

User Manual





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Safety Instructions

To prevent damage to your Datapath product or injury to personnel operating the equipment, please read the following safety precautions prior to operation. These instructions should be made available to all those who will use and operate Datapath products.

Power Supply

All Datapath products require a mains power supply. This power supply must be disconnected when equipment is being upgraded or relocated.

Cables

Do not expose cables to any liquids; doing so may cause a short circuit which could damage the equipment. Do not place heavy objects on top of any cables as this can cause damage and possibly lead to exposed live wires.

Ventilation

All computer equipment should be located in a well ventilated area. All ventilation holes on the unit casing must be kept clear of any obstruction at all times. Failure to do so will result in the system over heating and damaging your equipment.

Working Environment

The equipment should be located in an environment free from dust, moisture and extreme changes in temperature and should be placed on a stable and solid work surface. Liquids (hot/cold drinks etc) should not be placed near the equipment as spillage could cause serious damage.

Gas/Flammable Liquids

Electronic equipment should never be used in the presence of gas or any flammable liquid, doing so could result in an explosion or serious fire.

Smoke/Unusual Smells

Should you notice smoke or unusual smells being emitted from your computer, turn off and unplug the system from the mains supply. The system should then be passed to a qualified technician for inspection. Continued operation could result in personal injury and damage to property.

Maintenance

Maintenance should only be carried out by competent technicians, any Datapath products that are physically damaged should be returned to Datapath for repair using Datapath RMA procedures.

Disposal

At the end of life all Datapath products should be disposed of as per local laws and regulations dictate. In UK contact Datapath to arrange disposal. Our WEE registration number is WEEE/AAooo5ZR.

Introduction

The Datapath x4 is a stand alone display wall controller that accepts a standard single or dual-link DVI input and can flexibly display this across four output monitors.

Each output can be driven as DVI or analog RGB, and can represent an arbitrary crop region of the original input image. The output resolution and frame rate does not need to be related to that of the input as the Datapath x4 will optionally upscale and frame-rate convert each cropped region independently. However, if the Datapath x4 detects that frame rates identically match it will automatically frame-lock all outputs and if possible, frame-lock these to the input signal. Additionally, each output can be independently mirrored or rotated through 90°, 180° or 270° to support creative mixes of land-scape and portrait monitors.

The Datapath x4 is also ideal for use with edge blending projectors, supporting image overlapping.

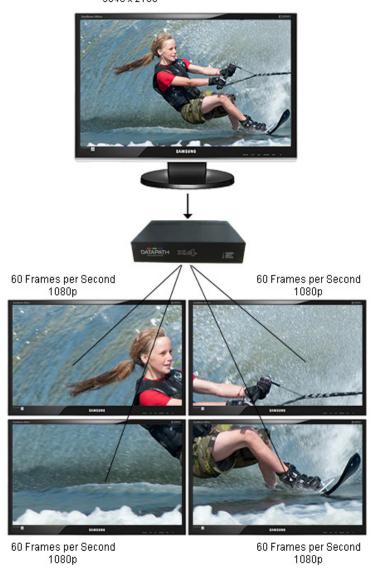
Configuration Examples

Listed on the next few pages are just a few examples of what can be achieved with the Datapath x4. The list of examples is not definitive and users are encouraged to experiment with different display configurations

