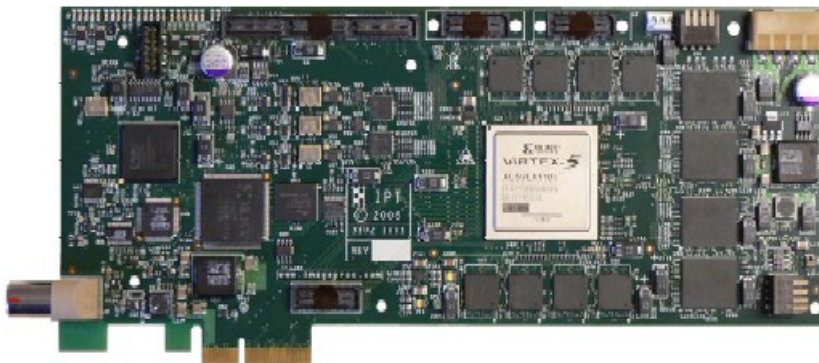




Mugen PCIe HD/SD Multi-Channel Video Effects Processor

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(Infinite Visions)



The Mugen PCIe Multi-Channel HD/SD Video Effects Processor is a High-Quality PCI-Express-based Video Effects Processor, offering 2 Channels of HD DVE, with Key, Warps & Lights.

1.APPLICATIONS

- Stand Alone DVEs
- Presentation Switchers
- 3D Virtual-Set Processors
- Broadcast Graphics
- PC-Based Video editing Systems

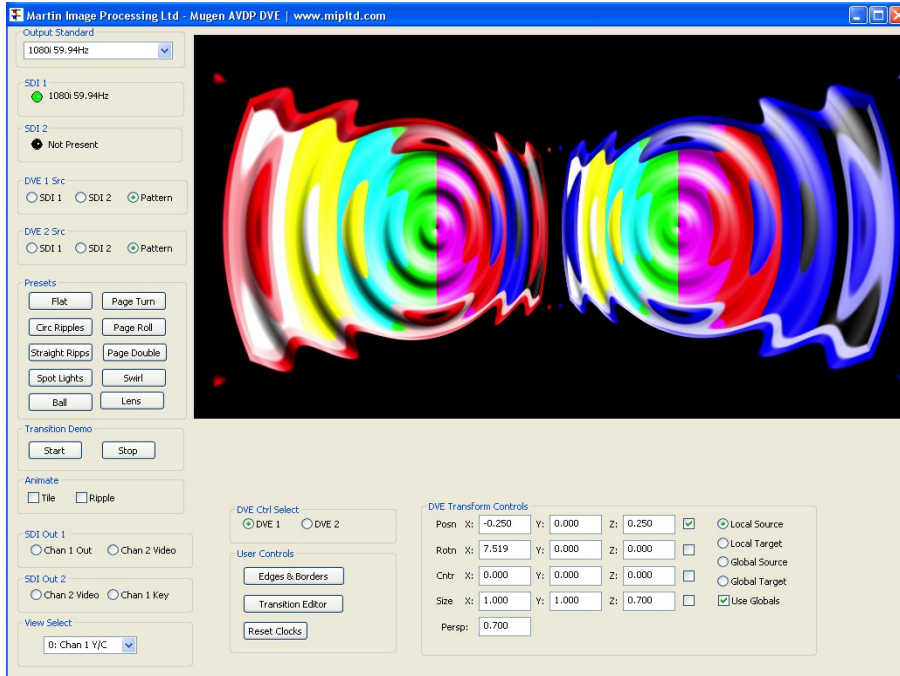
For further information, please contact
MIP Ltd
Maple House, High Street Potters Bar
Hertfordshire, UK, EN6 5BS
www.mipltd.com

2.KEY FEATURES

- 2 Channels of High Quality HD DVE (1080i), each with (optional) Key Channel
- High Quality Single Channel 1080p Mode, with (optional) Key Channel
- High Quality Single Channel Frame-Based Mode
- Multiple Video I/O Channels
- High Quality Multi-Field Adaptive De-Interlacing Filter
- Full Range of DVE Effects
 - 3D Rotation/Perspective
 - 3D Warp Effects
 - Page Turns & Rolls
 - Circular & Straight Ripples
 - Swirls
 - Lens
 - Etc
 - 3D Light Effects
 - Realistic 3D Lighting effect
 - Two Lights per DVE Tile
 - Flat, Bar & Spot Modes
 - 3D Light positioning
 - Variable Intensity & Colour
 - 3D Border Generator
 - Variable highlights & translucency
- Dual Channel Output Combiner
- Multi-Standard HD/SD Operation
- SD Mode allows up to 4 SD Channels (Field Mode)
- Full functionality DVE driver software package
 - Real-time control
 - Pre-built Sequences
 - User-Defined sequences
 - Full Control of DVE Source, Target, Local & Global Space
 - Full Control over DVE Effects Parameters
- Full Library of Pre-Built Sequences
- Flexible I/O Configurations
- Real-Time Streaming of DVE Outputs back to Host PC
- Single Slot PCI Express (x4) design
- Demo Control Application
- Software simulator also available
- Available separately as an IP Core for embedded applications

3. Driver Software & Control Application

The Mugen DVE is provided with a full driver set, running under Windows, and a simple application showing how control of the DVE is achieved.



The control application allows selection of several Preset setups, basic control of both DVEs, and control over the sequence engine.

