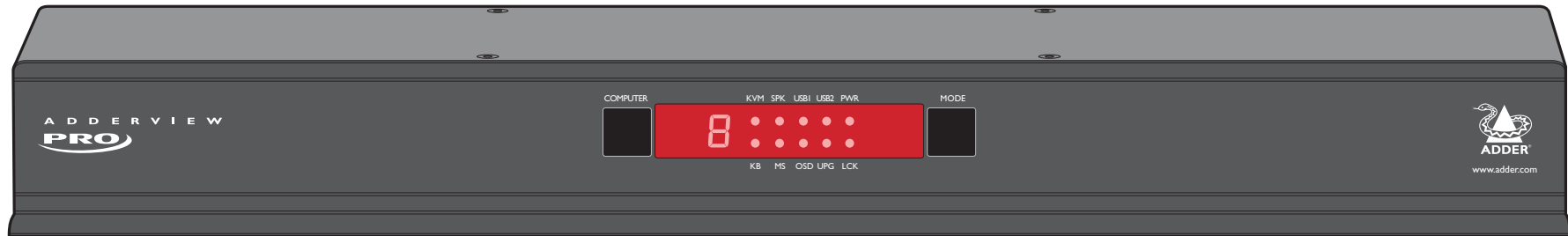




AdderView PRO { AV8PRO-DVI

User Guide



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Introduction



Thank you for choosing a member of the AdderView PRO family of professional switches from Adder Technology. This compact unit allows a single operator to control up to eight computer systems and share peripherals among them in a very flexible manner. The AV8PRO-DVI model benefits greatly from our long history of success in KVM (Keyboard, Video and Mouse) switching. As a result, it can reliably switch multiple signals (including dual link digital video at up to 330Mpixels per second) in a manner that is totally transparent during operation. However, this unit offers more than just straight switching between eight

systems. The KVM, speakers and two separate USB devices attached to the AV8PRO-DVI can be switched in unison between any of the connected systems, as normal. However, you also have the option to mix your peripherals between any of the systems, to suit your current tasks. For instance, you could be creating emails on one system, listening to a soundtrack from another while a third is sending documents to your printer and a fourth performing another task with a different USB peripheral. The on-screen menu or the AV8PRO-DVI front panel make it straightforward to control which peripherals should connect to each system.

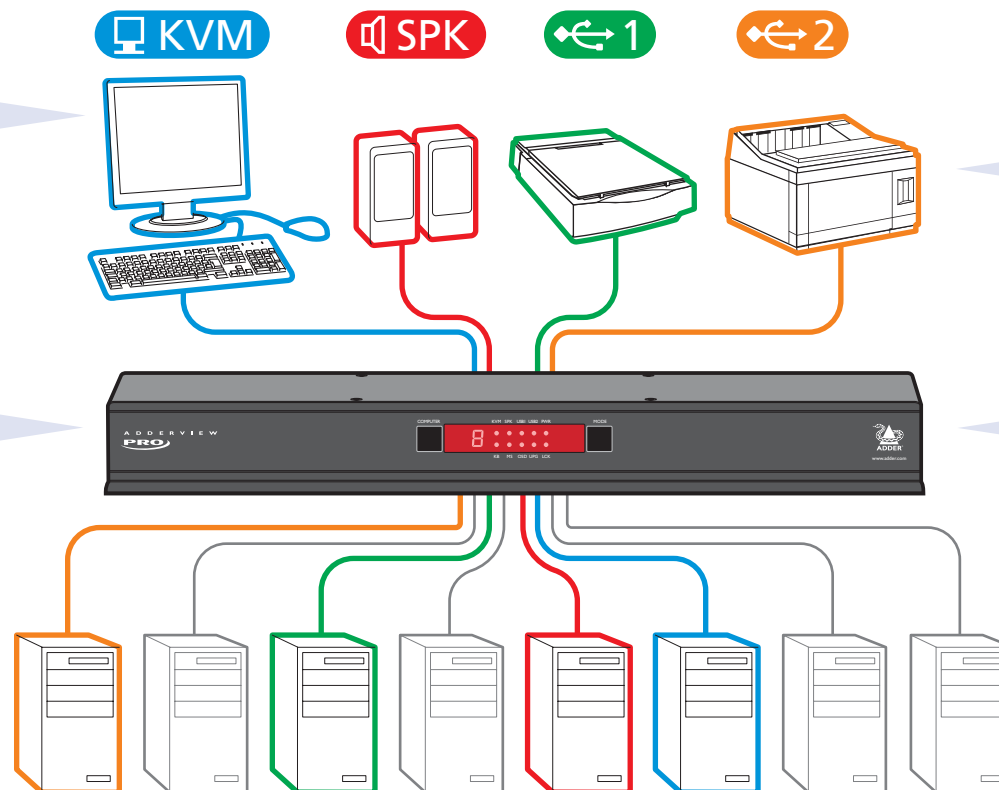
The AV8PRO-DVI also marks the debut of a significant advance in USB keyboard and mouse switching. This is the first product to feature **True Emulation** which ensures that the full characteristics of the connected keyboard and mouse are passed to every system. This supersedes the previous method of presenting default identities to the systems, which did not allow for specialised features present on either the keyboard or mouse. With **True Emulation**, you will find that, subject to the correct drivers being used on each system, the AV8PRO-DVI will faithfully represent the special characteristics of your keyboard and mouse.

USB Remote wakeup

The USB Remote Wakeup feature is fully supported. Any connected computer can go into sleep mode and be awakened (when its channel is selected) as soon as you press a key or move the mouse. The computer and peripherals must support the USB Remote Wakeup feature.

Digital and analogue video

Each of the eight computer channels has a DVI-I video connector which allows either DVI digital or VGA analogue signals to be input. At the console connections, the AdderView Pro 8 uses separate DVI-D and VGA connectors to allow the easy attachment of either type of monitor, or to permit dual connections to auto-switching monitors that can operate with either type of input.



Multiple switching

The attached peripheral devices can be switched collectively to any computer system, or can be linked to separate systems to achieve multiple tasks in parallel. Multiple switching can be controlled from the on-screen menu or using the front panel buttons.

True Emulation

Earlier USB KVM switches relied upon standard keyboard and mouse templates to inform each computer system how to deal with the connected peripherals. The AdderView PRO succeeds in harvesting the true identities of the connected keyboard and mouse and presents those 'real' profiles concurrently to every system. Thus, specialist keyboards and mice can be fully supported.

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What is True Emulation?

True Emulation represents a significant breakthrough in sharing USB devices between two or more computer systems. Until this point, the problem has been how to create a USB switch that provides all of the following:

- Quick, transparent and reliable switching,
- Accurate representation of the connected USB keyboard and mouse,
- Switching control via the connected USB keyboard and/or mouse.

The difficulty in achieving all of the above requirements has been due to the complexity of the USB standard. This has led to various problems that have spawned a number of possible solutions.

Enumerated USB switching

The earliest attempts to switch USB devices applied a relatively 'hands off' approach. Enumerated USB switches are the electronic equivalent of those old mechanical KVM switches with a large knob on the front.

Enumerated switches are so called because a connected USB device will be required to perform a full initiation (a process called *Enumeration*) every time it is switched; just as if you had pulled out the plug and then reconnected it.

Enumerated switches simply pass all signals straight through between the USB device and the computer, they do not attempt to interpret any data. For most devices, this offers an advantage because the switch just leaves them to get on with their jobs without any interference or any hit on performance. However, it means that a USB keyboard or mouse cannot be used to control the switching process - a quick and simple control method expected by most users. Reliability of switching is also an issue that has plagued enumerated switches, especially when used with certain USB devices and particular operating systems.

Emulated USB switching

The issues with interpreting the complex USB data streams and recreating (or *Emulating*) the identity of attached USB devices were eventually solved, leading to the creation of the Emulated USB switch.

A neat side effect of the technique used is that each computer can be fooled into thinking that the USB device is permanently connected to it, even when the device is switched to another computer. This means that the enumeration process for the USB device takes place only once, during the first power on. After that, a computer merely sees a dormant version of the USB device whenever the device is actually connected to a different computer.

However, it remains a complex task to dynamically assume the identity of a USB device, distribute it among the connected computers and maintain all of the necessary signals, states and processes. Therefore, manufacturers have previously relied upon a fixed keyboard and mouse profile that is declared to each computer, regardless of the actual connected devices. This precluded the use of any special keyboard or mouse features over and above the standard layouts.

True Emulation

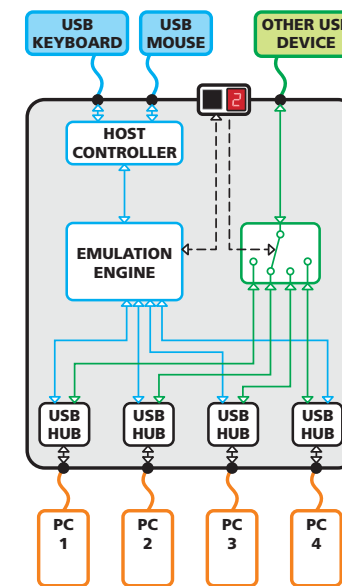
Mindful of the limitations associated with the previous USB switching techniques, we set about creating a more effective and elegant solution. After a great deal of research and development, *True Emulation* is the result.

True Emulation allows the complete identity of the keyboard and mouse to be copied and then presented to all of the connected computers. This means that any keyboard offering specialist function keys or any mouse with extra features will be fully supported at each computer. As with the previous emulation method, the unselected computers will continue to see the identities of the keyboard and mouse, which means that no enumeration is necessary when their link becomes active once again. This not only helps to speed up the rate of reconnection, but also raises the reliability of switching because USB links are at their most vulnerable during the enumeration process.

True Emulation relies upon a high speed circuit, called an Emulation Engine, to fully emulate the USB device identities and also interpret keyboard and mouse data streams. The result is full support for KVM switching control via hotkey presses or the third button/scroll wheel of a mouse.

True Emulation is not necessarily required by other USB devices, which is why you will also find two enumerated circuits included (shown in green within the block diagram) alongside the True Emulation feature (shown in blue). This allows those other USB devices to operate at their highest speeds, without any intervention. The enumerated circuits benefit greatly from the USB Hubs that are jointly used with the True Emulation system. Because they interface directly and permanently with each computer, they help to stabilise the dormant links, making errors during enumeration much less likely.

