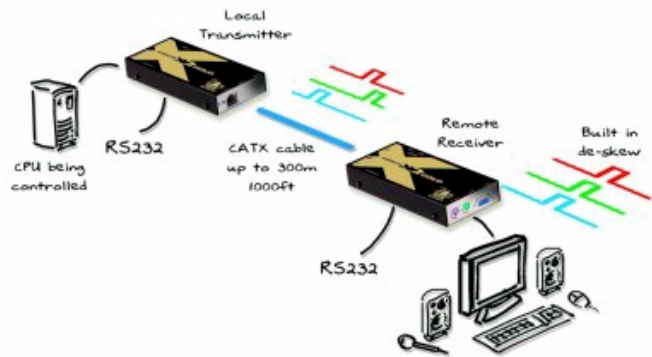
## AdderLink X USB Extender (cont.)

- Ideal for stand-alone use or may be rack-mounted in the ACU5000 series rack (products shipped with rack mounting plates)
- Uses approved Icron™ Extreme USB™ technology
- Video bandwidth adjustment is by an easy to use recessed pot
- Features emulated DDC support for problem free operation
- Computer end is interface powered with optional power adapter connection





# AdderLink X2 Series





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