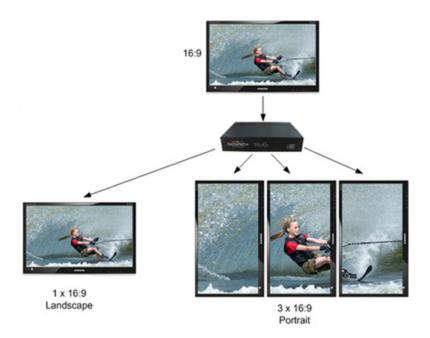


Duplicate the input signal x 4 and displays each duplicate on separate screens

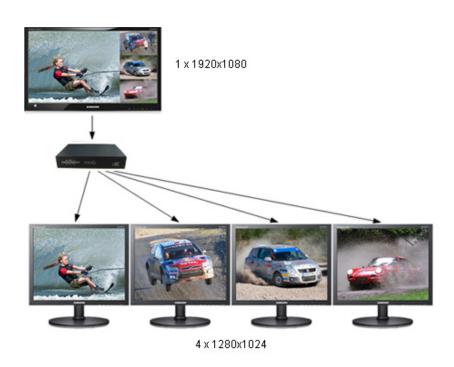
30 Frames per Second 3840 x 2160



Divide the input signal into quadrants and display each quarter on separate displays with optional frame rate conversion (in this case 30Hz to 60Hz). Crop regions can be adjusted to provide monitor bezel compensation.



Duplicate the input signal x2 and display 1 on a single landscape display and divide the 2nd into thirds, rotate to portrait, upscale and split between 3 displays.



Crop input signal, upscale specific areas and display on 4 separate screens.



Crop the input signal into x4 and display x2 quarters landscape and x2 quarters portrait.



Crop the input signal x4 rotate through 90°,180° or 270°, display in landscape and portrait. Arbitrary crop regions can allow the monitors to be artistically arranged, but maintain an undistorted image.

Unpacking

Your packing box should contain the following items:

- The x4 or x4-1U Display Wall Controller
- The x4-PSU Power supply unit with international blades (x4 only)
- 1 x Mains power cable (x4-1U only)
- USB 2.0 cable Type A to Type B.
- Datapath CD containing Configuration Application and User Manual.

Note:

We recommend that you do not discard the packing box until you are completely satisfied with the x4 and it is fully installed and working correctly. We also recommend that you make note of the serial number of the controller in a prominent place before you connect it to the computer. This should hasten any query should you need to contact our Technical Support Department. The serial number is displayed on the x4 and the box label.

Fitting the x4 PSU Blades



Select the appropriate blade for use, place the top edge of the blade into the recess of the PSU and then slide upwards ensuring the release catch clicks firmly into place and secures the blade inside the recess.

To remove the blade, press the release catch down fully and pull the blade away from the PSU recess. The PSU is shipped fitted with the UK blade.

Description

Front panel



Fig.1

Operation Indicators

The front panel has three LEDs to indicate the operational status of the x4:

- Power
- Input
- Status

Power

• When illuminated, the Power LED indicates the x4 is connected to a mains supply using the supplied PSU.

Input

• When illuminated, the Input LED indicates a valid DVI source is connected.

Status

- Continuous illumination Indicates the x4 is operating normally.
- Flashing Unit is operating over the normal operating temperature. Ensure the input fan vent is not blocked.
- If the Status LED goes off and remains off this indicates that the settings configured in the x4 application no longer match the input, this is normally the result of a change of input. The x4 will compensate for the settings and reconfigure itself to display as near to the settings as possible. The output will still be displayed but not necessarily as expected.

When the x_4 device is connected to a PC by a USB cable and the x_4 Control application is active, then all three lights flash in turn to help to identify which unit is being controlled.

Output Framelock (x4-1U only)

The Output Framelock is intended to ease the setup of the x4-10 by setting all four outputs to the exact same timings by replicating the the timings of the first output.

Push and hold the button for approx 3 seconds to activate the Output Framelock. (The three LEDs will flash to indicate the operation is successful).

If the first output is set to "Use The Monitor's Preferred Mode", the EDID timings will be sampled from the monitor, and written into the x4 defaults. Output 1 will then be set to "Always Use the Default Mode".

If output 1 is set to "Always Use the Default Mode", no action is taken on this channel.

Output 2,3 and 4 will have their timing defaults overwritten with those from Output 1 and they will also be set to "Always Use the Default Mode".

The onboard micro in the x4 will then enable the framelocking.

The x4 will now ignore the output monitor connections until it is changed using the x4 application.

Rear Panel



Fig.2

Sync Sockets (Not x4-1U)

The Sync sockets are provided for future genlock enhancements. They should be left unconnected.