The dual switching arrangement provides further flexibility because the True Emulation and enumerated sections can be switched in unison or independently of each other, as required. Thus, your various peripherals can operate with different computers at the same time.



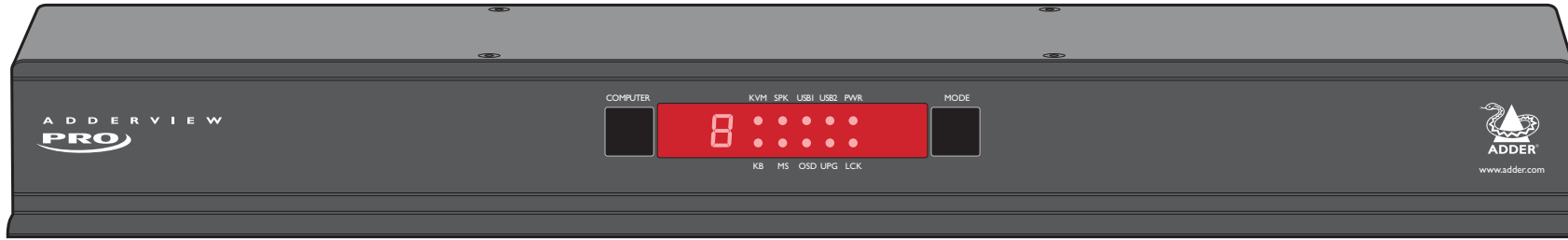
The emulated section of the switch is shown in blue and handles only the keyboard and mouse. The green enumerated section of the switch handles other USB devices and also uses the USB hubs to link with the computers.



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AV8PRO-DVI features - front and rear

The unit packs a great deal of functionality into a compact space. It occupies a single 1U rack space and provides connectors at the rear face. The smart front face features the control buttons and the operation indicators.



COMPUTER button
Press to change to the next computer channel.

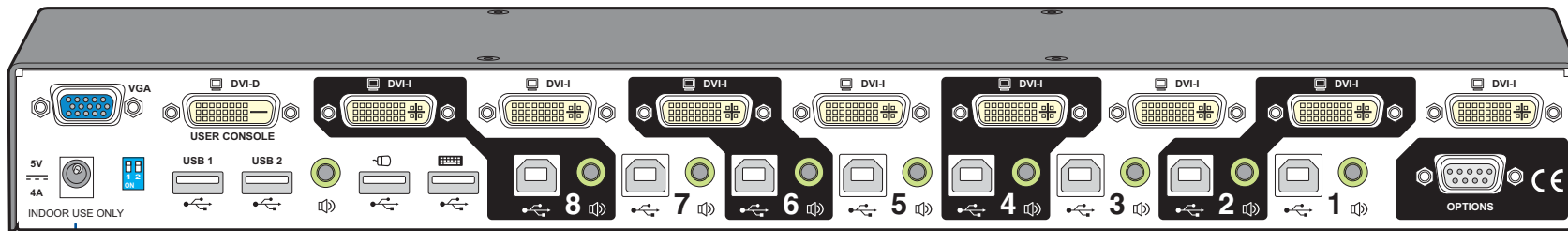
Indicators
Six of the ten indicators show basic input or mode status:

- **KB** Keyboard data are being received from the user console.
- **MS** Mouse data are being received from the user console.
- **OSD** Indicates that the on-screen display is currently active.
- **UPG** Indicates that the unit is currently in upgrade mode.
- **LCK** Indicates that the unit is locked. Enter the password.
- **PWR** Power input indicator.

The remaining four indicators (**KVM, SPK, USB1, USB2**) show which peripherals are switched to the current computer channel OR (as you begin pressing the MODE button) the peripherals that will be switched during the next press(es) of the COMPUTER button.

The seven segment numeric display indicates the computer channel that is currently active.

MODE button
Press to determine which peripherals should be switched to another computer channel (will occur when the COMPUTER button is pressed).



Power input
The power supply connects here.

User console
Connect DVI-D and/or VGA video leads, USB keyboard and mouse, (up to) two other USB devices plus optional speakers to these connectors.

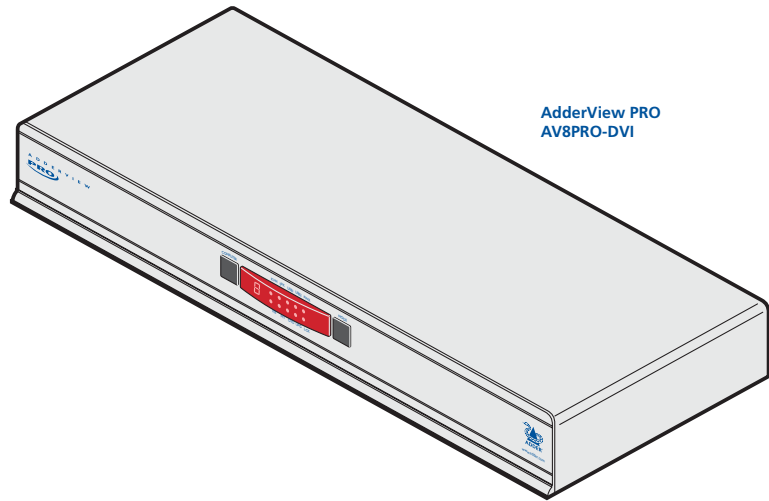
Computer channels
Each computer connects to one of these eight channels via a DVI-I video connector, a USB B-type connector and an audio 3.5mm jack input.

Options port
This RS232 serial port can separately support the following functions:

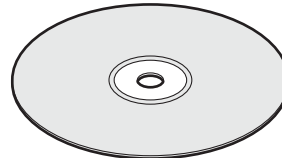
- Synchronisation - allows the actions of two or more AdderView PRO switches to be synchronised so that multiple computers/video screens can be switched and accessed.
- Upgrades - used to update the internal firmware when necessary by connecting to a computer.

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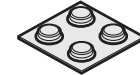
What's in the box



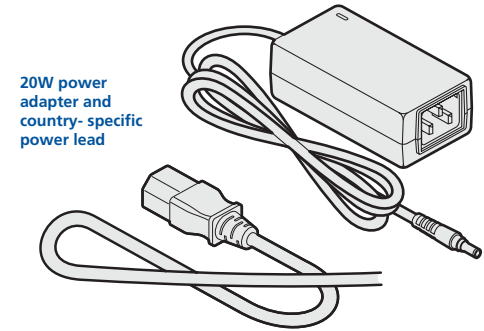
AdderView PRO
AV8PRO-DVI



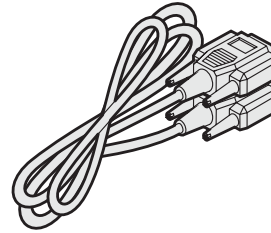
CD-ROM



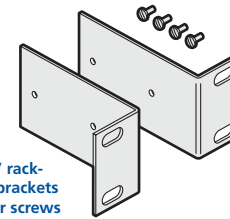
Four self-adhesive
rubber feet



20W power
adapter and
country- specific
power lead

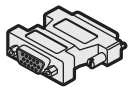


Flash upgrade serial cable
9-way D male to female

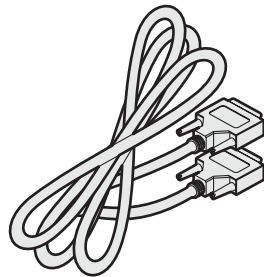


Two 19" rack-
mount brackets
and four screws

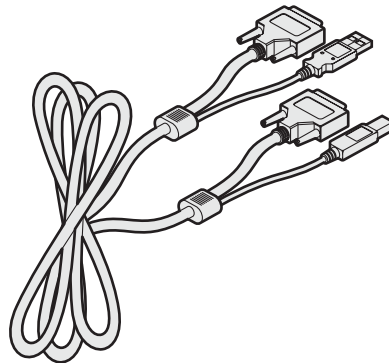
What you may additionally need



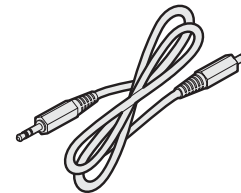
DVI to VGA converter
Part number: VSA11



Single link DVI-D to DVI-D video cable
Part number: VSCD1



Combined dual link DVI-D and USB (USB type A to B) cable
Part numbers: VSCD3 (2m length)
VSCD4 (5m length)



Audio cable 2m (3.5mm stereo jacks)
Part number: VSC22

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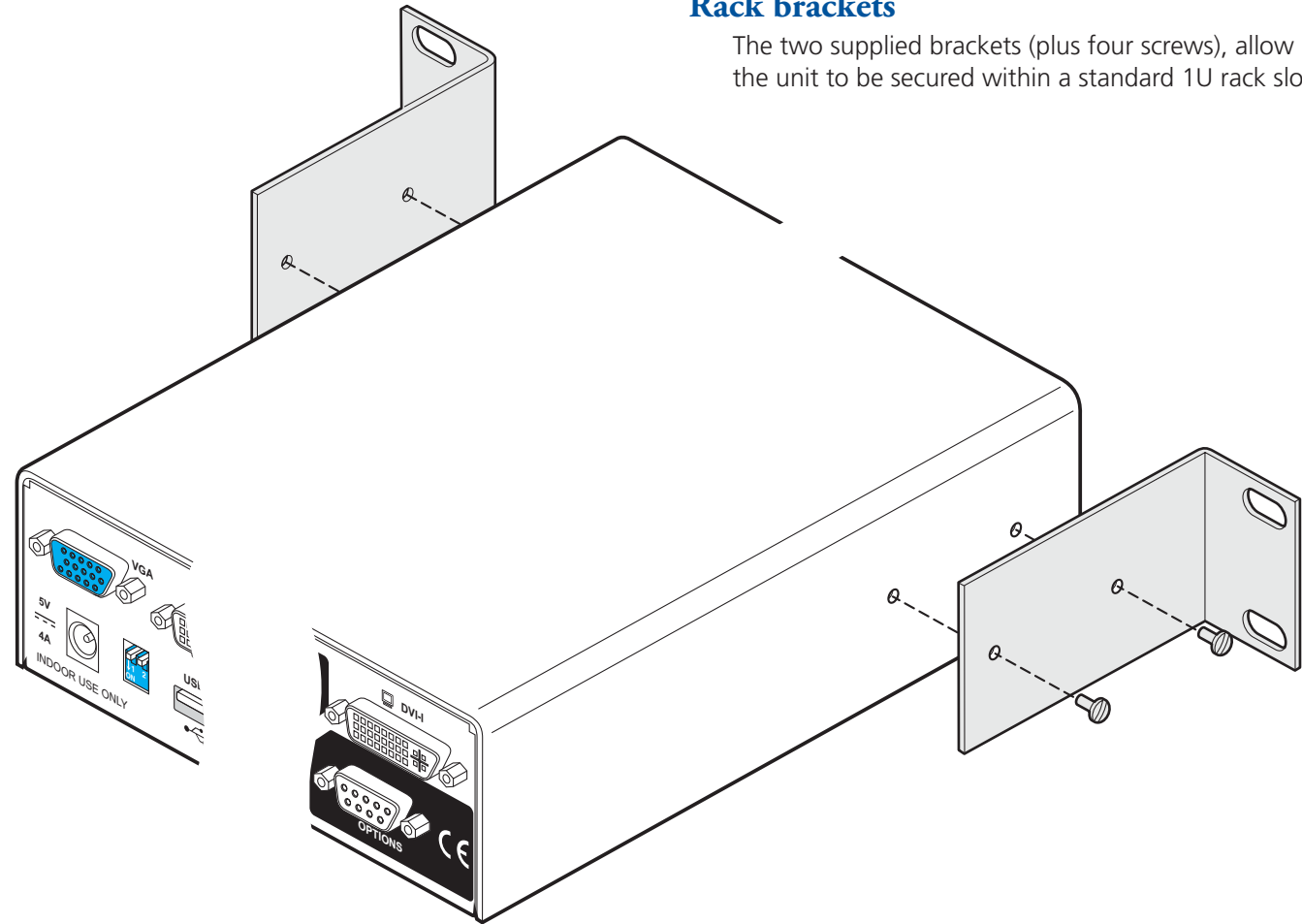
Mounting

