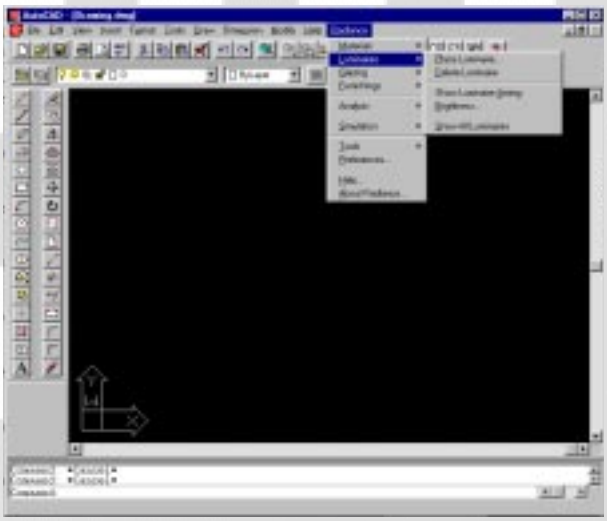
Desktop Radiance 1.0

May 2000

For lighting and daylighting simulations

Address quantitative and qualitative lighting and daylighting issues quickly and easily, using the Radiance lighting simulation and rendering software directly from within AutoCAD. Radiance offers unparalleled accuracy, especially in daylighting computations. To get more information and download a free copy of Desktop Radiance 1.0, please visit http://radsite.lbl.gov/deskrad.



Links to AutoCAD

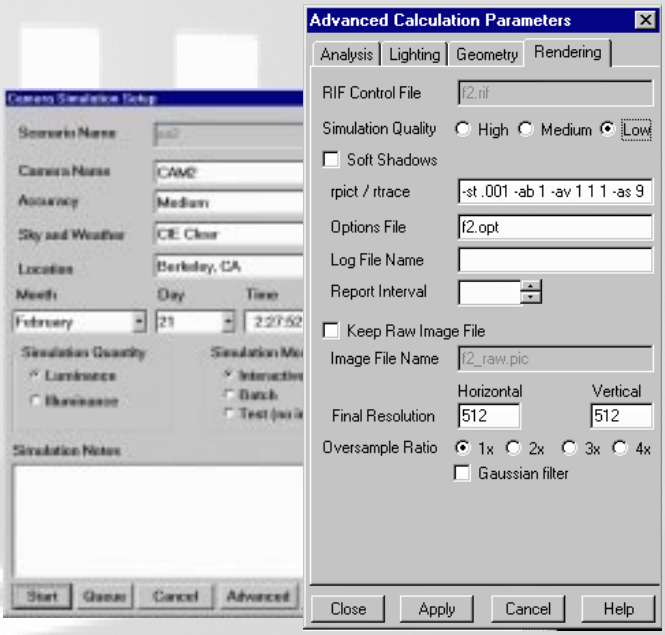
Access all Desktop Radiance functionality through a single menu integrated in AutoCAD R14. Links to AutoCAD 2000 and other CAD systems will be supported in future releases.

Integrated Libraries of materials, glazings, luminaires and furniture

Browse through libraries of materials, glazings, luminaires and furniture and attach them to any surface in the AutoCAD scene.

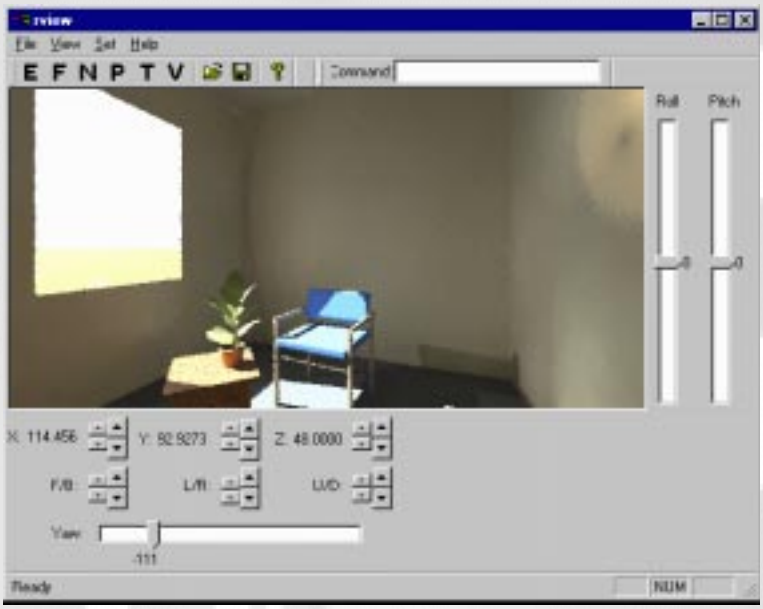
Materials Editor to define and specify custom materials

Define and specify custom materials by selecting color, specularity and roughness from graphic palettes. Editors for glazings, luminaires and furniture will be supported in future releases.



