

ESI brings the serious fun to work

Virtual Reality (VR) is the most innovative technological trend of our times... Coming from the video gaming industry, opening new doors for interactive entertainment, VR is now taking over the business of manufacturing. The first image coming to your mind when hearing about Virtual Reality most likely involves the iconic Head-Mounted Displays (HMD), those kinds of headsets which are popular for virtually enjoying ‘the experience of your life’. Today, HMDs are not only promising the ultimate fun-filled experience, they also provide a serious use for the working environment: **Engineering at its best!**

Many Computer-Aided Design (CAD) and Finite Element Analysis (FEA) providers are racing to find a way to leverage the technology, but those solutions end up being little more than a monitor that you strap to your face. Software solution provider [ESI Group](#) has already been applying Virtual Reality to industrial uses for years. Traditionally used to drive projection system Powerwalls or CAVEs, ESI’s latest release is now applied to these consumer and professional class HMDs.

[ESI IC.IDO 11.1](#), ESI’s new Immersive Desktop application, delivers “Virtual Reality for Engineering”. With this HMD bundle, IC.IDO users are now able to conduct immersive simulation of the assembly, disassembly, serviceability, and accessibility of their products at full scale-not just as a 2-D projection on their desktop monitor.



Image: Assembly process review conducted using ESI IC.IDO 11 with an HTC Vive head-mounted display (HMD)

“ESI IC.IDO is the most advanced solution within the industry. Running our software on HMD provides the opportunity to have an interactive review and supports to understand integration issues from the beginning,” says **Dev Karsan**, Project Engineer for Virtual Reality at ESI.

Engineers now have the power to import CAD files and simulate their models using real time physics and computed solid mechanics. They can interact with their models naturally with their arms and hands — not just their mouse and keyboard.

The ESI IC.IDO HMD bundle will enable users to:

- Experience their CAD models in an immersive environment on HMD
- Interact with their designs in immersive virtual reality using hands and arms from a first-person view
- Simulate solid mechanics behavior in real time, with continuous simulation
- Visualize collisions between solid objects during interactive assembly, disassembly, or service
- Create animated immersive Virtual Reality content for playback in future immersive sessions
- Participate in multi-user and/or multi-site reviews of shared immersive sessions

Explore ESI IC.IDO’s [website](#) and [YouTube channel](#) to see how engineers over the world are using Virtual Reality to evaluate their designs virtually, understand integration issues, and make decisions. Contact **Eric Kam**, *Product Marketing Manager* at ESI, to see how VR can be integrated and support your business to be at its best.

Eric Kam – Product Marketing & Community Manager

Mail: eric.kam@esi-group.com

Telephone: +1 248 381 8040