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Photon Engineering, LLC Announces FRED™ Turbo and FRED™ 7.0.0

TUCSON, AZ., December 17, 2007 -- Photon Engineering, LLC announces Release 7.0.0 of its optical engineering software FRED 7.x series. FRED is an advanced 3D CAD optical engineering software program capable of simulating the propagation of light through virtually any optical/illumination system.

The FRED 7.0.0 release features several major enhancements to FRED's raytracing speed and modeling capabilities. FRED 7.0.0's multi-threaded raytracing is substantially faster tracing imported CAD geometry and large surface count systems through enhancements to the multi-threaded memory manager. Raytrace speeds on quad and dual-quad core computers now average 3X and 6X respectively when compared with single CPU raytracing. Further improvements include the direct import of "Optilayer" thin film prescriptions, a new embedded scripts folder that embeds directly into the FRED's document and the capability to define 12 different dispersion formulas to define custom glass materials.

Photon Engineering, LLC is a privately held company based in Tucson, AZ, and was founded in 1997. Photon Engineering is committed to providing the highest quality optical engineering services and software to its customers. Photon Engineering has worked with over 150 customers world-wide on a very wide range of optics-related projects including light pipes, illumination systems, LCD projectors, backlights, space satellite systems, laser scanners, tactical

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optics, zoom lenses and more. For more information contact sales@photonengr.com or visit the company's Web site at www.photonengr.com.

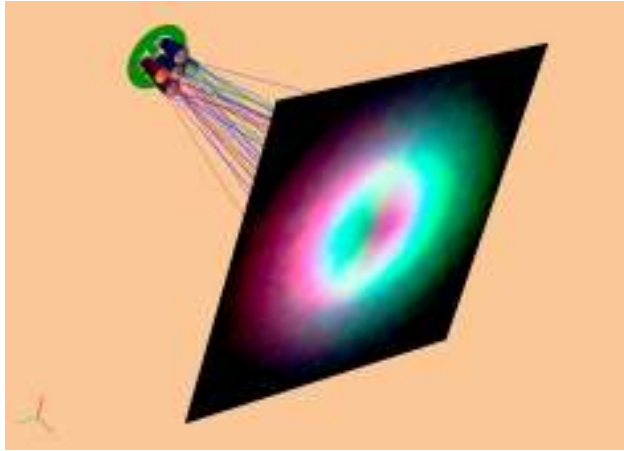


Figure 1 – Graphic showing FRED's capability to trace millions of rays using multi-threaded algorithms to simulate multiple LEDs and perform complete color analysis.

FRED is a trademark of Photon Engineering, LLC

Optilayer is a product of OptiLayer LTD.

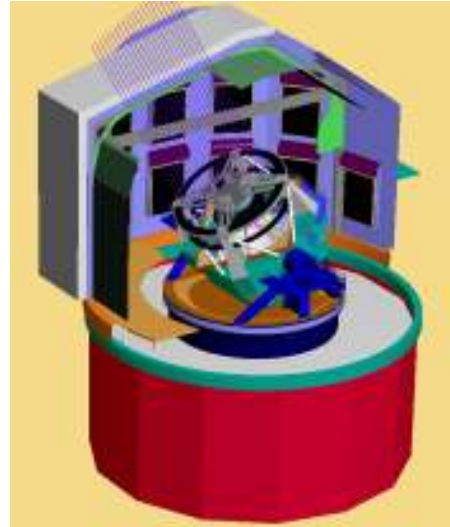


Figure 2 – FRED's enhanced capability to raytrace large CAD subassemblies successfully allowed NOAO to perform a stray light and ghost analysis of the Large Synoptic Survey Telescope (LSST)