Simulation control interface for quick and easy control of all simulation options

Control all of the Radiance simulation operations, from the most basic (e.g., time of the day and sky conditions) to the most sophisticated (e.g., number of indirect bounces of light and soft shadows).



Interactive rendering to control the simulation while it happens

See the Radiance image while it is generated and control the progress and options of the simulation to best meet your simulation needs as fast as possible.

Image analysis to address quantitative and qualitative issues

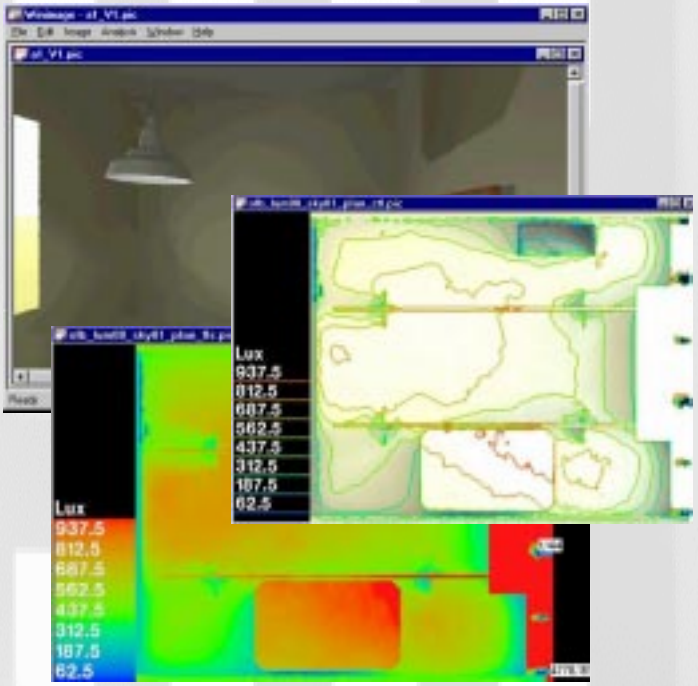
Address quantitative issues by:

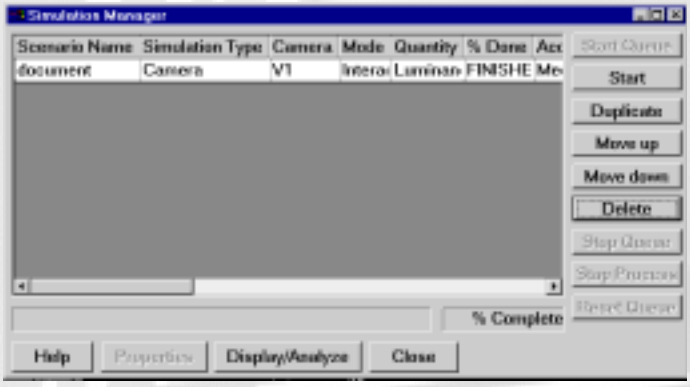
- Displaying light levels through direct clicks on the image.
- Displaying images with superimposed iso-lux lines.
- Displaying images using false color to indicate light levels.

Address qualitative issues by:

- Displaying images at different exposure settings.
- Filtering images (*pcond*) to account for the sensitivity of the human eye.

Save images in a large variety of formats for use in other programs.





Simulation Manager, to manage multiple numbers and types of simulations

Manage and control multiple simulation runs quickly and easily. Duplicate, modify and rerun simulations for any number of different scenarios.

Desktop Radiance is being developed by Lawrence Berkeley National Laboratory, with support from the Pacific Gas and Electric Company, through the California Institute for Energy Efficiency. Pacific Gas and Electric Company's funding is provided by California utility customers under the auspices of the California Public Utilities Commission.