The AdderView PRO unit offers two main mounting methods:

- The supplied four self-adhesive rubber feet
- The supplied rack brackets

Connections

Note: Both the AdderView PRO and its power supply generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not place the products in contact with equipment whose surface temperature exceeds 40 degrees Centigrade.



Rack brackets

The two supplied brackets (plus four screws), allow the unit to be secured within a standard 1U rack slot.

Connections

Connections do not need to be carried out in the order given within this guide, however, where possible connect the *power in* as a final step.

User console

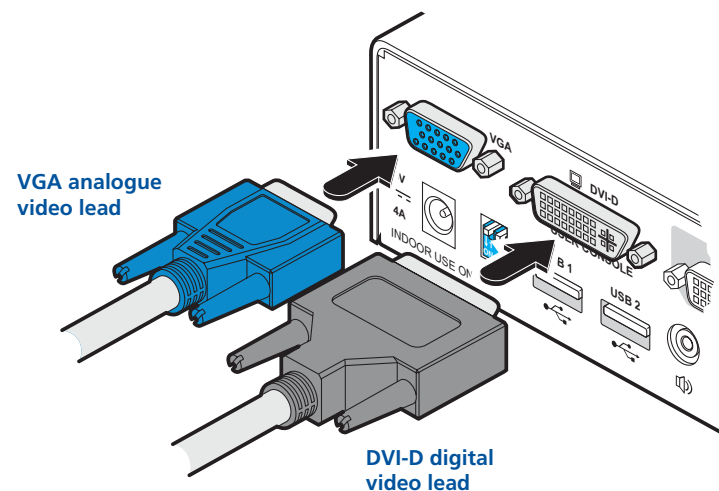
The ports that make up the user console are where you attach the peripherals that will be shared between the computer systems. Ensure that power is disconnected from the AdderView PRO unit.

To connect peripherals to the user console

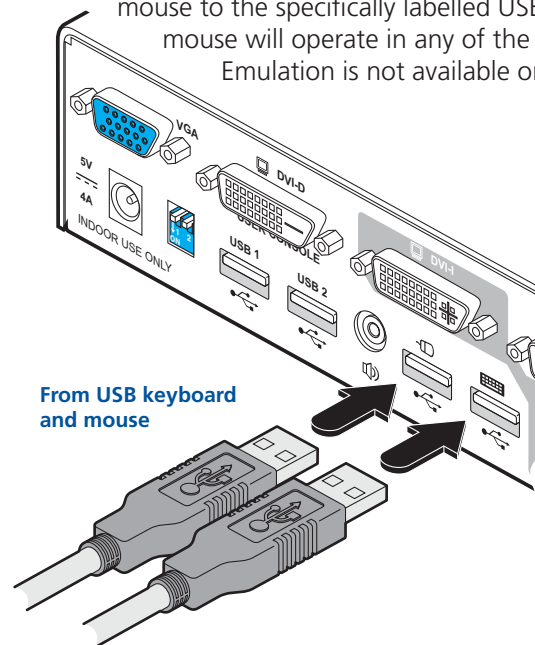
- 1 Position your peripheral devices in the vicinity of the AdderView PRO unit such that their cables will easily reach.
- 2 **Video monitor:** The AdderView PRO supports both DVI digital and VGA analogue video signals. Separate DVI and VGA ports are provided for the user console connection and you can use either, or both, as required. Where a computer provides analogue video, this will be routed through the VGA port; when digital video is supplied, this will appear at the DVI-D port.

Note: The AdderView PRO does not perform any conversions between digital and analogue video signals. If a connected system provides only analogue video, then no signal will be seen on the digital DVI-D output port, and vice versa.

Attach the lead(s) from the video monitor to the appropriate port connector. If your video monitor has dual capabilities then you can link it to both connectors using appropriate leads.

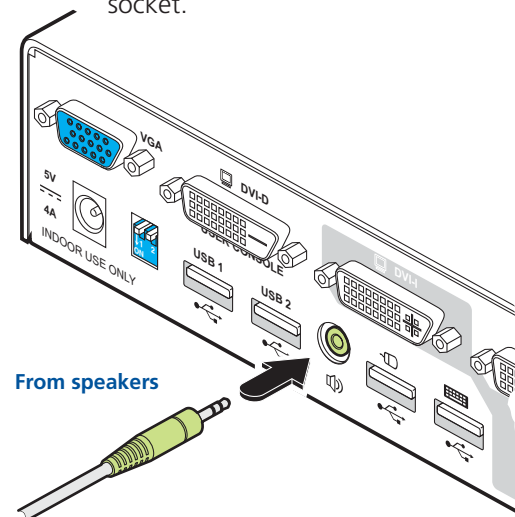


- 3 **Keyboard and mouse:** Attach the leads from your USB keyboard and mouse to the specifically labelled USB sockets. The keyboard and mouse will operate in any of the USB sockets, however, True Emulation is not available on sockets labelled USB1 or USB2.



Note: The unit's True Emulation feature will read the full characteristics of the keyboard and mouse and will present those to each connected computer concurrently. This ensures that specialist keyboards and mice are fully supported.

- 4 **Audio:** Where required, connect the lead from your speakers to the audio socket.



INSTALLATION

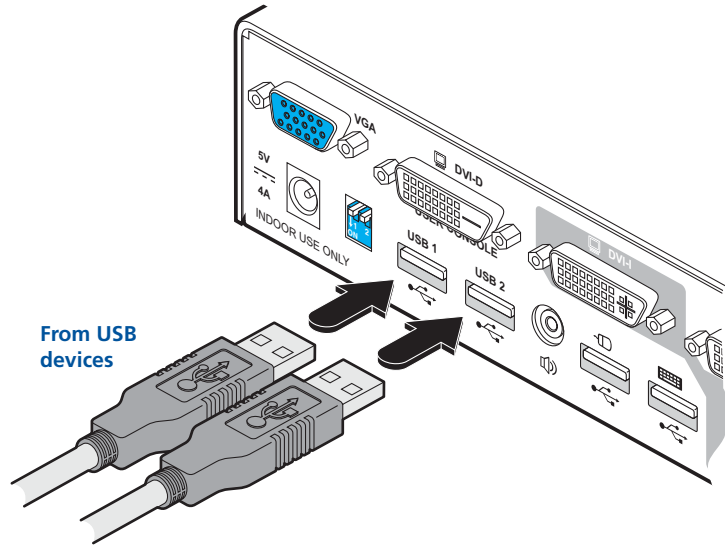
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- 5 **USB devices:** Where required, attach the leads from your USB peripherals to the USB sockets labelled USB1 and USB2.



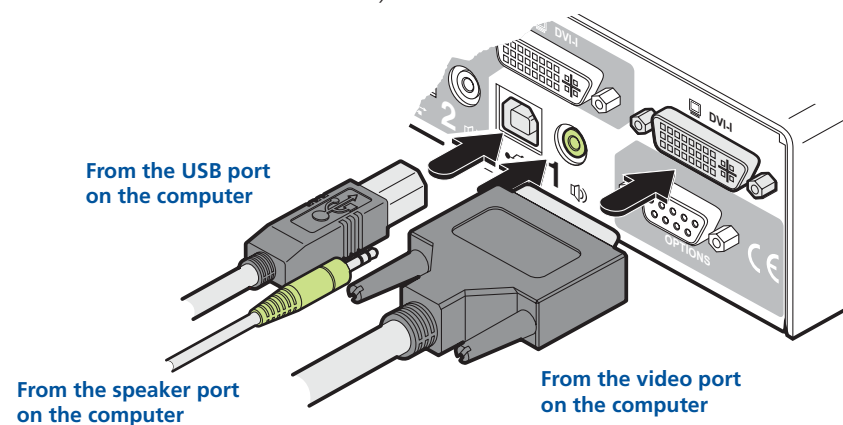
Computer systems

Each computer system is connected to the AdderView PRO unit using up to three cables.

To connect a computer system

- 1 Ensure that power is disconnected from the AdderView PRO unit and the system to be connected.
- 2 Use a DVI cable or a VGA to DVI-I conversion cable (if using analogue signals) to link the video output of the computer's graphic port to the DVI-I port of the required channel on the rear of the unit.

Note: A combined DVI-I and USB (type A to B) cable is also available for linking computers to the AdderView PRO (Part numbers: VSCD3 for a 2m cable and VSCD4 for a 5m cable).



