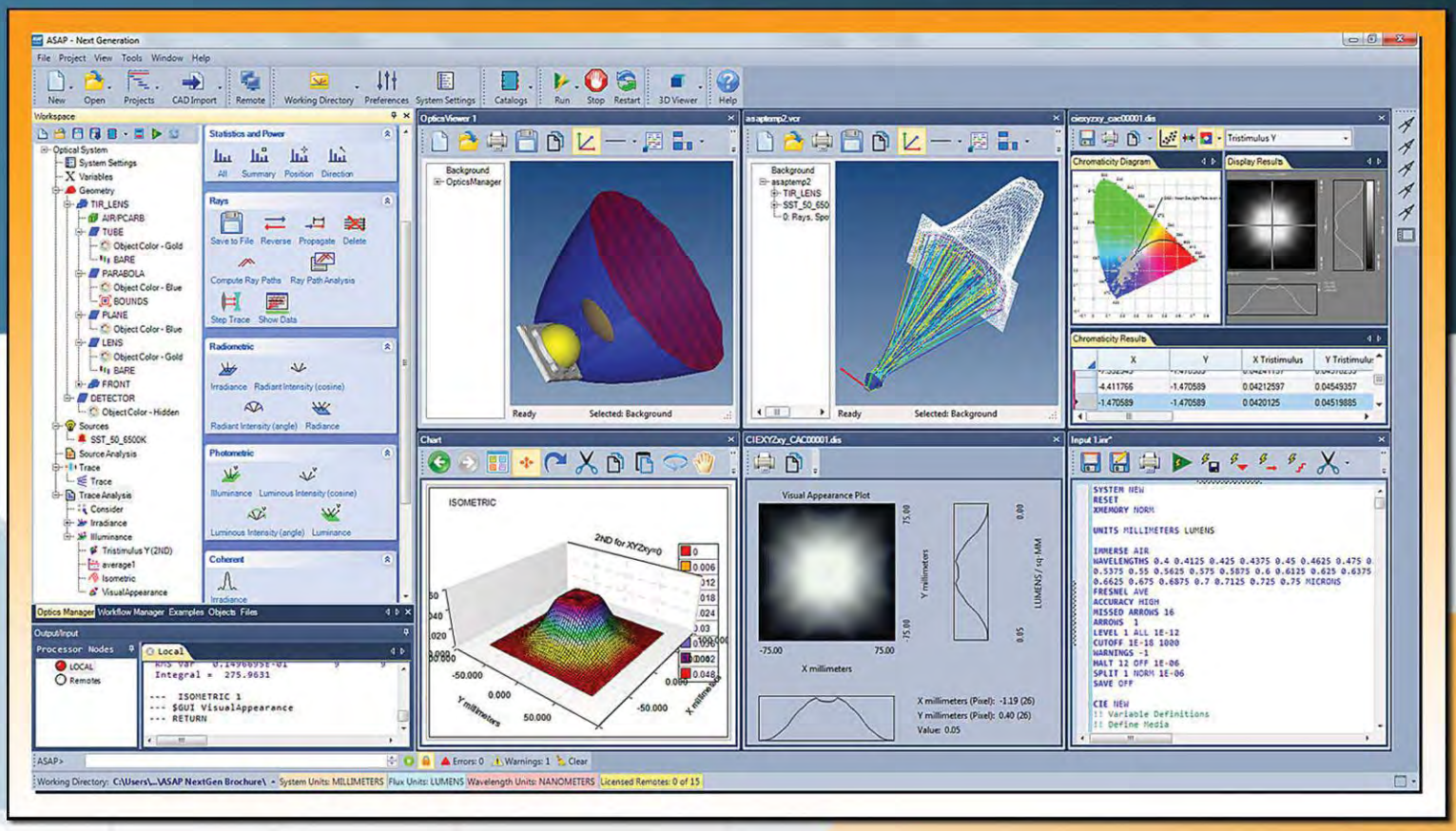
LANIKA SOLUTIONS

ASAP® NextGen

The Industry Standard in Optical Simulation Software

ASAP NextGen offers a novel paradigm in optical simulation software using entirely new Manager and Viewer based interfaces coupled with parallel and distributed processing.



ASAP NextGen represents an innovative, fast, and intuitive simulation environment for novice ASAP users while preserving, improving, and expanding what is familiar to experienced ASAP users.