USB Socket

The USB socket is used to connect the x4 to a PC via a USB connection using the supplied USB Type A to Type B cable. Configuration of the x4 is programmable via an application utility allowing easy control of cropping, scaling, rotation and gaps.

DVI-D Input Socket

The DVI-D Input socket is used to connect the DVI input source to the x4. The x4 supports Dual Link DVI, Single Link DVI and also HDMI (not HDCP compliant) by using the optional DVI/HDMI Adapter.

DVI-I Output Sockets

The four DVI-I Out sockets are used to connect the x4 to the output monitors. The x4 supports both DVI and analog RGB monitors.

Power

The Power socket is where the power source is connected to the x4. The x4-PSU supplied is plugged into the Power socket. The power LED on the front of the x4 illuminates when a power supply is connected.

Setting up the x4

- Ensure the power supply for the DVI source is disconnected.
- Connect the cable from the DVI source to the input socket on the rear of the x4.
- Connect the four displays to the output sockets on the rear panel of the x4.
- Connect the x4-PSU to the x4 and switch on the power supply at the mains socket using the correct international blade (see page 9).
- Power up the DVI source.

The Power LED located on the front panel will illuminate to indicate that power has successfully been applied to the unit.

The x4 incorporates an internal processor that will continuously monitor the received DVI signal, and whenever a valid and stable input is detected the Input LED is illuminated.

If the Input LED is not illuminated, the x4 cannot detect a valid DVI input source.

During operation, the x4 is able to adjust its internal operation to maintain the programmed output proportions even when the input resolution changes.

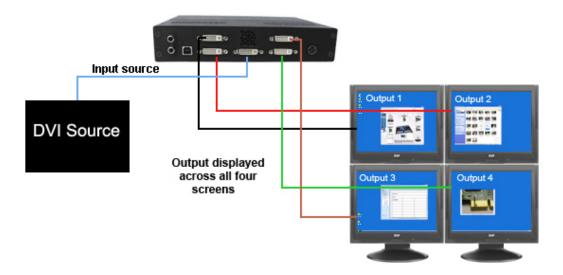


Fig.3

Configuring the x4

Factory Default Settings

The x4 stores a number of parameters to configure its operation. This allows it to operate stand alone in a very flexible manner. The configurations affect the input and output display modes as well as the required partitioning of the input image between monitors.

By default the x4 is configured as follows:

Input EDID Preferred Mode: 1920 x 1080 x 60Hz (SMPTE timings)

Output monitor mode: Use Monitor Preferred Mode

Default: 1920 x 1080 x 60Hz (SMPTE)

Cropping Mode: 2x2 equal split (960x540)

No Rotation

The default settings are changed using the Windows® application provided, which can be run on any Windows® platform and connected to the x4 via the supplied USB cable. A description of the use of the application is provided in the x4 Control Application section.

A Command Line Interface utility is also available for Mac OS x 10.6

The sections below describe the settings that are possible and why they may be needed. For details on how to program the x4 hardware with your desired configurations, please see the x4 Control Application section.

Configuring DVI Input resolution

Because the timings and resolution of the DVI input are set by the DVI source machine, the x4 can only configure this indirectly by presenting a programmable "Preferred Mode" as part of its EDID (Extended Display Identification Data).

Most graphics cards and HDMI appliances automatically select the "Preferred Mode" resolution and timings presented by the x4 EDID, but they may need to be forced to re-detect if the EDID contents are changed by the x4 application. This would typically be via a hot-plug event caused by disconnecting and reconnecting the DVI input cable.

The configuration application will allow read back of the resolution that is currently being detected, as well as the ability to read and write the internal EDID rom.

Monitor Outputs

The x4 can be configured to read the corresponding EDID of each monitor that is connected and to drive out a signal that corresponds to the resolution, timings and mode (RGB or DVI) of the Preferred Mode. This is the factory default configuration.

Please note that when different monitors are attached to the four outputs, each may advertise a different Preferred Mode, therefore each output will be driven at a different mode.