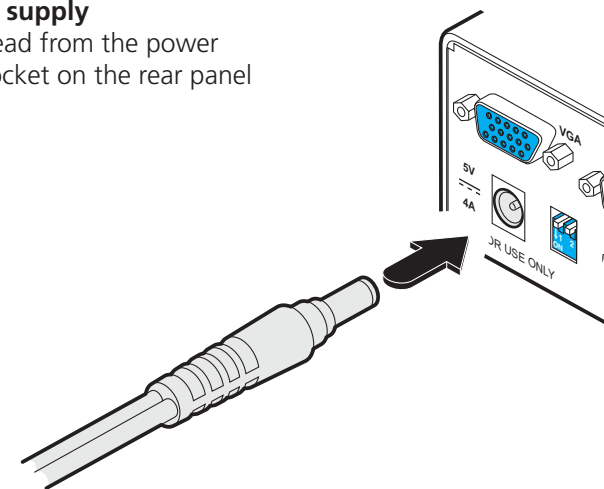
- 3 Use a USB cable (type-A to type-B) to link a USB port on the computer system to the USB port of the required channel on the rear of the unit.
- 4 If required, use a stereo audio link cable (3.5mm jacks at either end) to link the speaker port on the computer system to the audio port of the required channel on the rear of the unit.

Power in connection

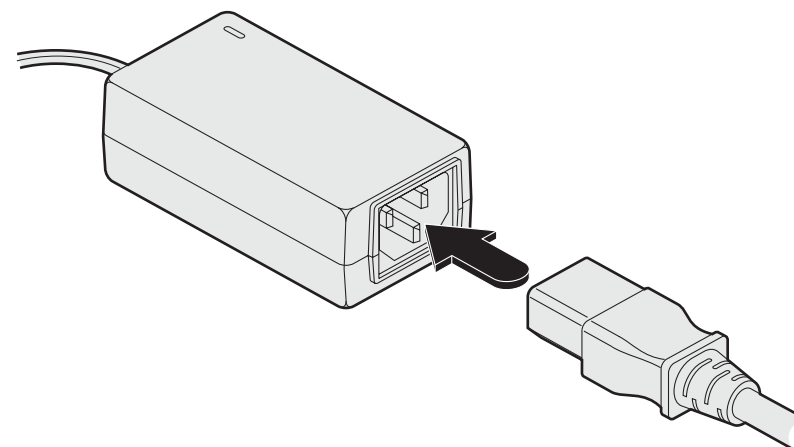
The AdderView PRO unit is supplied with a standard 20W power adapter. There is no on/off switch on the unit, so operation begins as soon as a power adapter is connected.

To connect the power supply

- 1 Attach the output lead from the power adapter to the 5V socket on the rear panel of the unit.



- 2 Connect the IEC connector of the supplied country-specific power lead to the socket of the power adapter.



- 3 Connect the power lead to a nearby main supply socket.

Note: Both the unit and its power supply generate heat when in operation and will become warm to the touch. Do not enclose them or place them in locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not place the products in contact with equipment whose surface temperature exceeds 40 degrees Centigrade.

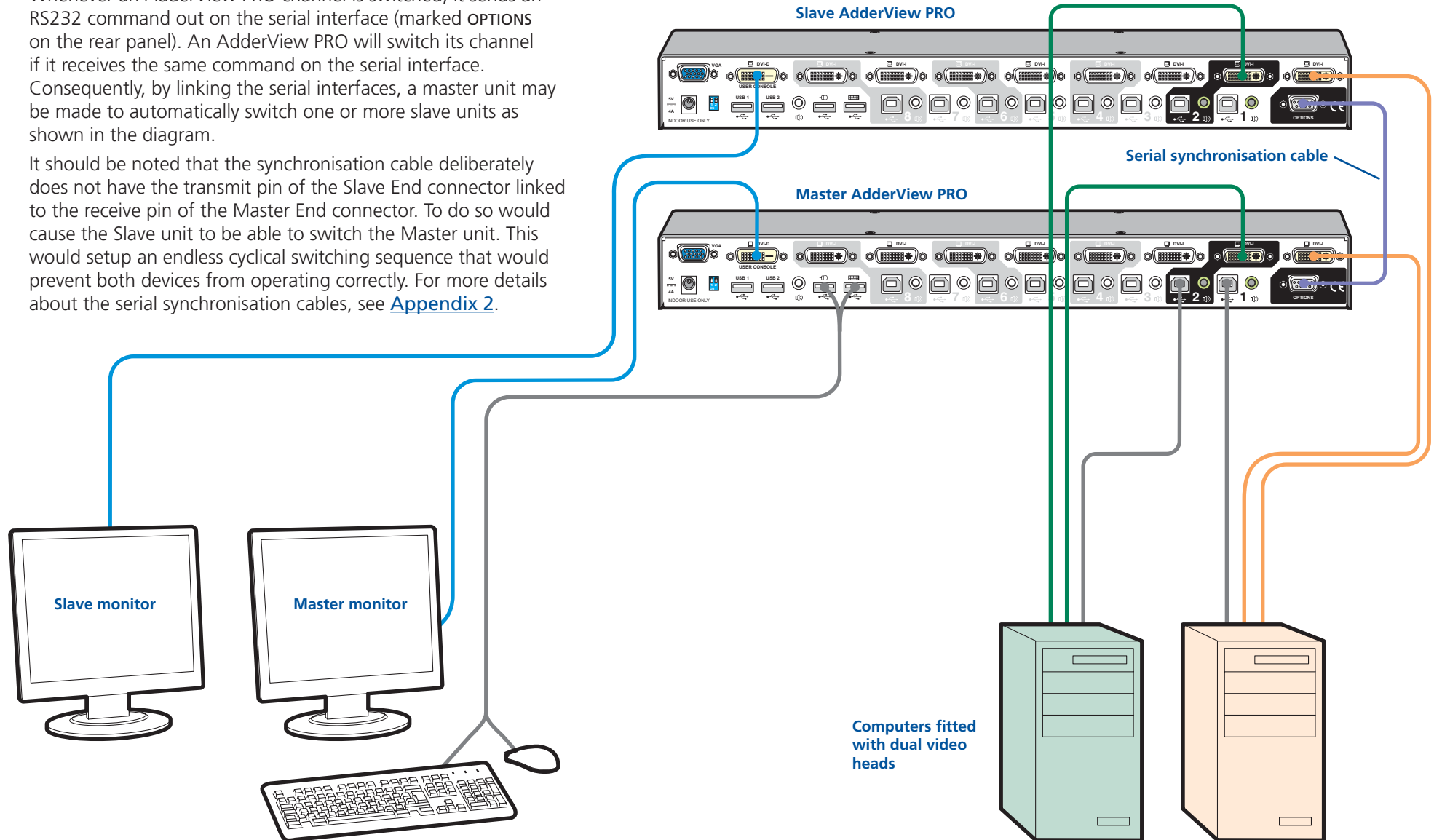


Multiple video head connections

As standard the AdderView PRO allows you to switch dual monitors: one digital and one analogue. However, in cases where two digital monitors are required, you can operate two AdderView PRO units in a synchronised manner. This type of operation is usually required where each computer is fitted with multiple video cards or video cards with multiple video heads.

Whenever an AdderView PRO channel is switched, it sends an RS232 command out on the serial interface (marked **OPTIONS** on the rear panel). An AdderView PRO will switch its channel if it receives the same command on the serial interface. Consequently, by linking the serial interfaces, a master unit may be made to automatically switch one or more slave units as shown in the diagram.

It should be noted that the synchronisation cable deliberately does not have the transmit pin of the Slave End connector linked to the receive pin of the Master End connector. To do so would cause the Slave unit to be able to switch the Master unit. This would setup an endless cyclical switching sequence that would prevent both devices from operating correctly. For more details about the serial synchronisation cables, see [Appendix 2](#).



Configuration

Configuration menus

The configuration menus allow you to determine numerous aspects of the AdderView PRO capabilities.

To access the configuration menu

- 1 If the main menu is not already displayed, press and hold **Ctrl** **Alt** and then press **M** using a keyboard attached to the keyboard USB port of the AdderView PRO user console.

The selection menu will be displayed:

- 2 Press **F1** To display the Configuration Menu:

- 3 Use the **↓** and **↑** keys to highlight an option, then press **↓** to select.

Hotkeys

Note: **Ctrl** and **Alt** are the standard hotkeys and can be **altered** to avoid clashes with other devices or software. If you change the hotkeys, remember to use the new ones in place of **Ctrl** and **Alt** when following the instructions in this guide.

Note: You can also display the main menu by pressing the **COMPUTER** button for five seconds.

Configuration menus layout

The menu options are arranged as shown here:

For a description of each option within the Configuration menus, see [Appendix 1](#) for more details.

General configuration

Changing hotkeys

AdderView PRO units use **Ctrl** and **Alt** as their standard hotkeys. These can be changed if they clash with other software or hardware within the installation.

To change the hotkeys

- 1 Display the [Configuration menu](#).
- 2 Highlight 'Setup Options' and press **↓**.
- 3 Highlight 'Hotkeys' and press **Space** to select the required hotkey combination. The options are: *CRTL+ALT, CTRL+SHIFT, ALT+SHIFT, ALT GR, LEFT ALT+RIGHT ALT, LEFT CTRL+LEFT ALT or RIGHT CTRL+RIGHT ALT.*
- 4 Press **Esc** to return to the 'Configuration Menu'.

Choosing a default channel

You can determine what the unit should do when it is first powered on, either switch to a particular channel or display the on-screen menu.

To choose a default channel

- 1 Display the [Configuration menu](#).
- 2 Highlight 'Setup Options' and press **↓**.
- 3 Highlight 'Default Channel' and press **Space** to select either the required channel number (1 to 8) or 'OSD' if you would prefer the on-screen menu to be displayed.
- 4 Press **Esc** to return to the 'Configuration Menu'.

Enabling security

You can set a password which will enable you to lock access to the connected computers and AdderView PRO menus.

To set a password

- 1 Display the [Configuration menu](#).
- 2 Highlight 'Setup Options' and press **↓**.
- 3 Highlight 'Security' and press **Space**.
- 4 Enter a new password. The password is not case sensitive and can be any combination of key strokes, including the function keys, but excluding the Num Lock, Caps Lock, Scroll Lock and **↓** keys. If your keyboard has special media keys, these also cannot be used as part of the password.
When you have typed in your password, press **↓** to store it. Don't worry if you type the password incorrectly, you can always re-enter configure mode and set the password again.
- 5 Re-enter your new password to confirm. If the passwords match, then the security function will be enabled.
- 6 Press **Esc** to return to the 'Configuration Menu'.