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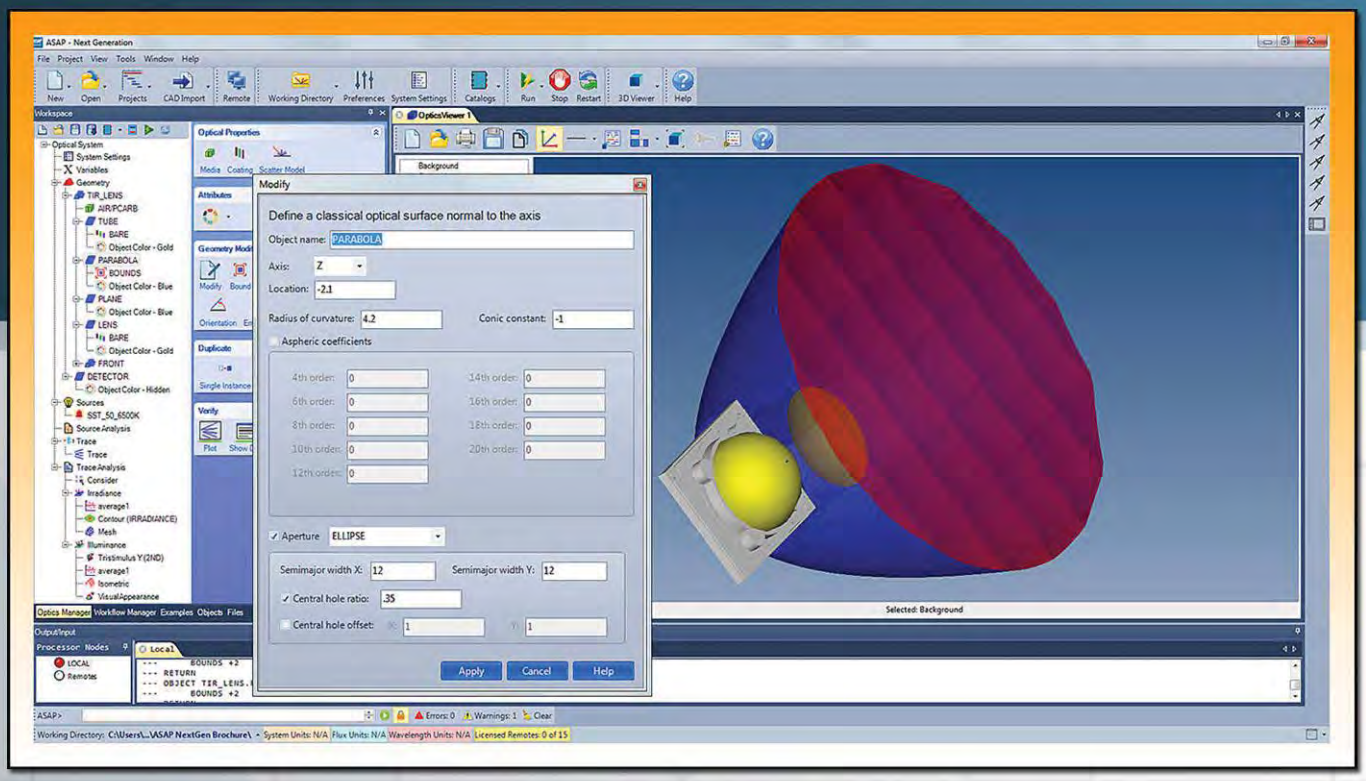