Whenever the monitor EDID is used, the x4 will calculate the internal scale factors to ensure that the monitor (at whatever resolution it is being driven) will still display the correct proportion of the input image.

If an EDID cannot be read (for example if the monitor cable does not support the DDC signals required), there is a default mode that can be programmed into the x4's memory. This is factory configured to 1080p.

In some cases it may be that the user requires a very specific output timing (for example when frame-locking to the input) irrespective of the monitor EDIDs. In this case the x4 can be configured to always output the mode that has been programmed as the default mode.

Selecting the Regions to Be Displayed

Each output of the x4 can take its display data from any arbitrary rectangular region of the captured input image. The factory default for these cropping rectangles configures the four monitors to display a quarter of the input as a 2x2 array, and these proportions are maintained across different input resolutions.

For a 108op input, this means that 960x540 pixels from the input image would be up scaled by a factor of 2 in each direction if the selected output resolution was 108op.

However if the input resolution were to change to 1600x1200, then for the same output monitor the x4 would upscale from an 800x600 region and would reprogram its scale factors to 2.4 horizontally and 1.8 vertically to support the same 1080p monitor.

The cropping regions can be assigned arbitrarily and can overlap, the only restriction being that the resulting scale factor must be greater than 1.0 (ie 1:1 or up scaled) in either direction. As an example it is possible to use the x4 to output four identical copies of the input signal (providing the resulting output timings remain within the capabilities of the single-link DVI outputs).

The regions of the input image to be displayed on a given output monitor can be programmed via USB by using the Datapath configuration application.

In order to support portrait orientation of monitors, the source data can be rotated by 90°, 180° or 270° as it is output to the monitor.

Operating Instructions

DVI Input

When the X₄ is powered up successfully and the Power, Input and Status LED indicators are illuminated; this indicates that a DVI input mode has been detected and is working normally.

If the Input LED indicator is not on, check to ensure a single or dual link DVI cable is correctly fitted to the appropriate sockets.

At high resolution, DVI signals cannot normally be guaranteed beyond 5m cables due to the nature of the signal losses inherent in the DVI cables and connectors. Datapath have added active equalization hardware on the x4 which is able to compensate for these losses and support cable lengths of up to 20m even at full dual-link resolutions (330Mhz pixel clocks). Lower resolutions will allow even longer cable lengths.

This allows more flexible positioning of the x4 relative to the source and the displays.

Once the LED indicators are illuminated, the X₄ will display the source across all four screens according to the configuration that is stored in its non-volatile memory. The x₄ is factory configured to display the input image as a 2x₂ split as shown in Fig.₃.

Output

To connect to an analog output, a DVI-I-VGA cables are required. To connect to a DVI output, a DVI-D cable is required.

Configuring the x4

The x4 has a USB port to allow a host PC to connect to the x4 box and for the user to program its configuration. Once configured the x4 will run stand-alone without the need for the USB connection and will auto detect input resolutions and adjust internal scaling to drive the output monitors consistently.

Frame-lock

The Firmware running on the x4 will detect when input and/or output timings are set to identical frame rates and will automatically frame-lock the syncs in these cases. In all frame-lock modes, the timings are configured to share a common reference clock, so there will be no drift in synchronisation, and therefore no requirement for continual adjustment that can sometimes upset LCD panels. The frame-lock status is shown in the x4 Control Application.

x4 Control Application

Application Installation

Note: Do not plug the x4 into a USB port until the driver installation is complete.

Locate the Install folder on the Datapath CD supplied with the x4, run install.exe. and follow the installation wizard. During installation a warning message is displayed stating that the driver does not have Windows® Logo accreditation.

Select Continue Anyway to complete the installation.

The Datapath x4 can now be connected to a suitable USB 1.0 or 2.0 port using the cable supplied. At this point the hardware will be detected by Windows® as a USB API, and a New Hardware wizard is displayed. Allow the wizard to search, and click on the recommended option to enable the previously installed driver to be associated with the new hardware.