To lock the unit

There are two ways to lock the unit. When locked, using either of the methods below, the LCK indicator on the front panel will illuminate and the screen will show a prompt for you to enter the valid password.

- While viewing any computer, press and hold the hot keys (usually **Ctrl** and **Alt**) and then press **L**.
- While viewing the main selection menu, press **F4** to lock.

To unlock the unit

- When prompted, enter the correct password and press **↓**.

If you forget the password

To clear an existing password: Connect the OPTIONS port of the unit to the serial port of a computer and transmit the text **clrpwd** to the AdderView PRO unit.



Editing the computer list

To create/edit computer entries

- 1 Display the [Configuration menu](#).
- 2 Highlight 'Edit Computer List' and press . The 'Edit Computer List' menu will be displayed.

| ADDERVIEW PRO | | |
|--------------------|------------|---|
| Edit Computer List | | |
| Computer 01 | 01 | x |
| Computer 02 | 02 | x |
| Computer 03 | 03 | x |
| Computer 04 | 04 | x |
| Computer 05 | 05 | x |
| Computer 06 | 06 | x |
| Computer 07 | 07 | x |
| Computer 08 | 08 | x |
| Ins-Add | Del-Delete | |
| Enter-Edit | X-Autoscan | |
| ↑↓-Select | F3-Find | |
| Esc-Quit | | |

When an entry is marked with a 'x', the corresponding computer will be included within an autoscanning operation when 'SCAN LIST' is chosen as the autoscanner mode. See [Autoscanning](#) for more details.

- 3 Either:
 - *Create a new computer entry* – Press and enter a new name, or
 - *Edit an existing computer entry* – Highlight a computer name and press . Press (Backspace) to delete existing characters and enter the required new name (up to 16 characters).

Note: Avoid creating two names for the same computer channel.

- 4 Press and the cursor will move to the computer channel column. Change or enter the channel address of the computer as required.
- 5 Optional: While the entry is highlighted, press to add/remove the 'x' marker at the right side - this will determine whether or not the corresponding computer will be included autoscanning scan list - see [Autoscanning](#) for more details.
- 6 When the channel address is complete, press .
- 7 When all settings have been made, press to save and exit. Press to return to the 'Configuration Menu'.

The reminder banner

As many computer screen layouts can appear very similar, the AdderView PRO provides a reminder banner option that indicates which computer channel you are currently viewing. The banner is displayed at the top of the screen for an adjustable interval between one and five seconds (it can also be disabled or limited to only show when you exit the on-screen menu). You can:

| | |
|-------------|--------|
| Computer | Port |
| Computer 01 | 01 12 |

- Change the overall colour scheme,
- Change the dwell time for the banner, or
- Determine when the banner is shown.

To change banner colours

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'Global Preferences' option and press to select.
- 3 Highlight the 'OSD Colour' option and press repeatedly until the desired colour combination is displayed.
- 4 Press to save the settings. Press twice more to return to the computer channel and view your changes.

To change dwell time for the banner

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'OSD Dwell Time' option and press repeatedly until the required time is shown is displayed (between 1 and 5 seconds).
- 3 Press to save the settings. Press twice more to return to the computer channel and view your changes.

To determine when the banner is shown

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'Global Preferences' option and press to select.
- 3 Highlight the 'Reminder Banner' option and press until the required settings is displayed:
 - 'ALWAYS' will show the banner after every channel change,
 - 'AFTER OSD' will show the banner only when you exit from the on-screen menu.
 - 'NEVER' will disable the banner
- 4 Press to save the settings. Press twice more to return to the computer channel and view your changes.

Please see [Appendix 1](#) for more configuration details.



Autoscanning

When enabled, the autoscan mode switches between the connected computers in sequence. This is useful to allow you to sample activity among the connected computers.

Three scanning modes are available:

- **SCAN LIST** – Only computers declared within an autoscan list will be viewed.
- **ACTIVE PCs** – Only computer ports where an active computer is detected will be viewed. This mode avoids blank screens from being displayed and helps to prevent the viewing monitor from entering a power-down state on every scan cycle.

Additionally, when this mode is selected, whenever you use either the mouse buttons or hot keys + tab to change channels, only computers that are active will be visited. No other preparation is required to achieve this, apart from setting the 'Autoscan Mode' to 'ACTIVE PCs'.

- **ALL PCs** – This mode visits, in turn, to each connected computer. This mode should be used with care due to the reasons given in the warning below.




To start autoscanning mode, press    on the keyboard.

WARNING: Many monitors are fitted with automatic power saving relays that switch off after a few seconds when connected to an inactive computer. If you are using such a monitor, do not use the 'ALL PCs' mode. Continual switching on and off of the monitor's relay will eventually damage the monitor. If using such a monitor in conjunction with the 'Scan List' option, ensure that all selected computers are active.

There are up to three steps that need to be configured to use autoscanning:




- **Select the autoscan mode:** SCAN LIST, ACTIVE PCs or ALL PCs.
- **Select the autoscan period.** This is the time that is spent viewing each computer. This step also enables and disables the autoscan feature.
- **Define the autoscan list.** This step is only required when the Scan List option is selected and allows you to select which computers will be scanned.

To select an autoscan mode

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'Global Preferences' option and press  to select.
- 3 Highlight the 'Autoscan Mode' option and press  repeatedly until the desired setting is displayed: SCAN LIST, ACTIVE PCs or ALL PCs.
- 4 Press  to return to the 'Configuration Menu'.




Note: The setting of this option also affects which computers are visited when the channel is changed using the mouse buttons or hot key + tab.

To select an autoscan period

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'Global Preferences' option and press  to select.
- 3 Highlight the 'Autoscan Period' option and press  repeatedly until the required time to view each computer is displayed, ranging from 2 seconds to 5 minutes.
- 4 Press  to return to the 'Configuration Menu'.

To define an autoscan list

Note: This stage is required only when the 'SCAN LIST' mode is selected.

- 1 Display the [Configuration menu](#).
- 2 Highlight the 'Edit Computer List' option and press  to select. A list of all eight possible computer locations will be displayed. Only computers that show a 'X' marker on the right of the list will be autoscanned.
- 3 Highlight a computer name, then press  to apply, or remove, the 'X' marker.
- 4 Press  to return to the 'Configuration Menu'.

To start autoscanning

- On the keyboard, press   .

Notes:

During autoscanning, mouse switching, hot key + tab and interactivity with the computers are all disabled.

During autoscanning, only the KVM and speaker ports are switched to each visited computer channel, the two USB device ports remain connected to their currently selected channels.

To stop autoscanning

You can stop the autoscanning process in several ways:

- Select the on-screen menu,
- Press the COMPUTER button on the front panel, or
- Select a specific channel using the hot keys + channel number.



Performing upgrades

The AdderView PRO unit is fully upgradeable via flash upgrade. Such upgrades require a Windows-based computer system to be linked via the OPTIONS port.

Items required to perform an upgrade

- Supplied serial upgrade cable (see [Appendix 2](#) for pin-out specifications).
- A Windows-based upgrade computer with an RS232 serial port.
- The latest version of the KVM Firmware Uploader and firmware files for the AdderView PRO - available from the *Technical Support > Updates* section of the Adder Technology website (www.adder.com).

To use the KVM Firmware Uploader utility

1 - Obtain and run the KVM Firmware Uploader.

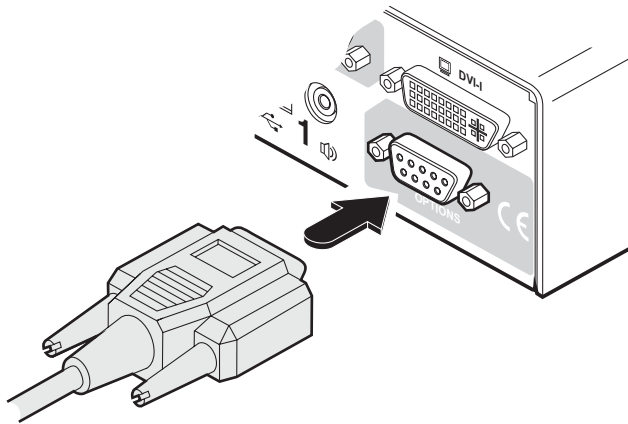
Download the latest AdderView PRO KVM Firmware Uploader from the Adder Technology website and install it on a Windows-based upgrade computer that will be connected to the AdderView PRO unit. The files are supplied as a compressed ZIP file. Decompress the ZIP file with an appropriate tool such as WinZip (www.winzip.com) and copy all contained files to the same folder on the upgrade computer.

2 - Power off the AdderView PRO

Remove the power supply plug from the rear panel of the unit.

3 - Connect the upgrade computer to the AdderView PRO

Connect the serial port of the upgrade computer to the OPTIONS port on the rear panel of the unit using a (straight through) serial upgrade cable.



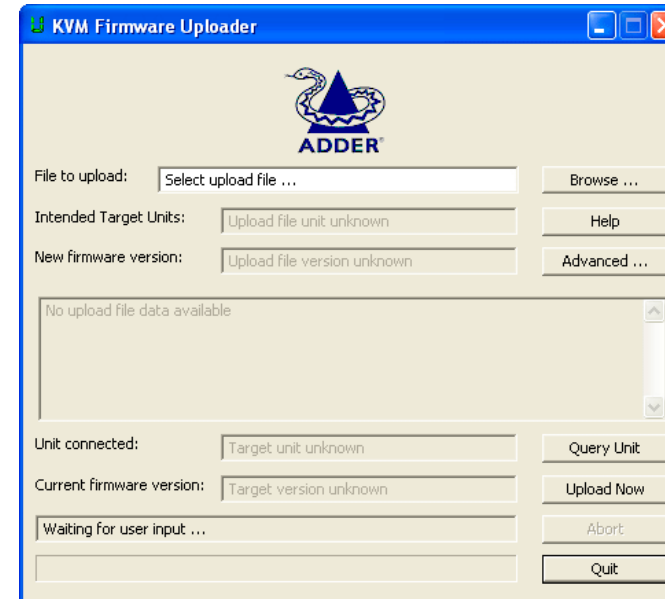
There is no need to adjust the computer's serial port settings as the application will do this automatically.