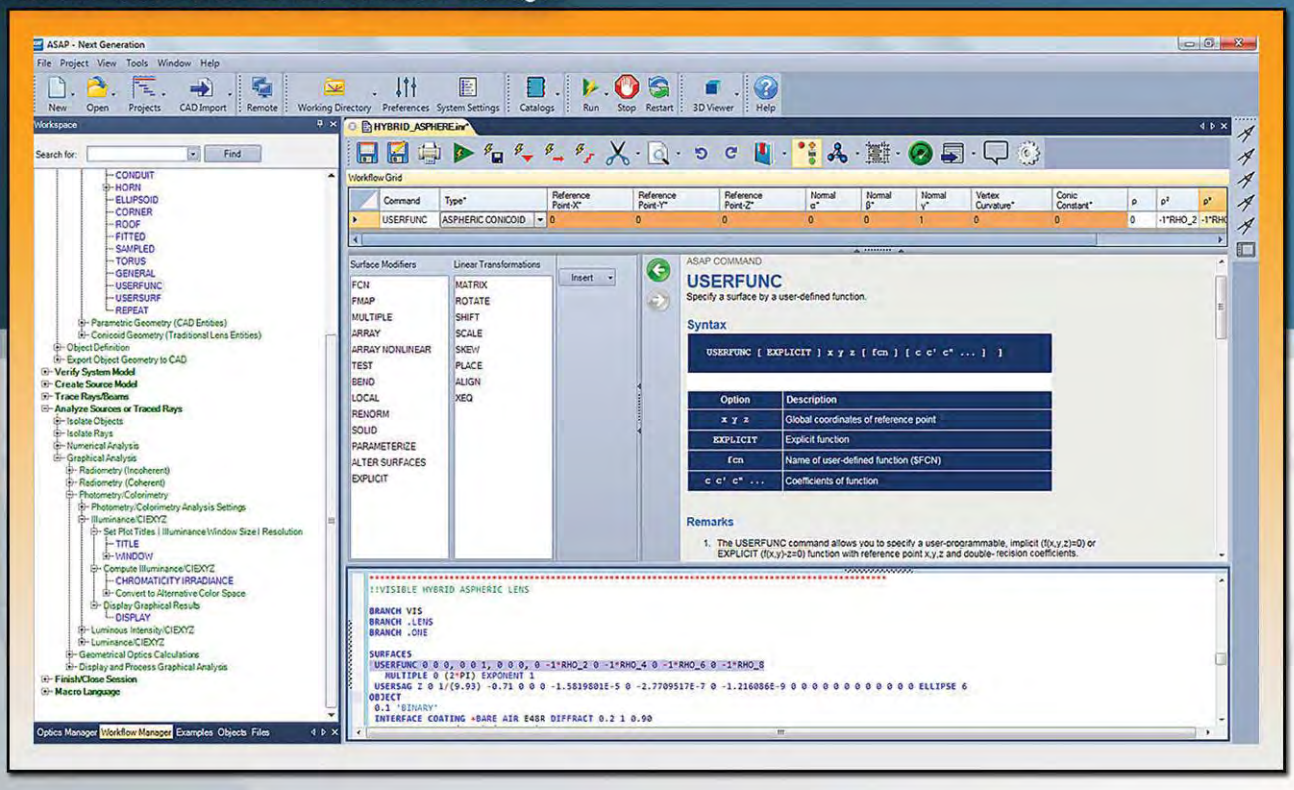
Breault Research