Press Continue Anyway to accept the driver.

Running the x4 Control Application

To open the x4 Control application select Start/All Programs/Datapath x4.

The application will search for an x_4 connected to your computer and display the status of the first x_4 detected. Should there be more than one x_4 in use, a list of all available x_4 's can be found in the File menu.

Once the application has detected an x4 the main status screen is displayed Fig. 4.

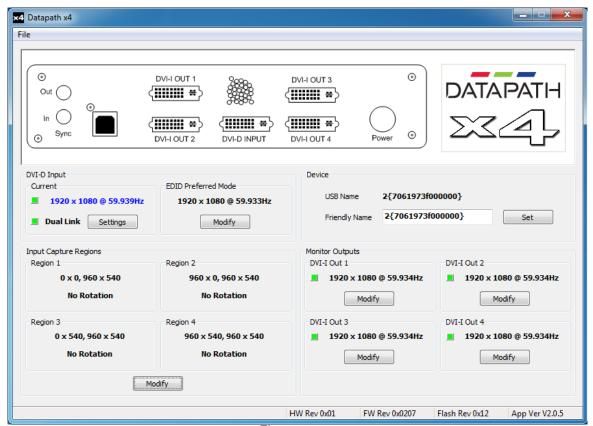


Fig.4

The main control dialog is divided into the following groups:

Connection Diagram

DVI-D Input

Input Capture Regions

Device

Monitor Outputs

Connection Diagram

The connection diagram displays a schematic view of the rear panel of the x4 to assist in identifying the connectors.

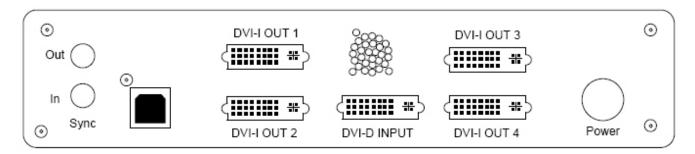
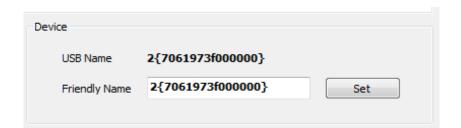


Fig.5

Device

The unique USB device name that is connected is displayed in the Device group. It is possible to associate a more user friendly name such as "First Four Outputs". The friendly name is stored in non-volatile storage on the x4 and can to help identify the device during future configurations. Specific devices connected to your PC can be selected using the Select Device.. command on the File Menu. The x4s will be listed by the USB Device or by a previously configured friendly name.



DVI-D Input

The DVI-D Input group displays the current DVI mode that is being captured (if any) and the preferred mode that has been programmed into the x4's EDID. Use the Modify button to update the EDID. The small square to the left of the current input resolution indicates whether the x4 has frame-locked to the input source.

- Green The outputs are frame-locked to the input dot clock and vertical sync
- Grey The outputs are not frame-locked



Fig.7

To boost the equalization hardware click on the Settings button and the following dialog is displayed. Fig 8.

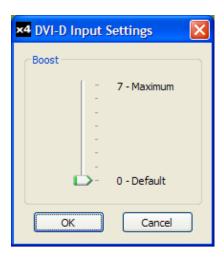


Fig.8

Use the slider to compensate for the loss signal quality due to DVI cable lengths over 5 m. The equalization hardware can compensate for cables up to 20m in length.

To change the timings of the input EDID click on the Modify button and the following dialog is displayed. Fig 9.

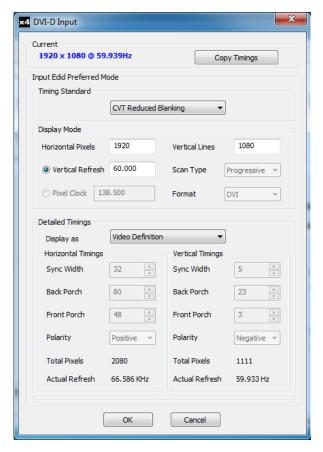


Fig.9

The DVI-D Input dialog displays the resolution of the current mode for reference and allows the timings of the EDID preferred mode to be edited. To populate the EDID timings with the current timings click on the Copy Timings button.

