

X-VIEW DPX-E XV-DVI-DL Input Module



The XV-DVI-DL is the latest new video input module for the X-View DPX-E series of multi image display processors. XV-DVI-DL provides a single input DVI Dual Link with 650MB/s transfer bandwidth, which enables a maximum canvas of 4K x 4K from a DVI input source. *Note: this card does not support analogue inputs, HDMI audio is not supported.*

XV-DVI-DL has integrated DVI equalizers on its inputs to support longer cable lengths (up to 20m).

XV-DVI-DL provides extreme performance with 650MB/s transfer bus bandwidth, this industry beating performance makes the XV-DVI-DL ideal for a wide variety of applications.

XV-DVI-DL 1 channel DVI/HDMI input module Specifications

- 4 lane PCI express single slot module
- HD video capture for all progressive and interlaced DVI/HDMI modes
- Captures Quad-HD (2160p) Digital Cinema modes at 24/25/30fps
- 650MB/s data transfer with high performance DMA via system memory or direct to GPU
- 128MB on board frame buffer
- Input EQ. supporting longer input cables (20m)
- High performance DMA to system memory or direct to graphics memory with scatter gather HQ scaling.

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| Card Format | PCIe x4 Plug In module |
| Card Size | 110mm x 170mm |
| Connectors | 1 x Dual Link DVI-D connector |
| Maximum sample rate | 330MHz DVI-D connection |
| Video sampling | RGB 24 bits per pixel /888 format |
| DVI Single Link Mode | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080,1900x1200 |
| Pixel Transfer Formats | RGB: 555, 565, 888 (24bit/32bit) pixels. YUV: 422, UYVY, YUY2, YVYU |
| Update Rate | User defined, captured frame rate will match source rate providing maximum data rate (650MB/s) is not exceeded. Multi buffered to eliminate tearing artifacts. |
| Video Format Options | Dual-Link DVI, Single-Link DVI |
| Frame Buffer Memory | 128MB Triple Buffered |
| Max Current at 3.3V | 0.2A |
| Max Current at 12V | 0.9A (Peak) |
| Max Power | 12 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |
| MTBF | 100,000 Hours |

X-View is a brand name of e-mediavision Ltd

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X-VIEW DPX-E XV-RGBE1s Input Module



The XV-RGBE1s is the latest new video input module for the X-View DPX-E series of multi image display processors. XV-RGBE1s provides a single DVI video input which can accept VGA/DVI/HDMI HD inputs for real time display across the video wall in a fully scaled and positioned window. *Note: HDMI HDCP & Audio is not supported.*

XV-RGBE1s enables HDMI, DVI or YUV HD input to be captured in real time. One DVI connector provides a single input per module for feeding external computers and HD video sources.

XV-RGBE1s provides extreme performance with 650MB/s transfer bus bandwidth, this industry beating performance makes the XV-RGBE1s ideal for a wide variety of applications.

XV-RGBE1s 1 channel DVI/VGA/HDMI input module Specifications

- 4 lane PCI express single slot module
- Component HD up to 1080p at 60 frames per second
- HDMI up to 1080p (does not support audio or HDCP)
- 650MB/s data transfer with high performance DMA via system memory or direct to GPU
- DVI up to 1920 x 1200
- VGA up to 2048 x 1536
- Supports capture and streaming via third party DirectShow encoders – VLC/Adobe Flash..

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| Card Format | PCIe x4 Plug In module - low profile |
| Card Size | 68.9mm x 167.6mm |
| Connectors | 1 x DVI-I |
| Maximum sample rate | 170Mpixels per second analog RGB or 165 MHz DVI. Analog modes up to 340MHz pixel clock can be captured using dual pass sampling. |
| Video sampling | RGB 24 bits per pixel /888 format |
| Analog RGB mode support | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080, 2048x1536, custom modes. 0.5V -1.0V pp |
| DVI Single Link Mode | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080,1900x1200 |
| HD Modes | 1080p,1080i,720p,576p,576i,480p,480i using a component HD to DVI adaptor, HDCP & Audio not supported |
| Pixel Transfer Formats | RGB: 555, 565, 888 (24bit/32bit) pixels. YUV: 422, UYVY, YUY2, YVYU |
| Update Rate | User defined, captured frame rate will match source rate providing maximum data rate (650MB/s) is not exceeded. Multi buffered to eliminate tearing artifacts. |
| Video Format Options | Analog RGB & H/V sync (5wire), RGB with composite sync (4 wire), RGB with Sync on Green (3 wire), DVI single link. |
| Frame Buffer Memory | 32MB Triple Buffered |
| H Sync | 15KHz – 110KHz |
| V Sync | No Hardware limits, typically 25Hz – 200Hz for real signals |
| Max Current at 3.3V | 0.25A |
| Max Current at 12V | 0.5A (Peak) |
| Max Power | 7 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |
| MTBF | 100,000 Hours |

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X-VIEW DPX-E XV-RGBE2s Input Module



The XV-RGBE2s is the latest new video input module for the X-View DPX-E series of multi image display processors. XV-RGBE2s provides 2 DVI video inputs which can accept VGA/DVI/HDMI HD inputs for real time display across the video wall in a fully scaled and positioned window. *Note: HDMI HDCP & Audio is not supported.*

XV-RGBE2s enables HDMI, DVI or YUV HD input to be captured in real time. Two DVI connectors provide independent inputs per module for feeding external computers and HD video sources.