If you are a new or infrequent user, NextGen's **Optics Manager** is designed to easily manage ASAP's 4-Step Process (System, Source, Trace, and Analysis). Use a CAD tree-like structure with uncomplicated and convenient input menus and catalogs for materials, lenses, and sources while the integrated, persistent 3D Viewer automatically updates your system geometry as you design. Entire simulations can be performed within the Optics Manager without writing a line of script. The Optics Manager also automatically creates a working script for you to access ASAP's powerful optical programming language for even more complex simulations.



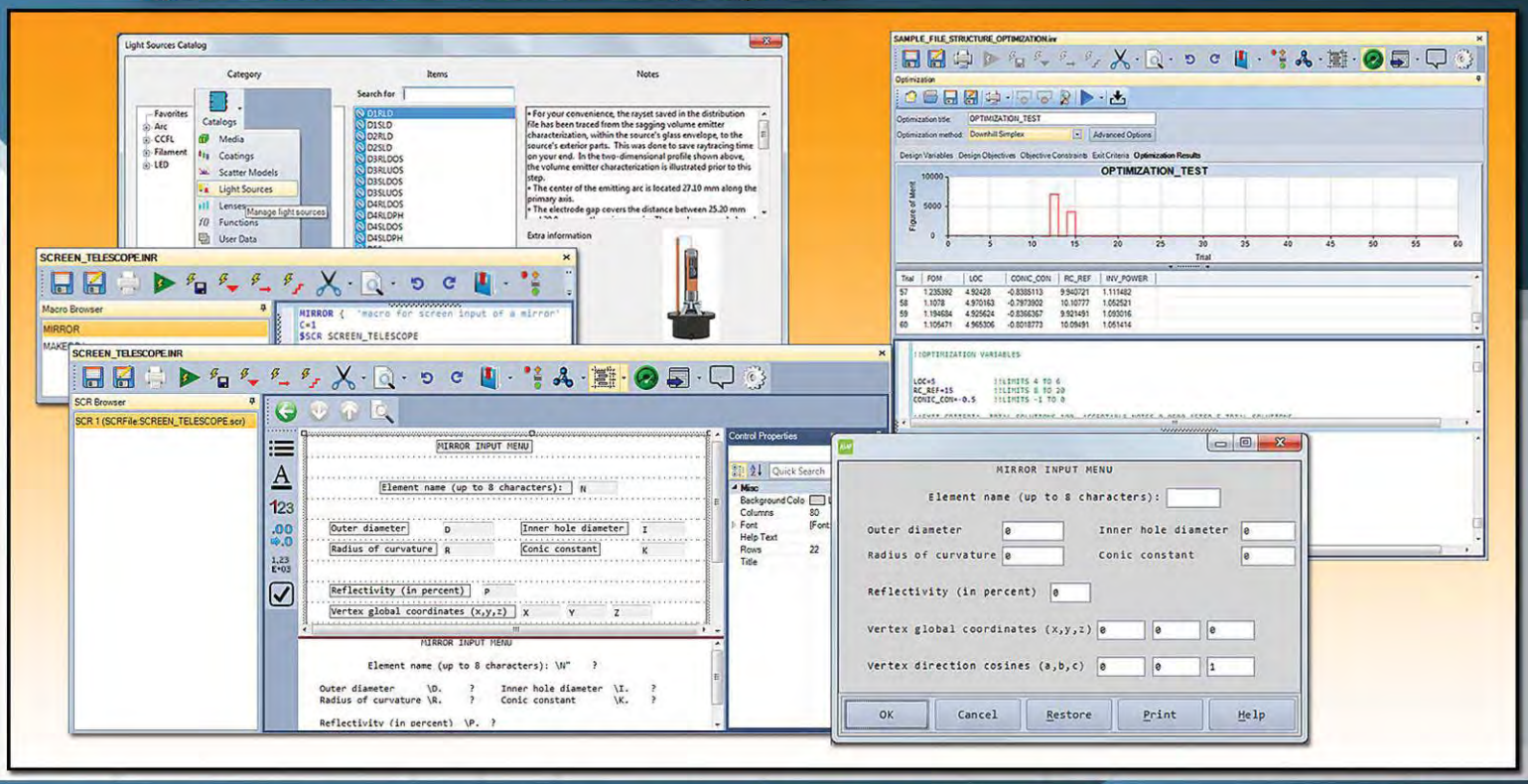
NextGen's **Workflow Manager** is designed to provide you with a more convenient, quicker, and easier approach to scripting. Use the detailed workflow tree structure or the search field to locate the command or macro you need for your script and simply fill in the relevant command parameters in the Workflow Grid fields. You can then insert them at the cursor location in the script, the Command Bar, the clipboard, or run the command. Context sensitive help topics show the exact detail you need to assign associated command parameters. Create INR input directly from the Workflow Manager or first create a script file in the Optics Manager for further elaboration in the Workflow Manager.