The dialog supports standard timing formulae such as:

- VESA CVT
- VESA CVT Reduced Blanking
- SMPTE (for HD modes)
- VESA GTF
- Custom

Selecting Auto from the drop down list will typically default to the VESA CVT algorithm which best matches typical standard VESA output modes. However, to minimise dot clocks and hence maximise DVI cable lengths, the CVT Reduced Blanking is recommended.

Selecting Custom allows the timing parameters to be edited. It should be noted that you will need to select between definition of Pixel Clock or Vertical Refresh since these are mutually exclusive parameters.

Once edited, clicking OK writes the preferred mode into the EDID but may not normally affect the input mode that is being captured. It may be necessary to force the graphics device in the host machine to detect the new modes, this can be done by selecting Detect on the Screen Resolutions dialog box (Windows® 7) or by disconnecting the source from the x4 and reconnecting.

All modifications to the Input settings can be saved as part of a .vqs file, removing the requirement to input the same settings again. To save the settings select the Save... command in the File menu. To open a saved .vqs file select the Open... command.

Limitations

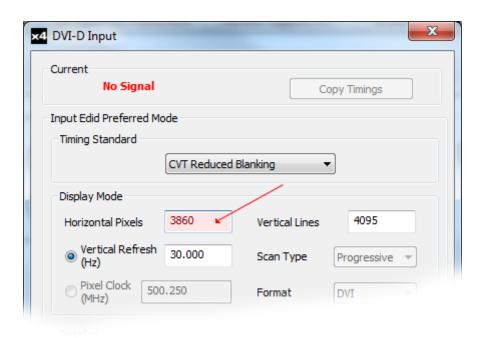


Fig.10

Figures entered as the Input EDID Prefered Mode may exceed the internal bandwidth limitation of the x4, if this happens a warning is displayed in the form of the figures being highlighted pink, as shown in Fig.10

Input Capture Regions

Each output of the x4 can select a different region of the input source image. This dialog (Fig. 11) displays the settings of each region (region 1 corresponds to output 1 etc). The numbers denote the top, left, width and height coordinates of the region that is to be displayed. Note that these are described in terms of the current active input resolution. If the input resolution changes, the capture region coordinates scale to the new input resolution in order to maintain the same proportions.



Fig. 11

To modify any of these settings click on Modify to display the edit dialog (Fig. 12).

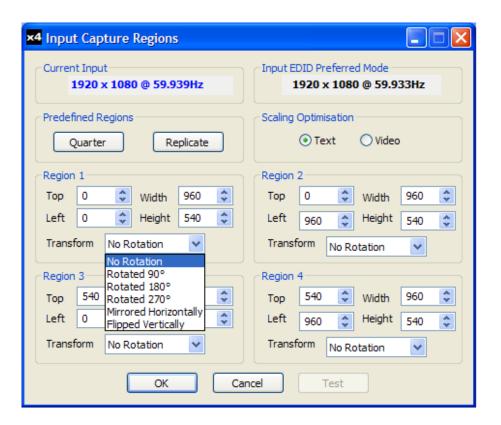


Fig.12

Predefined Regions

For ease of use, there are preset buttons to select the two most popular configurations: Quarter or Replicate.

Quarter

The first monitor displays the top left hand corner of the input image, the second monitor the top right, the third the bottom left etc. This mode of operation can be used to drive four monitors in a 2x2 arrangement from a single high resolution input.

Replicate

Each output displays the entire input image. The output monitors can be driven at the same resolution (with different timings if necessary) or a higher resolution.

There are no restrictions (other than the resulting scale factor must be 1:1 or upscale) in the region settings, so it is possible to have regions overlapping, or to program in gaps etc. Additionally each region can have a transform such as rotation or flipping applied to it (after cropping) in order to support different output monitor orientations.

