

VIDE
VIRTUAL INTERACTIVE
DEVELOPMENT ENVIRONMENT



VIDE

The company provides state-of-the-art simulation, modelling and training solutions with a wide range of products and for an array of applications. The Virtual Interactive Development Environment (VIDE) delivers professional interactive modelling and 3D conceptual engineering, bringing cutting edge design tools to bear on your products throughout their project life cycle.

From inception, through successive design reviews, to end product sales and marketing, our specialist engineers will support you in achieving low cost, low risk engineering solutions. Our low cost solutions dramatically de-risk engineering projects ranging from single items to complicated system architectures, allowing you to design and manipulate your product in real time within the virtual world before any physical work is undertaken.

We have sophisticated facilities that support this service including a cinema style 3D presentation suite. Fully transportable equipment, both display and immersive, allows interaction with individual system components in simulated environments, offering the user total privacy, security and convenience.



Exploded interactive 3D product models provide the ability for an interactive review.

A wide range of data types can be brought together within the 3D development suite to produce a fully interactive environment. All operations staff are fully security cleared and the extent of their involvement in a project is customer defined.

KEY FEATURES

- Support to bid and requirement definition
- Low cost, low risk engineering solutions
- Visual rapid prototyping
- Fast CAD data conversion with quick update capability
- Real time interactive 3D CAD models
- Pro Engineer based but accepts neutral file types, including .step and .igs
- Studio Max design software
- Effective concept communication tools
- Fully immersive “virtual reality” technology
- Sales and marketing materials
- Secure, standalone data storage not linked to company network
- Fully transportable system
- Expert advice and support.

STEREO PRESENTATION

The Virtual Battlespace Theatre (VBT) uses a cinema standard projector to rear project stereo 3D images onto a large screen. This provides an identical view of the image for all users regardless of where they are in the room.

The addition of stereo imagery gives depth perception and spatial awareness to the audience, allowing designs to be fully understood by all. This improves design reviews, project team understanding and presentations to customers.

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A large group of people can view and thoroughly explore a design with operator manipulation giving the opportunity to see how components interact with each other. This ensures a common understanding of the review subject within the overall design.

TOTAL IMMERSION

Spatially tracked head mounted stereo displays and hand controllers allow operators to be immersed within the virtual environment. It can be used to assess the operability of your product within its host environment and to evaluate Human Factors.

SYSTEM BENEFITS

- Accuracy
 - Models created from engineering CAD data are dimensionally correct.
- Authenticity
 - Using both immersed users and CAD defined “manikins” allows design verification of Human Factors.
- Platform Integration
 - Product can be virtually installed in its intended position allowing user interaction precisely as it would in the real world.
- Collaboration
 - Multiple users co-located within a single virtual environment, across sites and international borders.

VIRTUAL TRAINING

The same benefits enjoyed within the design process can be exploited within the training environment. From manufacturing to end user familiarisation, from single item to complete systems, consistency of data brings a fuller understanding along with efficiency saving.



Platform integration viewed in operating environment.

MARKETING MATERIAL

VIDE engineers can also provide promotional material. This could include stereo 3D presentations using interactive animated sequences as well as Interactive 3D models and presentations viewable on any computer. Realistic computer generated images showing off your product as it would look integrated within its platform and working in its intended environment created using market leading graphic design software. Stereo 3D presentations can be conducted at either our VBT or at any suitable site utilising our transportable system.

COST EFFICIENCY

Cost benefits can be seen across the full lifecycle of a project.

- Clear definition of requirement capture within bid team and onto customer
- Common understanding of issues and solutions by full IPT via interactive review
- Visual rapid prototyping
- Virtual prototyping minimises costly rework after design release
- Continuous data use and tool suite from conception to delivery
- Instant transfer from CAD to Visualisation
- Fast incorporation of change
- Common data libraries.



High definition 3D models of photographic quality are suitable for customer presentations.



Sensor coverage assessment within a typical environment.



leonardocompany.com

For more information please email infomarketing@leonardocompany.com

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