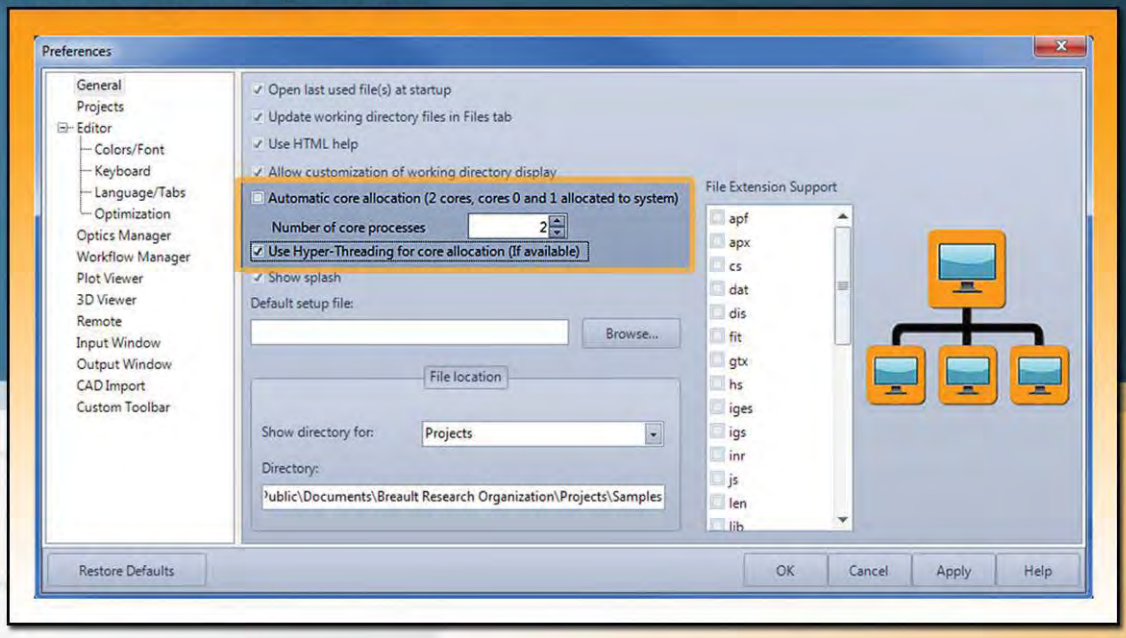
ASAP® NextGen

NextGen offers other Managers to efficiently administer your workflow.

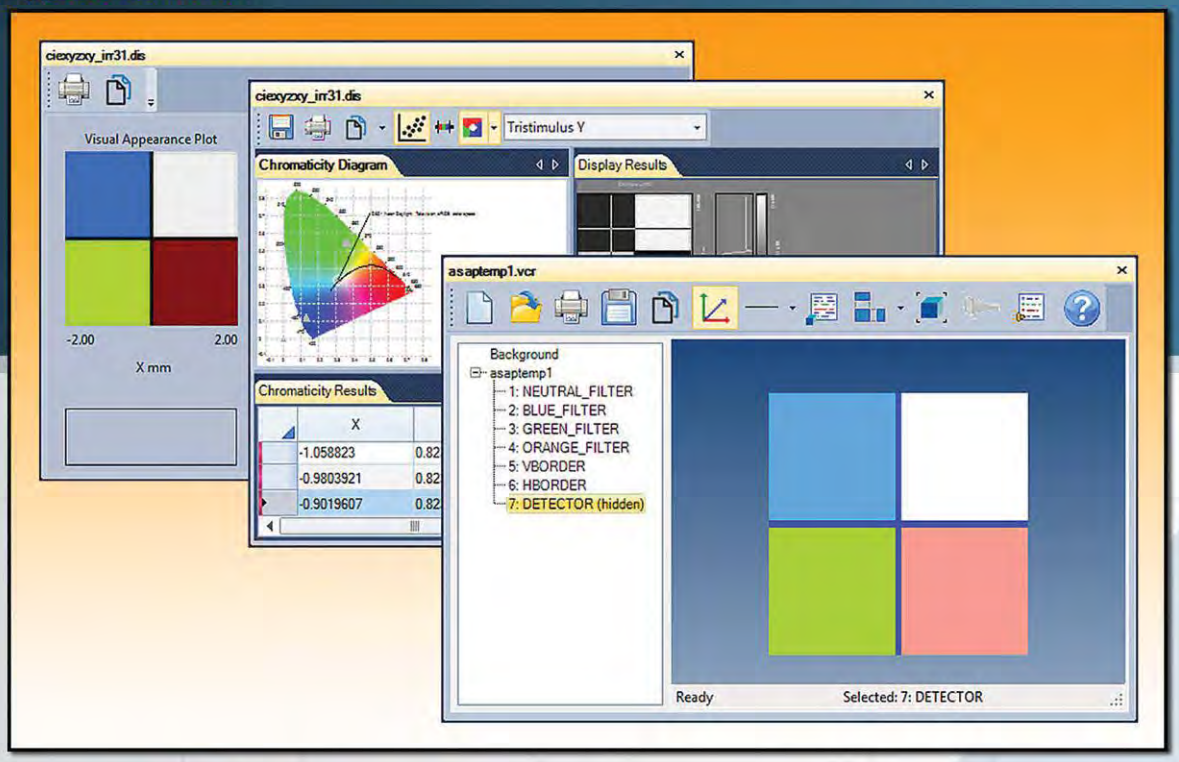
- **Catalog Managers** - choose manufacturer and measured data for light sources, lenses, media, coatings, scatter models, functions, and variables to input data in any of the NextGen user interfaces.
- **Macro Manager** - edit individual macro content independent of the script file.
- **$SCR Manager** - a customizable graphical user interface allowing you to create application specific tasks through the programing language.
- **Optimization Manager** - a consolidated means of optimizing your optical systems through design variables, goals, objective constraints, exit criteria, and multiple algorithms.