The Mugen DVE allows the DVE Output to be pull-back over the PCIe interface, for display in the control application.

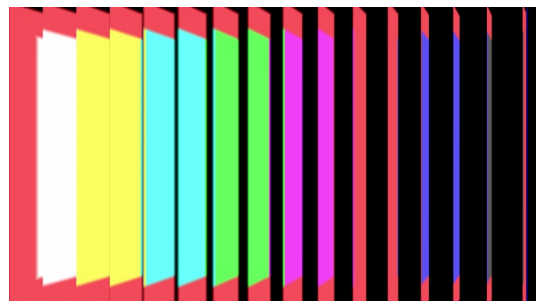
Please Note:

*This is not intended as a full DVE-Control system – just a basic control example
Please contact Mip Ltd if a full real-time DVE Control System is required*

Example DVE Images



Double Page Turn

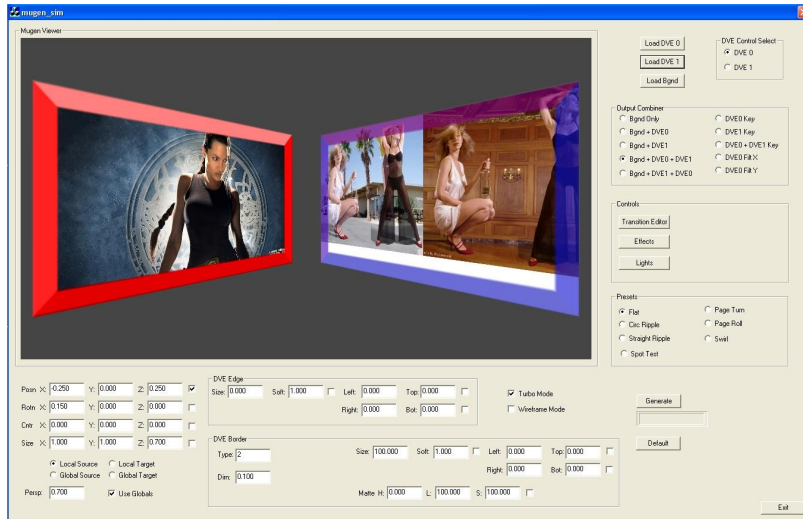


16-way Vertical Blinds

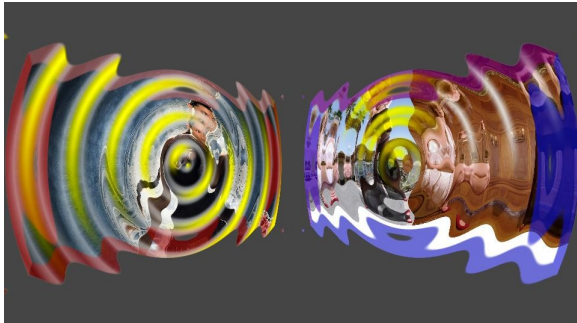
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4. Mugen DVE Simulator Software

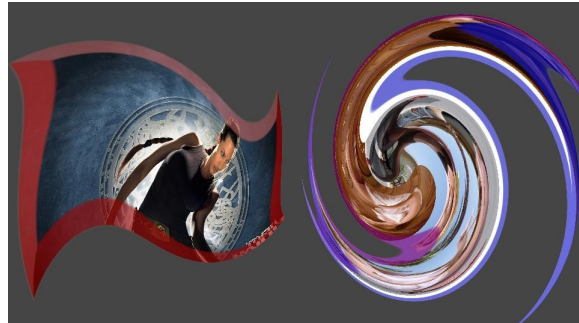
The Mugen DVE Simulator allows the DVE effects and controls to be easily evaluated. It provides a faithful reproduction of the hardware algorithms in pure software.



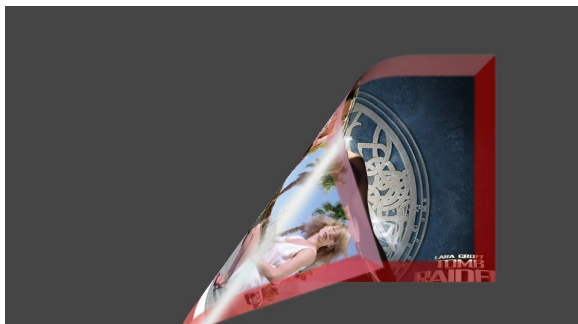
This example shows two DVE Tiles with 3D Transparent borders.



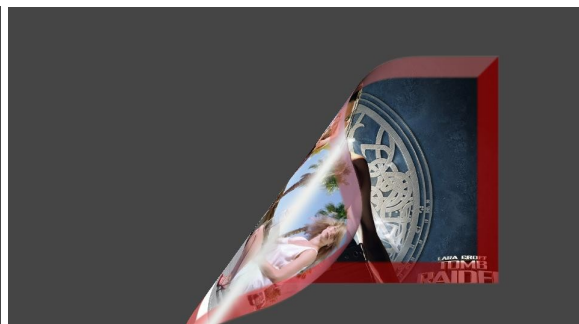
This example shows the Circular Ripple Effect with 3D Lighting enabled



Another 3DDVE Effect – Swirl
The two tiles have different amounts of the Swirl effect applied.



This shows a two-channel Page Turn, with lighting...



... while this shows a Page Roll effect

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