XV-RGBE2s provides extreme performance with 650MB/s transfer bus bandwidth, this industry beating performance makes the XV-RGBE2s ideal for a wide variety of applications.

XV-RGBE2 2 channel DVI/VGA/HDMI input module Specifications

- 4 lane PCI express single slot module
- Component HD up to 1080p at 60 frames per second
- HDMI up to 1080p (does not support audio or HDCP)
- 650MB/s data transfer with high performance DMA via system memory or direct to GPU
- DVI up to 1920 x 1200
- VGA up to 2048 x 1536
- Supports capture and streaming via third party DirectShow encoders – VLC/Adobe Flash..

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| Card Format | PCIe x4 Plug In module |
| Card Size | 110mm x 170mm |
| Connectors | 2 x DVI-I |
| Maximum sample rate | 170Mpixels per second analog RGB or 165 MHz DVI. Analog modes up to 340MHz pixel clock can be captured using dual pass sampling. |
| Video sampling | RGB 24 bits per pixel /888 format |
| Analog RGB mode support | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080, 2048x1536, custom modes. 0.5V -1.0V pp |
| DVI Single Link Mode | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080,1900x1200 |
| HD Modes | 1080p,1080i,720p,576p,576i,480p,480i using a component HD to DVI adaptor, HDCP & Audio not supported |
| Pixel Transfer Formats | RGB: 555, 565, 888 (24bit/32bit) pixels. YUV: 422, UYVY, YUY2, YVYU |
| Update Rate | User defined, captured frame rate will match source rate providing maximum data rate (650MB/s) is not exceeded. Multi buffered to eliminate tearing artifacts. |
| Video Format Options | Analog RGB & H/V sync (5wire), RGB with composite sync (4 wire), RGB with Sync on Green (3 wire), DVI single link. |
| Frame Buffer Memory | 64MB Triple Buffered |
| H Sync | 15KHz – 110KHz |
| V Sync | No Hardware limits, typically 25Hz – 200Hz for real signals |
| Max Current at 3.3V | 0.25A |
| Max Current at 12V | 1.2A (Peak) |
| Max Power | 15 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |
| MTBF | 100,000 Hours |

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X-VIEW DPX-E XV-SD4+1s Input Module



The XV-SD4+1s is the latest new video input module for the X-View DPX-E series of multi image display processors. XV-SD4+1s provides 4 SD video inputs which can be composite or Y/C format with support for PAL, SECAM and NTSC video, with full de-interlacing and real time 25/30 frames/sec display per input and 1 x DVI input that supports HD video to 1080P, VGA/RGB to 2048 x 1536 resolution.

XV-SD4+1s enables HDMI, DVI or YUV HD input to be captured in real time and displayed across the display wall in a fully scalable video window all in real time. *Note: HDMI HDCP & Audio is not supported.* XV-SD4+1s provides extreme performance with 650MB/s transfer bus bandwidth, this industry beating performance makes the XV-SD4+1s ideal for a wide variety of applications.

XV-SD4+1s 4 channel video & 1 DVI/HDMI input module Specifications

- 4 lane PCI express single slot module
- 4 x Composite Video or Y/C inputs & 1 x DVI/VGA/HDMI input
- Maximum video resolution 720 x 576 CV/Y/C, HDMI 1920 x 1080P, RGB/VGA 2048x1536
- 650MB/s data transfer with high performance DMA via system memory or direct to GPU
- On board processor for real time mode and sync detection
- Adjustments for Colour, brightness and contrast per input
- Supports capture and streaming via third party DirectShow encoders – VLC/Adobe Flash..