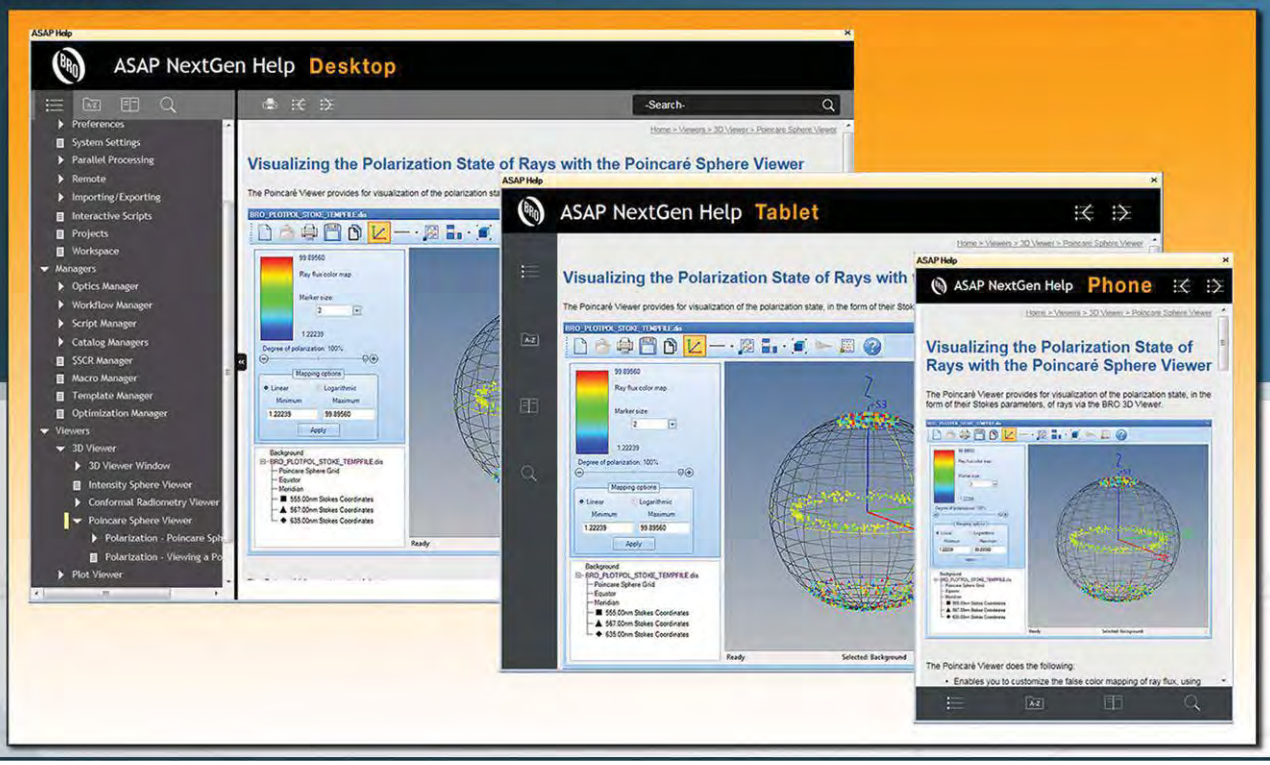
Another new paradigm for ray tracing speed and efficiency - **ASAP NextGen with CoreMax** technology automatically runs parallel and remote distributed processes on all local PC physical cores, as well as on all physical cores on up to five remote ASAP licenses installed on your LAN. Twice as many physical cores means twice the speed, which is an industry first and makes ASAP NextGen one of the fastest ray tracers with the highest level of computing power of any commercial optical design software.



Viewers in NextGen provide new and improved visualization tools for a wide variety of data including system geometry and ray traces, distribution data files, Poincare sphere polarization results, conformal radiometry results, CIE colorimetry results, and now visual appearance. Easily view kernel created tristimulus values, photometry, chromaticity coordinates, and correlated color temperatures in the CIE Viewer. Examine the visual appearance of converted CIE XYZ tristimulus values to a standard RGB or SRBG space in the Visual Appearance Viewer.



The new Adaptive Navigation Help System in NextGen provides viewing Help from desktop monitors to mobile devices and consists of an expandable table of contents and an index/glossary with focused search capability. Each found entry displays a topic name, several words from the topic body content, and the full relative path of the topic. Search autocomplete is also now available showing suggestions as you type into the Search field.



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