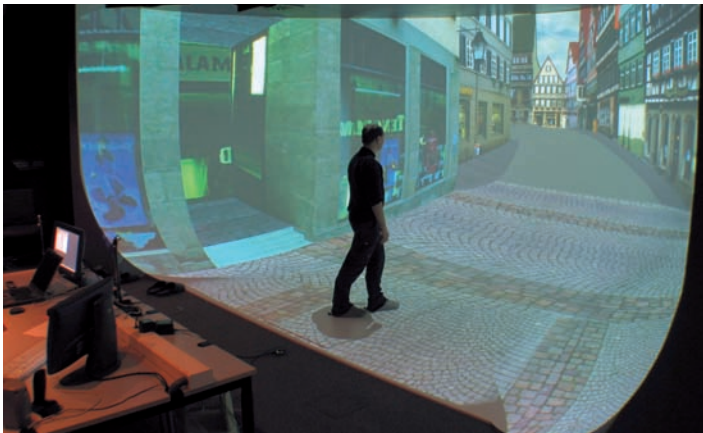#) openWARP²-LC

The perfect Tool for Geometry Correction

) DESCRIPTION

The field of application for VR systems has been widened, from the mere representation of three-dimensional images up to the creation of multi-functional interactive workstations. The multi-media presentation of research results or prototype models is becoming increasingly important. These new tasks which combine virtual reality and the presentation of multi-media content constitute a new challenge to the technology of VR systems. eyevis provides the ideal technological platform for the upgrade of existing installations, as well as for the planning and realisation of new state-of-the-art systems.

With openWARP²-LC, the second generation of eyevis' warping technology, you can display virtually any image on any surface with any projector.

With openWARP²-LC it is possible to build highly flexible and cost effective multimedia presentations, video installations and virtual reality systems.

openWARP²-LC is one of only a few devices on the market which allow uploading and performing geometry corrections within a few frames. Therefore it is possible to build high performance interactive simulations with tracked observer systems.

The extremely fast image processing (delay < 1/4 of a frame) allows the usage in high end and time critical simulator environments.

) COMFORTABLE IMAGE WARPING

The completely new designed system architecture and the new powerful warp-core technology enable high-quality image corrections. Thanks to the innovative "Resolution pass-through Technology", the device can be easily integrated into any system environment without the necessity to configure the desired resolution.

Geometry correction for projection on any shape or surface –
curved, bended or spherical screens and anything in between.

) openWARP²-LC

) eyevis
PERFECT VISUAL SOLUTIONS
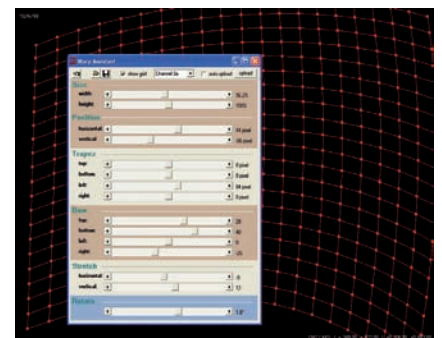
The perfect Tool for Geometry Correction

) GEOMETRY CORRECTION FOR ANY SCREEN

The openWARP²-LC alignment tools feature a toolset for calibration of single- or multi-channel display systems, whose projection channels need geometry correction due to screen shape or projector placement.
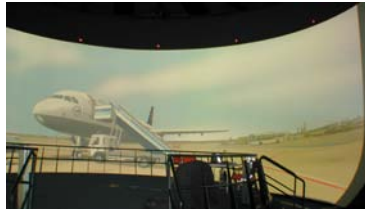
) TECHNICAL SPECIFICATIONS

-) Single channel DVI Warping Unit
-) Input / Output: single-Link DVI-D for Resolutions up to WUXGA (1920x1200@60Hz) or 2k (2048x1200@60Hz)
-) Resolution pass-through Technology (automatic resolution configuration)
-) Bandwidth: max: 165MHz pixel clock
-) Communication:
  - USB-RS232 to control PC or
  - RS232 / LAN with additional communication board
-) Low latency (adjustable to less than ¼ frame of fixed setting 1 frame in double-buffer mode)
-) High precision geometry correction (2 times 3th order polynomial), warping performance depending on resolution
-) Advanced filter kernel for high quality image processing
-) Interactive image warping
-) Image Flip horizontal/vertical
-) Weight: 1.25 kgs
-) Dimensions (LxWxH): 25.4 x 21.0 x 7.0 cm

) OPTIONAL 19" RACK INSTALLATION

Optional 2HE installtion frame for the installation in an 19" rack. Available for one or two devices per installation frame.

88mm
482mm
45mm
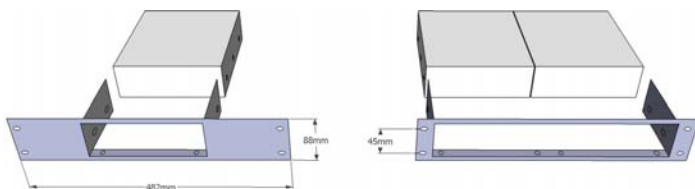
) COST-EFFECTIVE PAY-PER-CHANNEL SOLUTION

openWARP²-LC is a cost-effective alternative to the openWARP² system, where simple geometry corrections are needed. Compared with the more powerful openWARP² system, the openWARP²-LC provides a limited performance. The LC system is a first choice for stereo-projections where two projectors have to be perfectly aligned, even when the projection surface is curved.

The openWARP² designer software provides an easy-to-use GUI which enables comfortable configuration for the warping of single or multiple channels.

In addition to the functionality to realize geometrical corrections, the openWARP²-LC also provides the possibility to scale an input signal on several screens of a modular video wall to achieve one large image. This scaling is processed fully synchronised for all channels, so there is no offset in the image caused by desynchronised signals, which is especially important with fast moving image content. In the same process it is possible to eliminate overlapping areas or the bezels of the displays.

The new openWARP²-LC device is a much more flexible solution compared with solutions embedded in projectors or image generators. openWARP²-LC can be combined with any projection device on the market. Of course eyevis provides appropriate high-end projectors for best compatibility.

Input Signal

EY-1/4-DVI Splitter

openWARP2-LC   openWARP2-LC   openWARP2-LC   openWARP2-LC

Fully synchronised matrix signal   Fully synchronised matrix signal   Fully synchronised matrix signal   Fully synchronised matrix signal

2x2 Video Wall

Fully synchronised display of all input channels without image offset

ISO ZERT • DIN EN ISO 9001
ÖKO ZERT • DIN EN ISO 14001