Mosaic Video Input Card

The Mosaic is a PCI plug-in card which has been designed to operate in conjunction with the Horizon 4VW-DIG graphics card. The Mosaic, when combined with the Horizon 4, provides up to 9 separate video overlay windows. For systems that require more than 9 overlay windows, a second Mosaic card can be installed providing up to 18 separate windows.

Software Features

- Up to 9 Video overlay windows on a single screen.
- Overlay windows can be randomly sized, overlapped and positioned anywhere on the Windows Desktop.
- Multi-Screen support, no position or size restrictions.
- Mosaic supports up to 4 Horizon 4VW-DIG graphics adapters.
- Video overlay windows are updated in real time with zero CPU overhead.
- Multi-standard video support, PAL, NTSC, SECAM and S-Video.
- Separate controls for brightness, contrast, colour and cropping.
- Window border selection and chroma keying.
- Mosaic user application program.
- Windows NT4, 2000 and XP driver support with an SDK.

On Card Connectors

- 2 x 26 way D connectors mounted on the back panel providing connection for video inputs.
- 2 x 40 way ribbon headers for connection to the Horizon 4VW-DIG adapters.
- On card jumper links provide selection of terminated or un-terminated 75ohm video inputs. (27 links, 3 for each overlay)

Multiple Mosaic Cards

For systems that require more than 9 overlay windows a second Mosaic card may be installed providing up to 18 windows. With this configuration each Mosaic card is set-up to operate over a proportion of the multi-screen display. For example: If a 4 x 3 screen video/data wall is constructed using 3 x Horizon 4VW-DIG graphics cards, each Mosaic card would typically be configured to cover half the wall. Therefore the first Mosaic will operate and display over the left side 2 x 3 displays and the second Mosaic card would operate over the right hand 2 x 3 displays. i.e.

The screen areas covered by each Mosaic card can display up to 9 video windows, each window can be randomly sized, positioned, overlapped and layered anywhere with the area of the screen. When using a single Mosaic card the screen area covered by the card would normally be set to all screens.

Technical Specifications

<table>
<thead>
<tr>
<th>Card Type</th>
<th>PCI 2.2 compliant adapter.</th>
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<tbody>
<tr>
<td>Card size</td>
<td>100 x 260 (mm)</td>
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<tr>
<td>Max number of video overlay windows</td>
<td>9</td>
</tr>
<tr>
<td>Supported video formats</td>
<td>PAL, NTSC, SECAM and S-Video</td>
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<tr>
<td>Inputs per overlay window</td>
<td>2 x Composite or 1 x Composite and 1 x S-video.</td>
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<tr>
<td>Power consumption</td>
<td>12 watts.</td>
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<tr>
<td>Power requirements</td>
<td>+5V at 2.2Amps, +12V at 100mA</td>
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