

Intelligent Light Introduces FIELDVIEW eXtreme High Performance CFD Post-Processing Software for Virtual Environments and Scalable Systems

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RENO, Nev. -- CFD Engineers Increase the Impact, Return on Investment, and Productivity of HPC and Virtual Environment Investments Using FIELDVIEW eXtreme

Intelligent Light chose the AIAA Aerospace Sciences Meeting as the venue to announce FIELDVIEW eXtreme, the industry's most complete, powerful, and accessible CFD post-processing and visualization solution for use in virtual environments. FIELDVIEW eXtreme will allow CFD engineers to exploit the most powerful, multi-pipe, parallel systems and visualization environments, bringing them to the forefront of their organization. FIELDVIEW eXtreme fits right into users' existing workflow because users will find all the functionality they depend on in FIELDVIEW is available in FIELDVIEW eXtreme. Users and their data can move seamlessly and comfortably between their desktop and virtual environment.

FIELDVIEW eXtreme is being demonstrated using the Viz3D(TM) display from VizEverywhere, SGI and industry standard tracking and navigation hardware. With this new software and hardware solution, conference attendees can explore complex FIELDVIEW data as they never have before.

“This is the first CFD post-processor to bring the complete set of capabilities from a desktop tool to a virtual environment,” said Allen Bierbaum, CEO of Infiscape. “FIELDVIEW eXtreme enables more organizations to take advantage of immersive environments to obtain a deeper understanding of their data. By introducing this capability, Intelligent Light is allowing engineering organizations to increase the return on their visualization investments.”

Increasing the Impact of CFD

Large scale, immersive visualization empowers people to work collaboratively and intuitively. It is also a powerful tool for sharing insights about complex phenomena among non-experts. Virtual reality facilities and large-scale visualization are being used for exploring simulation results and increasingly has become a favorite tool of senior management in reviewing projects and making decisions.

According to Jay Horowitz, computer scientist at NASA's Glenn Research Center, “FIELDVIEW eXtreme empowers CFD engineers to better understand complex and voluminous data, and will enable them to share their models with associates/managers who may not be domain experts. Simulations in virtual reality can present good science in an exciting and accessible way.”

“Customers have been developing VR capability within their engineering organizations for some time now, but the investments have seldom affected the teams responsible for fluid flow engineering,” said Steve Legensky, founder and general manager of Intelligent Light. “FIELDVIEW eXtreme will deliver the power and ease of use that customers have been asking for and will help CFD Engineering come to the forefront of their organization's focus.”

A No Compromise Application for CFD Professionals

Intelligent Light set out to deliver an application with unmatched power and ease of use ... an application that would exploit the latest parallel rendering technology and allow existing FIELDVIEW users to achieve new insights and breakthrough productivity without compromising desktop functionality.

CFD Researchers at NASA Glenn Research Center have been impressed with the results:

“Fieldview eXtreme makes challenging models easier to interact with and interpret,” said Dorothy Carney, visualization programmer at Glenn Research Center. “To be effective, scientific visualizations at NASA must improve understanding, enable communication, and enhance decision making. A beauty of Fieldview eXtreme is that researchers can comfortably move data from their desktop into a virtual reality environment, for added detail and depth, without having to learn a new software package.”

Mark Stewart, Ph.D., of QSS Group Inc., and a contractor at NASA's Glenn Research Center, continues, “I have been impressed with the sense of the flow field that I get using FIELDVIEW eXtreme in our Fakespace RAVE. The scale, immersion, and interactive navigation allow me to quickly understand both overall flow and significant flow details. When working with a group, insights can be quickly and clearly communicated using FIELDVIEW eXtreme. As a FIELDVIEW user, I was immediately productive when moving from my desktop to the FIELDVIEW eXtreme environment.”

“Combining power and ease of use has been a hallmark of FIELDVIEW for years, so it is essential that we respect our large and established user base and avoid forcing major changes to our customers’ workflows. FIELDVIEW eXtreme will provide users with advanced functionality without sacrificing usability,” Legensky emphasized.

A Solutions Focus

“Intelligent Light recognizes our responsibility to ensure that the application is tested and supported using a wide variety of system, display, and interface products,” continues Legensky. “To ensure our customers’ productivity, we have worked closely with leading providers of display and interface devices, including tracking hardware.”

Supporting the value of the vendor collaboration, Jeff Eisenhard, vice president, sales and marketing for VizEverywhere said, “We are excited by the potential of high quality, workflow-friendly software like FIELDVIEW eXtreme to be paired with the VizEverywhere line of high quality, cost-effective stereo displays.”

More information about FIELDVIEW eXtreme can be found on the Intelligent Light website at www.ilight.com.

About Intelligent Light

Intelligent Light, located in Rutherford, New Jersey, was founded in 1984 with a mission to provide the scientific and engineering community with the best possible tools for understanding data and communicating results. The company provides CFD post-processing and big data visualization capability, under the industry leading FIELDVIEW brand, to thousands of HPC users in the aerospace, automotive and general manufacturing industries. Their unique development team is composed of CFD experts, computer scientists, and visualization experts focused on listening to clients and delivering products that meet their needs.

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