4 - Invoke upgrade mode

While powering on or when already powered: Press and hold the COMPUTER and MODE buttons (for up to ten seconds) until the numeric indicator shows 'U'. The UPG indicator should also illuminate to show that the AdderView PRO is ready to be upgraded.

5 - Run the KVM Firmware Uploader utility

From that folder, select the KVMUploader icon to run the upgrade utility. The KVM Firmware Uploader dialog will be displayed:



6 - Query the AdderView PRO

Click the *Query Unit* button to confirm that communication is possible with the AdderView PRO and to establish its firmware details. If successful, the 'Unit connected' field should show the name of the AdderView unit and the current firmware will also be listed.

If the application cannot contact the AdderView PRO, re-check the connection cable and click the *Advanced...* button to check that the correct serial port is being used. Change the serial port within the *Advanced...* section, if necessary.

continued



7 - Select the upgrade file to be used

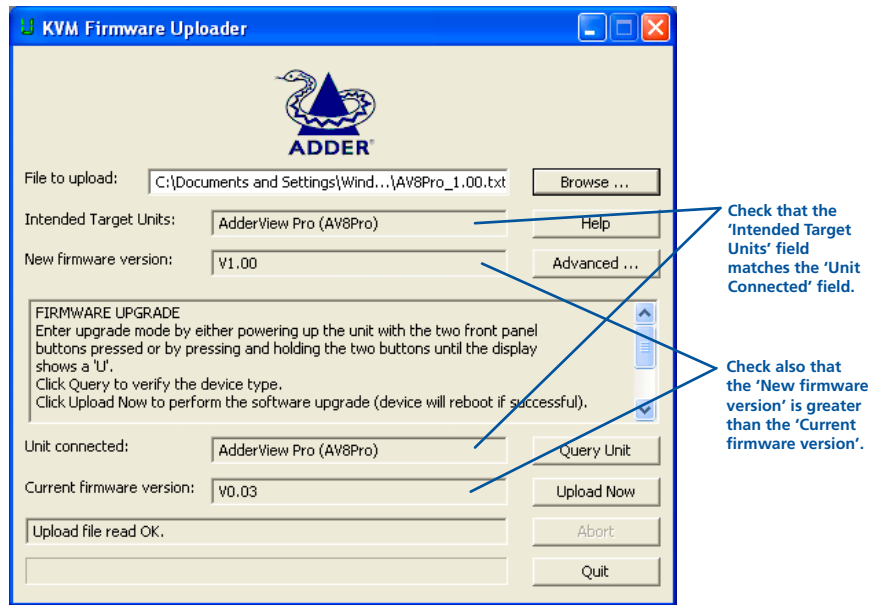
From the main KVM Firmware Uploader dialog, click the *Browse...* button and select the upgrade file:

AV8Pro_xxx.txt

where xxx is the firmware version.

The upgrade file details will be displayed within the dialog.

IMPORTANT: Check that the 'Intended Target Units' field matches the 'Unit Connected' field. If these fields do not match then you may have an incorrect upgrade file, check with Adder Technology Ltd before proceeding. Check also that the 'New firmware version' is greater than the 'Current firmware version'.



8 - Commence the upgrade

To begin the upgrade process, click the *Upload Now* button. The progress will be shown within the dialog. Should you decide not to continue with the upload at any stage, click the *Abort* button; response to this is usually immediate, however, during an erase command, the upload will not be aborted until the erase is complete (this may take a few seconds).

9 - Cycle the power

Disconnect the power. When the power is re-applied the AdderView PRO will operate using the new firmware.

Issues to consider when performing flash upgrades

The upgrade program rewrites the internal firmware code. If the upgrade process is interrupted then the unit will have invalid code and will not be able to operate. It is therefore good practice to ensure that the upgrade process is always fully completed. A partial or failed upgrade may be rectified by performing another upgrade. If the upgrade process is interrupted accidentally then you should press and release the front panel reset button without re-powering the unit.

WARNING: Running faulty or partially upgraded code may have unpredictable results and may damage your AdderView PRO or computing equipment.

Operation

Selecting a computer

There are four main ways to switch the common peripherals to specific computer channels:

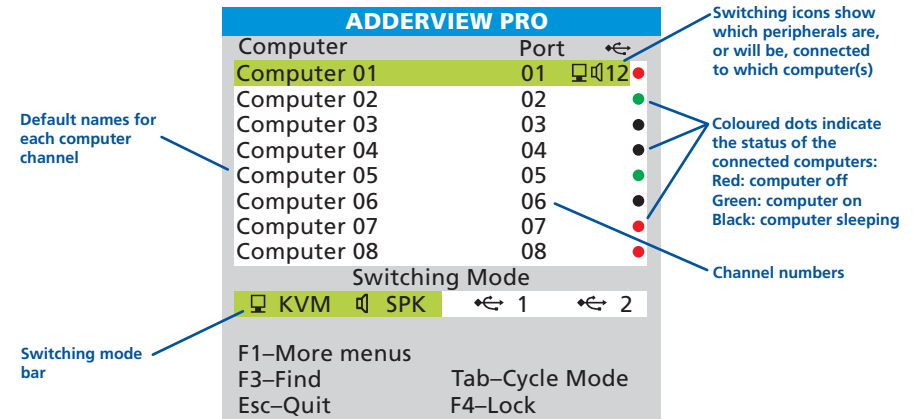
- Using the on-screen menu
- [Using the front panel controls](#)
- [Using mouse button presses](#)
- [Using hotkeys](#)

Note: When first powered on, the on-screen menu will be displayed, and the front panel indicator will show a dash (-) to signify that no channel is selected.

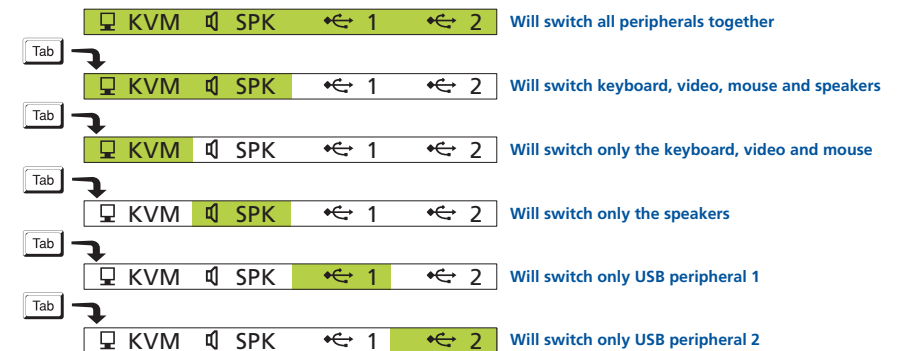
To select a computer using the on-screen menu

- 1 Select the on-screen menu in one of three ways:
 - Simultaneously press and then release **Ctrl** **Alt** **M**, or
 - Press the middle and right buttons of a three button mouse. *Note: Only if 'Mouse Switching' option is enabled. See [Global preferences](#).*
 - Press and hold the front panel COMPUTER button for five seconds.

The Selection menu will be displayed:



- 2 Optional: If you need to selectively switch some of your peripherals, use the tab key to change the switching mode:

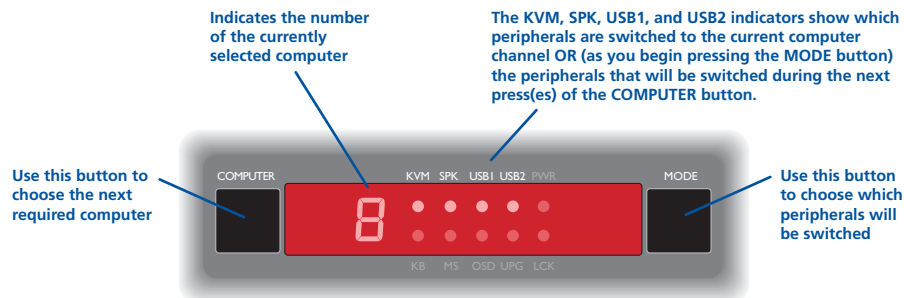


Whenever the Keyboard, Video and Mouse (KVM) are switched (either as a separate group or together with other peripherals), the on-screen menu will disappear as the new computer channel is displayed. For all other peripheral switching, the on-screen menu will remain displayed - press the ESC button to remove the menu from the screen.

- 3 Use the and keys (or the scroll wheel of an IntelliMouse) to highlight the required computer name.
- 4 Press to switch the chosen peripherals to the highlighted computer channel.

To select a computer using the front panel

The front panel allows you to determine how the various peripherals are switched to one or more computer channels.



- Optional: If you need to selectively switch some of your peripherals, press the MODE button repeatedly to change the switching mode:

| | KVM | SPK | USB1 | USB2 | |
|------|-----|-----|------|------|---|
| MODE | ● | ● | ● | ● | Will switch all peripherals together |
| MODE | ● | ● | ● | ● | Will switch keyboard, video, mouse and speakers |
| MODE | ● | ● | ● | ● | Will switch only the keyboard, video and mouse |
| MODE | ● | ● | ● | ● | Will switch only the speakers |
| MODE | ● | ● | ● | ● | Will switch only USB peripheral 1 |
| MODE | ● | ● | ● | ● | Will switch only USB peripheral 2 |

Note: If an indicator flashes, it signifies that the respective peripheral is currently switched to another computer channel.

- Press the COMPUTER button repeatedly to select the required computer channel.

To select a computer using the mouse buttons

Using the mouse buttons, you can quickly switch the keyboard, mouse, video monitor, speakers and/or USB peripherals to any computer channel.

Note: These procedures work only with three-button or IntelliMouse devices and only if the 'Mouse Switching' option has been enabled.

To select a computer using only the mouse buttons

- Hold down the middle button (or scroll wheel) of the mouse.
- Click the left mouse button to select the next computer channel. When the correct channel is reached, release the middle button.

When using this method of switching:

- The channels that are visited depend upon the [Autoscan Mode](#) setting within the Global Preferences menu.
- The ports (KVM, audio and/or USB) that are switched depend upon the switching mode using either the [on-screen menu](#) or the front panel buttons (see left).

To select a computer using mouse buttons and on-screen menu

- Select the on-screen menu by pressing the middle and right buttons of a three button mouse.
- Use the scroll wheel to highlight the required computer channel.
- Then, either:
 - Select the channel - press the left mouse button.
 - Escape without selecting a channel – press the right mouse button.