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| Card Format | PCIe x4 Plug In module |
| Card Size | 110mm x 204mm |
| Connectors | 1 x DVI-I and 1 x D connector for SD video inputs |
| Number of SD input channels | 4 (PAL, NTSC, SECAM CV or Y/C) |
| Maximum SD input resolution | 4 x 720 x 576 x 16Bit |
| Analog RGB mode support | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080, 2048x1536, custom modes |
| DVI Single Link Mode | 640x480,800x600,1024x768,1280x1024,1600x1200,1920x1080,1900x1200 |
| HD Modes | 1080p,1080i,720p,576p,576i,480p,480i using a component HD to DVI adaptor, HDCP & Audio not supported |
| Pixel Transfer Formats | RGB: 555, 565, 888 (24bit/32bit) pixels. YUV: 422, UYVY, YUY2, YVYU |
| Update Rate | User defined, captured frame rate will match source rate providing maximum data rate (480MB/s) is not exceeded. Multi buffered to eliminate tearing artifacts. |
| Video Format Options | Analog RGB & H/V sync (5wire), RGB with composite sync (4 wire), RGB with Sync on Green (3 wire), DVI single link. |
| Frame Buffer Memory | 64MB Triple Buffered |
| Max Current at 3.3V | 0.25A |
| Max Current at 12V | 1.2A (Peak) |
| Max Power | 15 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |
| MTBF | 100,000 Hours |

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X-VIEW DPX-E XV-SD8 Input Module



The XV-SD8 is the latest new video input module for the X-View DPX-E series of multi image display processors. XV-SD8 provides 8 video inputs which can be composite or Y/C format with support for PAL, SECAM and NTSC video, with full de-interlacing and real time 25/30 frames/sec display per input.

XV-SD8 when configured for use with composite video inputs, on board jumper links provide input signal loop through via secondary connector, allowing for easy signal distribution in complex configurations.

XV-SD8 provides extreme performance with 480MB/s transfer bus bandwidth, this industry beating performance makes the XV-SD8 ideal for a wide variety of applications.

XV-SD8 8 channel video input module Specifications

- 4 lane PCI express single slot module
- 8 x Composite Video or Y/C inputs
- Maximum video resolution 720 x 576
- Input Loop Through when used with CV inputs
- 480MB/s data transfer with high performance DMA via system memory or direct to GPU
- On board processor for real time mode and sync detection
- Adjustments for Colour, brightness and contrast per input
- Supports capture and streaming via third party DirectShow encoders – VLC/Adobe Flash..

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| Card Format | PCIe x4 Plug In module |
| Card Size | 110mm x 170mm |
| Number of input channels | 8 (PAL, NTSC, SECAM CV or Y/C) |
| Maximum input resolution | 8 x 720 x 576 x 16Bit |
| Maximum number of cards per system | 16 (128 video inputs) |
| Frame Buffer Memory | 32MB |
| Max Current at 3.3V | 0.25A |
| Max Current at 12V | 0.6A (Peak) |
| Max Power | 8 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |
| MTBF | 100,000 Hours |

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X-VIEW DPX-E XV-SDI2 Input Module



The XV-SDI2 is a dual channel PCIe HD-SDI video input module. The input module supports SD-SDI, HD-SDI and 3G-SDI (including 2K Digital Film Resolution modes).

XV-SDI2 is a PCI Express x4 plug in card which delivers extreme performance with 650MB/s transfer bus bandwidth. This industry beating performance makes the XV-SDI2 ideal for a wide range of applications including:

- Display Wall Controllers
- Broadcasting
- Machine Vision: Acquire SDI camera output
- Advanced Medical applications

Display Walls & Video Streaming

The XV-SDI2 is fully integrated with X-View DPX-E family of video wall display products providing high resolution digital video support. DirectShow Drivers for WDM streaming driver supports applications to encode, record and stream video over networks or internet.

The XV-SDI2 can automatically detect the video source into the cards inputs and provides loop through output for each input.

XV-SDI2 2 channel Video Input module Specifications

- Dual Channel PCIe (x4) 3G/HD/SD -SDI capture card
- Supports video modes up to 1080p 60Hz with loop through connections.
- Audio output for each channel to an onboard SPDIF header (use with X-View audio module)
- High quality scaling (7x5 Polyphase Filter)
- Long range, single co-ax cable support (150M @ 1080p, 300M @ SD)
- 16 Cropping windows per input channel
- Low power consumption

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| Card Format | PCIe x4 Plug In module, 110mm x 170mm |
| Video Modes | 480i/576i, 1080i (HD-SDI), 1080p (3G) & 2K modes |
| Number of input channels | 2 with loop through on BNC's |
| Maximum SDI bit rate | 3Gb/s |
| Pixel transfer formats | RGB:5-5-5, 5-6-5 or 8-8-8 (24/32bit) pixels, YUV:4:2:2, Mono 8bit |
| Update Rate | User defined, Captured frame rate will match source providing max data rate (650MB/s) is not exceeded, multi buffered to eliminate tearing artefacts. |
| Max Current at 3.3V | 0.45A |
| Max Current at 12V | 0.85A (Peak) |
| Max Power | 12 Watts |
| Operating Temperature | 0 to 35 Deg C |
| Relative Humidity | 5% to 90% non-condensing |

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