Please note that there may be instances where a setting stored in non-volatile memory which was valid when it was stored (ie the scale factors from input to output were 1:1 or greater) may subsequently require down-scaling if the resolution of the input increases. In this case the firmware will adjust the scaling factors to give a 1:1 crop of the input, centred on the original region. In order to indicate that at least one output is no longer exactly honouring the programmed region setting, the front panel status light will not be illuminated.

Scaling Optimisation

Scaling Optimisation is used to optimise displays that have been scaled. If the display is mostly text based, Text should be selected. This will ensure that the displayed text remains sharp after scaling. If the display is video based select Video. Scaling optimisation will ensure a smooth, un-pixellated display of video.

All modifications to the Region settings can be saved as part of a .vqs file, removing the requirement to input the same settings again. To save the settings select the Save... command in the File menu. To open a saved .vqs file select the Open... command.

Monitor Outputs

The Monitor Outputs group shows the actual resolution and refresh rate that each of the four x_4 outputs is currently providing. To see more information such as whether this is an analog RGB or DVI mode, if it is the monitor EDID preferred mode or a default mode programmed into the x_4 , along with detailed timing information, click on the Modify button for the required output.

The frame-lock status is indicated by the small coloured squares:

Green

The outputs are frame-locked to the Vsync of the first monitor, using a common reference clock. If the Input frame-lock light is green (see above), then the reference clock is taken from the input DVI source, and the system is fully frame-locked to this source. If the input frame-locked indicator is grey, then the outputs are frame-locked together, but are not related to the input sync.

Grey

The outputs are NOT frame-locked.



Fig.13

Individual monitor outputs can be configured by clicking on the corresponding Modify button. This will bring up a timing dialog similar to that of the input timings. This dialog is shown in Fig.14.

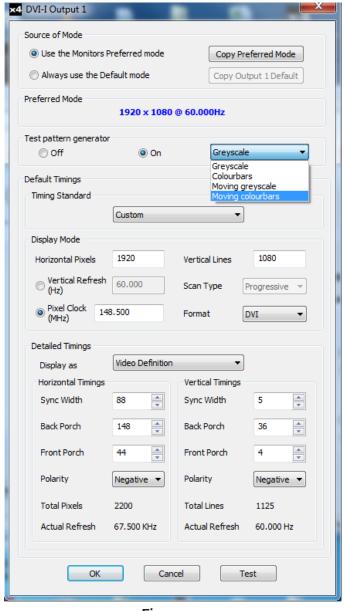


Fig.14

The source of mode selection controls whether the x4 output should take its timing values and resolution from the preferred mode of the monitor that is connected, or use its internally programmed 'default' mode. Please note that only the internal default timings can be edited in this dialog.

If Use the Monitors Preferred Mode is selected, but no valid EDID can be read from the attached monitor, then the x4 firmware will program the output using the default mode timings.

The x4 application has built in test patterns to enable the user to view a display on screen without a source connected to the x4. To display the test pattern click the Modify button on the required output and the modify output dialog is displayed (Fig.14). Activate the Test pattern generator by sececting On and use the drop down menu to select the required test pattern (see Fig.14).

Note:

The test pattern functionality is only available on software release Version 2.0.12 onwards. Detailed information on upgrading your x4 can be found in the latest x4 software download available on the Datapath website.

The rest of the dialog is identical to that for setting the Input timings, with the exception that for the output monitors it is possible to select Analog RGB ("VGA") output as well as DVI.

All modifications to the Output... settings can be save as part of a .vqs file, removing the requirement to input the same settings again. To save the settings select the Save... command in the File menu. To open a saved .vqs file select the Open... command.

Finally there is a Test button which should be used when defining a default mode that you are not sure the attached monitor can support. In test mode, the output timings are programmed, but they are not saved to non-volatile memory on the x4 until the OK button is pressed to accept the mode.