The ports (KVM, audio and/or USB) that are switched using this method depend upon the switching mode that is currently set using either the [on-screen menu](#) or the front panel buttons (see left).

Choosing which computers are accessed when using mouse buttons

The computer channels that are visited when you use the mouse buttons are determined by the [Autoscan Mode](#) setting within the Global Preferences menu:

- ALL PCs - visits all channels regardless of computer status,
- ACTIVE PCs - limits the choice of channels to those with active computers, and
- SCAN LIST restricts selection to those channels specifically marked for inclusion (see [Editing the computer list](#) for more details).





To select a computer using hotkeys

Using hotkey combinations, you can quickly switch the keyboard, video monitor, mouse and speakers and USB peripherals to any computer channel.

There are two main ways to use hotkeys: *Standard* and *Additional*.

Standard hotkey press combinations

The standard hotkey press combinations allow you to change channels with the minimum of keypresses:
















- 1 Simultaneously press and hold  and .
- 2 While still holding  and , press the number key of the required channel address (or the TAB key), then release all of the keys.

Note: The numbers on your keyboard's numeric keypad are not valid, use only the numeral keys above the QWERTY section.



The ports (KVM, audio and/or USB) that are switched using this method depend upon the switching mode that is currently set using either the [on-screen menu](#) or the [front panel buttons](#).

The range of standard hotkey combinations are as follows:

Note: If your hotkeys have been changed, substitute them for  and  in the examples given here.





| | |
|---|---------------------------------------|
|    | Selects channel 1 |
|    | Selects channel 2 |
| • | • |
| • | • |
|    | Selects channel 8 |
|    | Blanks the video |
|    | Selects the next channel (see note ⇨) |

What are hotkeys?

The  and  keys when pressed in combination are called 'hotkeys' and they signal to the AdderView PRO that you wish to control it, rather than the computer. However, if these particular hotkeys clash with another device or program, you can change them to a different combination within the Setup Options menu.

Additional hotkey press combinations

In addition to the standard hotkey press combinations (shown left), you can also add additional keypresses in order to determine which peripherals are switched:

- 1 Simultaneously press and hold  and .
- 2 Press and release a command key:
 - A** to switch all peripherals
 - K** to switch only the keyboard, video and mouse
 - S** to switch only the speakers
 - U** to switch only USB1 and USB2
- 3 Press and release the required channel number (1 to 8 using only the keys above the QWERTY section).
- 4 Release  and .

The appropriate peripherals will change to the chosen channel.

Note: Regardless of which peripherals were switched, the front panel indicators will continue to show the switching mode that was last determined using either the on-screen menu or the front panel switches.

Choosing which computers are accessed when using hot keys + tab

The computer channels that are visited when you use the hot keys + tab are determined by the [Autoscan Mode](#) setting within the Global Preferences menu:

- ALL PCs - visits all channels regardless of computer status,
- ACTIVE PCs - limits the choice of channels to those with active computers, and
- SCAN LIST restricts selection to those channels specifically marked for inclusion (see [Editing the computer list](#) for more details).

Further information



This chapter contains a variety of information, including the following:

- Getting assistance - see right
- Appendices
 - Appendix 1 - [Configuration menus](#)
 - Appendix 2 - [Cable specifications](#)
- [Safety information](#)
- [Warranty](#)
- [Radio frequency energy statements](#)

Getting assistance

If you are still experiencing problems after checking the list of solutions in the Troubleshooting section then we provide a number of other solutions:

- Adder Technology website – www.adder.com
Check the Support section of our website for the latest solutions and driver files.
- Email – support@adder.com
- Fax in the UK: **01954 780081**
 in the US: **+1 888 275 1117**
- Phone in the UK: **01954 780044**
 in the US: **+1 888 932 3337**

INSTALLATION

CONFIGURATION

OPERATION

FURTHER
INFORMATION

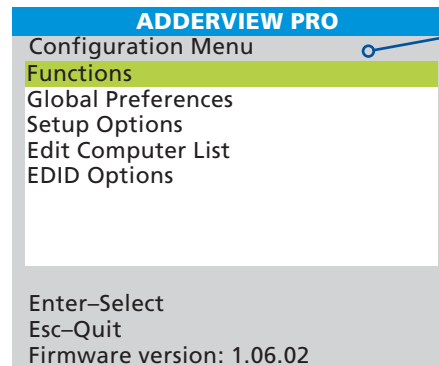
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Appendix 1 – Configuration menus

The AdderView PRO configuration menus allow a range of settings to be made both to the installation as a whole and to parts of the system accessed by each user.

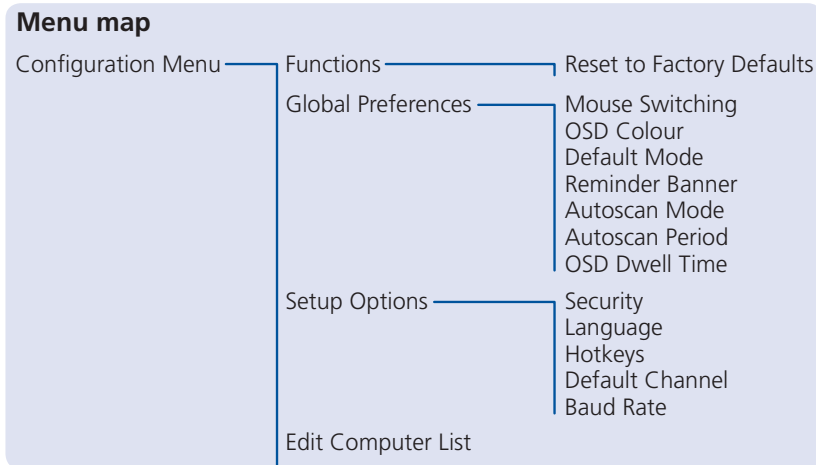
To access the configuration menus

- 1 Select the on-screen main menu in one of two ways:
 - By simultaneously pressing and then releasing **Ctrl**, **Alt**, **M**, or
 - By pressing the middle and right buttons of a three button mouse.
- 2 Press **F1** to select 'More menus'.
- 3 Use the following keys:
 - ↑ and ↓ to highlight an option.
 - ↵ to select an option.
 - Space to change option values.
 - Esc to quit and save the changes.



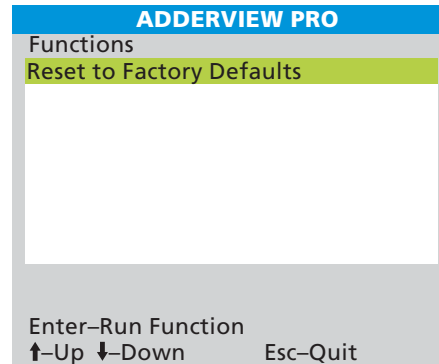
The following items and menus are available in the Configuration menu:

- [Functions](#)
- [Global Preferences](#)
- [Setup Options](#)
- [Edit Computer List](#)
- [EDID Options](#)



Functions

The Functions menu contains the Reset to Factory Defaults option.



To get here

- 1 Press **Ctrl** **Alt** **M** (hotkeys can change).
- 2 Press **F1** to select 'More menus'.
- 3 Select 'Functions'.

Reset to Factory Defaults

Returns all key settings within the AdderView PRO to their original states.

WARNING: This function will clear all stored computer names.

When this option is selected, you must press the F7 key to confirm the action. The internal data will be rewritten and a completion message displayed after a short period.

Global Preferences

The Global Preferences menu contains a collection of settings that affect various aspects of operation.

| ADDERVIEW PRO | |
|--------------------|-----------|
| Global Preferences | |
| Mouse Switching: | ENABLED |
| OSD Colour: | SCHEME 1 |
| Default Mode: | ALL |
| Reminder Banner: | AFTER OSD |
| Autoscan Mode: | SCAN LIST |
| Autoscan Period: | 5 SECONDS |
| OSD Dwell Time: | 2 SECONDS |

Space-Toggle
↑-Up ↓-Down Esc-Quit

Mouse Switching

Settings: *ENABLED, DISABLED*

The computer channel can be switched using a three button mouse or IntelliMouse. Pressing the central button or wheel button together with the left hand mouse button will cause the unit to switch to the next available computer. When mouse switching is enabled the central mouse button or wheel mouse button is allocated to control the AdderView PRO and is not therefore available for use by computer applications. If you want to use the central mouse button within your applications you will need to disable mouse switching. The rotation action of an IntelliMouse wheel is not affected and is always available to the computer application.

OSD Colour

Settings: *SCHEME 1, SCHEME 2, SCHEME 3, SCHEME 4*

As you toggle between these options you will see the colour of the menu change to show the selected scheme. The menu schemes have been specially chosen to provide a high contrast with the colours that you would normally see on a computer screen. This setting also affects the colour of the reminder banner.

Default Mode

Settings: *ALL, KVM + SPK, KVM ONLY, SPK ONLY, USB1 ONLY, USB2 ONLY*

Determines which peripheral switching mode should be offered as standard. Regardless of the default mode that is set, during use you can always change the switching mode using either the TAB key (in the on-screen menu) or the MODE button (on the front panel). *Note: The Default Mode setting affects switching controlled by the on-screen menu and front panel only. If you use the mouse or hotkeys to effect switching then both the KVM and Speakers will be switched as usual.*

To get here

- 1 Press **Ctrl** **Alt** **M** (hotkeys can change).
- 2 Press **F1** to select 'More menus'.
- 3 Select 'Global Preferences'.

Reminder Banner

Settings: *ALWAYS, AFTER OSD, NEVER*

Determines whether a banner should be displayed (momentarily showing the name of the currently selected computer) following either a change to the selected channel or after exiting the on-screen menu. Use the 'OSD Dwell Time' setting to determine how long the banner should be displayed.

Autoscan Mode

Settings: *SCAN LIST, ALL PCs, ACTIVE PCs*

Determines which computers will be visited when the autoscan mode is invoked (CTRL + ALT + X). SCAN LIST will visit only those that are marked with an 'X' within the Edit Computer List; ALL PCs will switch between all computers and ACTIVE PCs will visit only those computers that are switched on.

Additionally, when 'SCAN LIST' is selected, whenever you use either the mouse buttons or hot keys + tab to change channels, only computers that are active will be visited. No other preparation is required to achieve this, apart from setting this mode to 'ACTIVE PCs'.