Specification

| Physical Dimensions | x4 - 235 x 175 x 44mm/9.25" x 6.9" x 1.75" x4-1U: 438 x 173 x 40mm/17.24" x 6.81" x 1.57" |
|---|--|
| Operating Temperature Range | o - 35 DegC/32 - 96 DegF |
| Power Requirements | 5V DC, 18W. Universal mains power adapter supplied (100-240V) |
| | Datapath x4-1U: Internal PSU |
| Cooling | The unit contains a cooling fan. The input and |
| | output vents should not be restricted |
| USB 2.0 | Full speed (12Mbits/s) operation supported |
| 1 x Dual link DVI capture | To 330 Mpixels/s |
| Input Surface | 4k x 4k maximum |
| 4 x Single link DVI or analog RGB outputs | To 165Mpixels/s |
| Output Screens Resolutions | Up to 2.5Mpixel (maximum 2048 pixels in either direction) |
| Arbitrary Up Scaling | Up to 64 x Non-integer scale factors allowed |
| Firmware Support | Updates supported via USB |
| Warranty | 3 years |

Models Available

| Code | Description |
|-------|--|
| X4 | Desktop Display Wall Controller |
| x4-1U | Rack Mountable Display Wall Controller |

Datapath Limited

Datapath has a long and very successful history in the computer graphics industry. Datapath has been designing and supplying high performance, high quality graphics display systems to the world's largest and most demanding companies and institutions since 1982. Datapath was one of the founding companies of multi-screen Windows acceleration using single and multi board solutions. Now using the very latest display technology Datapath offers some of the world's leading multi screen graphics accelerators for the most demanding applications.

As new technology advances, so we at Datapath improve the performance and functionality of both our hardware and software to give our customers more. Following a continuous development program, we pride ourselves on our support and responsive nature towards all our customers and their changing needs. As more sophisticated equipment and techniques become readily available, so we are there to exploit the power and potential that this technology presents.

Technical Support

Registered Users can access our technical support line using, email, and the Support page on the Datapath Web Site, usually with a response within 24 hours (excluding weekends).

Via Email

Send an email to support@datapath.co.uk with as much information about your system as possible. To enable a swift response we need to know the following details:

- Specification of the PC including processor speed
- Operating System
- Application Software
- Datapath Hardware / Software
- The exact nature of the problem and please be as specific as possible.

Please quote version and revision numbers of hardware and software in use wherever possible.

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「电子信息产品污染控制标识要求」的表示方式

(1) 电子信息产品污染控制标识



根据 2006/2/28 公布的"电子信息产品污染控制管理办法", 这个标记是适用于在中国销售的电子信息产品的环境保护使用期限。 只要能遵守本产品在安全和使用方面的注意事项,从生产日算起的年限以内, 不会对环境污染,人体,财产产生深刻的影响。

注)产品正常使用终结废弃时,有关电子信息产品的回收、再利用等要遵守各自治体的法律法规的要求。 Note: This symbol mark is for China only.

(2) 含有有害 6 物质的名称,含有量,含有部品

本产品中所含有的有害6物质的名称,含有量,含有部品如下表所示。

产品中有毒有害物质或元素的名称及含量

| | | Toxic or Hazardous Substances and Elements | | | | 有毒有害物质或元素 | |
|----------|------------|--|------|------|----------|-----------|--------|
| 20 | 2002/96/EC | 铅 | 汞 | 镉 | 六价铬 | 多溴联苯 | 多溴二苯醚 |
| | | (Pb) | (Hg) | (Cd) | (Cr(VI)) | (PBB) | (PBDE) |
| Contents | 实装基板 | × | 0 | 0 | 0 | 0 | 0 |

备注(○或×的表示意思)

〇:表示该有毒有害物质在该部件所有均质材料中的含量均在 SJ/T11363-2006 标准规定的限量要求以下。

×:表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

1. 零部件名称的"框架",包括外部框架及内部构件。

(3) 包装回收标志(GB18455-2001)

废弃包装材料时,请遵守各地有关包装材料回收、再利用的法律规定。



: 外装箱

LDPE

:缓冲材料