Autoscan Period

Settings: *2, 5, 7, 15, 30 SECONDS, 1, 5 MINUTES, DISABLED*

Determines the period of time that will be spent viewing each computer during an autoscan session.

OSD Dwell Time

Settings: *1, 2, 3, 5 SECONDS*

After a successful computer channel change, the unit will display a confirmation message for a few seconds (subject to the setting of the 'Reminder Banner' option). The length of time that this confirmation message dwells on the screen may be changed using this option.



Setup Options

Setup options consist of key settings that are normally made only during the initial installation stage.

| ADDERVIEW PRO | |
|------------------|----------|
| Setup Options | |
| Security: | ENABLED |
| Language: | ENGLISH |
| Hotkeys: | CTRL+ALT |
| Default Channel: | OSD |
| Baud Rate: | 1200 |
| Space-Toggle | |
| ↑-Up ↓-Down | Esc-Quit |

Security

Settings: *ENABLED, DISABLED*

Allows you to set a password with which you can lock access to the connected computers and AdderView PRO menus. When you change this option to ENABLED, you will be asked to enter and confirm a password that will be used when locking and unlocking access to the menus. For more details, see [Enabling security](#).

Language

Settings: *ENGLISH, FRENCH, GERMAN, SWEDISH*

This option specifies the language that is used for the on-screen menu and the keyboard layout that is assumed for the keyboard. When the French option is selected the keyboard is assumed to have an AZERTY format. When the English, German and Swedish options are selected the keyboard is assumed to have a QWERTY format. The new language settings are enabled when you quit from the SETUP OPTIONS menu. The language option only affects the way that the AdderView PRO interprets the keyboard keys, it does not affect the way that the computers interpret the keyboard. It is advisable to avoid setting a language that you do not understand as all the menus will change to use the new language and you may have difficulty reselecting your original language.

To get here

- 1 Press **Ctrl** **Alt** **M** (hotkeys can change).
- 2 Press **F1** to select 'More menus'.
- 3 Select 'Setup Options'.

Hotkeys

Settings: *CRTL+ALT, CTRL+SHIFT, ALT+SHIFT, ALT GR, L+R ALT, L CTRL+ALT, R CTRL+ALT*

The keyboard hotkeys are special combinations of keys that, when used together with certain keyboard "command keys", perform special AdderView PRO functions. For example, pressing the hotkeys together with the "M" key will cause the on-screen menu to be displayed on your monitor. Other hotkey combinations allow you to query which computer you are connected to and to move the on-screen menu around the screen. You can also use the hotkeys together with the channel number to select a particular connected computer.

Default Channel

Settings: *OSD, CHANNEL 1, 2, 3, 4, 5, 6, 7, 8*

Determines what should occur immediately after the unit is first powered on. The choices allow you to either choose the on-screen menu or switch to any of the eight computer channels.

Baud Rate

Settings: *1200, 2400, 9600, 19200, 38400, 57600, 115200*

Determines the speed of communication through the OPTIONS serial port on the rear panel. You may need to change the speed if you are connecting to another device that needs to synchronise its operation and either control, or be controlled by, the AdderView PRO unit.



Edit Computer List

This option allows you to alter, insert or remove entries within the list of computers. For each entry you can edit the name, change the channel number and/or determine whether the channel should be included within an autoscan session, if necessary.

To edit or create an entry

- 1 Highlight the 'Edit Computer List' option and press .
- 2 Either:
 - *Create a new computer entry*
 - Press and enter a new name, or
 - *Edit an existing computer entry* – Highlight a computer name and press . Press (Backspace) to delete existing characters and enter the required new name (up to 16 characters).

Note: Avoid creating two names for the same computer channel.

- 3 Press and the cursor will move to the computer channel column. Change or enter the channel address (as required) of the computer and press .
- 4 Optional: While the entry is highlighted, press to add/remove the 'x' marker at the right side - this will determine whether or not the corresponding computer will be included autoscanning scan list - see [Autoscanning](#) for more details.

To get here

- 1 Press (hotkeys can change).
- 2 Press to select 'More menus'.
- 3 Select 'Edit Computer List'.

| ADDERVIEW PRO | | |
|--------------------|------------|---|
| Edit Computer List | | |
| Computer 01 | 01 | x |
| Computer 02 | 02 | x |
| Computer 03 | 03 | x |
| Computer 04 | 04 | x |
| Computer 05 | 05 | x |
| Computer 06 | 06 | x |
| Computer 07 | 07 | x |
| Computer 08 | 08 | x |
| Ins-Add | Del-Delete | |
| Enter-Edit | X-Autoscan | |
| ↑↓-Select | F3-Find | |
| Esc-Quit | | |

EDID Options

The options within this section are related to the Extended Display Identification Data features supported by the AdderView PRO. EDID is an industry standard format that allows computer systems to be informed of the capabilities of the video monitor connected to them.

EDID Source

Settings: AUTO, DVI, VGA

Determines which monitor connected to the user console should be interrogated to discover its capabilities. *AUTO* first interrogates the DVI port and, if no EDID data are available, then moves to the VGA port. If the VGA port also fails to provide information then a set of default values will be used. The DVI and VGA settings force the unit to interrogate only those monitors respectively.

EDID Refresh

Settings: AT START, DISABLED

AT START sets the AdderView PRO to read EDID information from the selected source at power up. When *DISABLED*, no new EDID data is sought and existing information will be used. When viewing this menu, you can press F7 to discover EDID information from the chosen source immediately.

To get here

- 1 Press (hotkeys can change).
- 2 Press to select 'More menus'.
- 3 Select 'EDID Options'.

| ADDERVIEW PRO | |
|-----------------|----------|
| EDID Options | |
| EDID Source: | AUTO |
| EDID Refresh: | AT START |
| F7-Refresh EDID | |
| Space-Toggle | |
| ↑-Up ↓-Down | Esc-Quit |

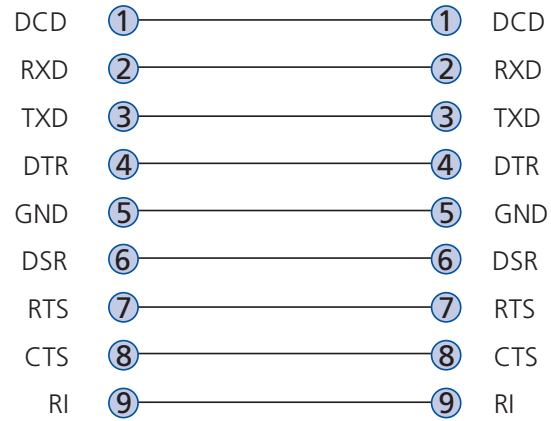


Appendix 2 – Cable specifications

RS232 serial flash upgrade (straight through) cable

9pin D-type male

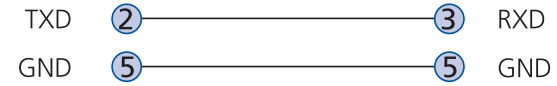
9pin D-type female



Multi-head synchronisation cable

MASTER end
9pin D-type male

SLAVE end
9pin D-type male



Use this cable when two AdderView PRO devices are being synchronised.



- INSTALLATION
- CONFIGURATION
- OPERATION
- FURTHER INFORMATION**
- INDEX

Warranty

Adder Technology Ltd warrants that this product shall be free from defects in workmanship and materials for a period of two years from the date of original purchase. If the product should fail to operate correctly in normal use during the warranty period, Adder will replace or repair it free of charge. No liability can be accepted for damage due to misuse or circumstances outside Adder's control. Also Adder will not be responsible for any loss, damage or injury arising directly or indirectly from the use of this product. Adder's total liability under the terms of this warranty shall in all circumstances be limited to the replacement value of this product.

If any difficulty is experienced in the installation or use of this product that you are unable to resolve, please contact your supplier.

Safety information

- For use in dry, oil free indoor environments only.
- Both the AdderView PRO and its power supply generate heat when in operation and will become warm to the touch. Do not enclose them or place them locations where air cannot circulate to cool the equipment. Do not operate the equipment in ambient temperatures exceeding 40 degrees Centigrade. Do not place the products in contact with equipment whose surface temperature exceeds 40 degrees Centigrade.
- Warning - live parts contained within power adapter.
- No user serviceable parts within power adapter - do not dismantle.
- Plug the power adapter into a socket outlet close to the module that it is powering.
- Replace the power adapter with a manufacturer approved type only.
- Do not use the power adapter if the power adapter case becomes damaged, cracked or broken or if you suspect that it is not operating properly.
- If you use a power extension cord with the AdderView PRO, make sure the total ampere rating of the devices plugged into the extension cord does not exceed the cord's ampere rating. Also, make sure that the total ampere rating of all the devices plugged into the wall outlet does not exceed the wall outlet's ampere rating.
- Do not attempt to service the AdderView PRO yourself.



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Radio Frequency Energy

All interface cables used with this equipment must be shielded in order to maintain compliance with radio frequency energy emission regulations and ensure a suitably high level of immunity to electromagnetic disturbances.

European EMC directive 89/336/EEC

This equipment has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in the European standard EN55022. These limits are designed to provide reasonable protection against harmful interference. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions may cause harmful interference to radio or television reception. However, there is no guarantee that harmful interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment on and off, the user is encouraged to correct the interference with one or more of the following measures: (a) Reorient or relocate the receiving antenna. (b) Increase the separation between the equipment and the receiver. (c) Connect the equipment to an outlet on a circuit different from that to which the receiver is connected. (d) Consult the supplier or an experienced radio/TV technician for help.

FCC Compliance Statement (United States)

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, that is, in strict accordance with the manufacturer's instructions, may cause interference to radio communication. It has been tested and found to comply with the limits for a class A computing device in accordance with the specifications in Subpart J of part 15 of FCC rules, which are designed to provide reasonable protection against such interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area may cause interference, in which case the user at his own expense will be required to take whatever measures may be necessary to correct the interference. Changes or modifications not expressly approved by the manufacturer could void the user's authority to operate the equipment.

Canadian Department of Communications RFI statement

This equipment does not exceed the class A limits for radio noise emissions from digital apparatus set out in the radio interference regulations of the Canadian Department of Communications.

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de la classe A prescrites dans le règlement sur le brouillage radioélectriques publié par le ministère des Communications du Canada.



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