
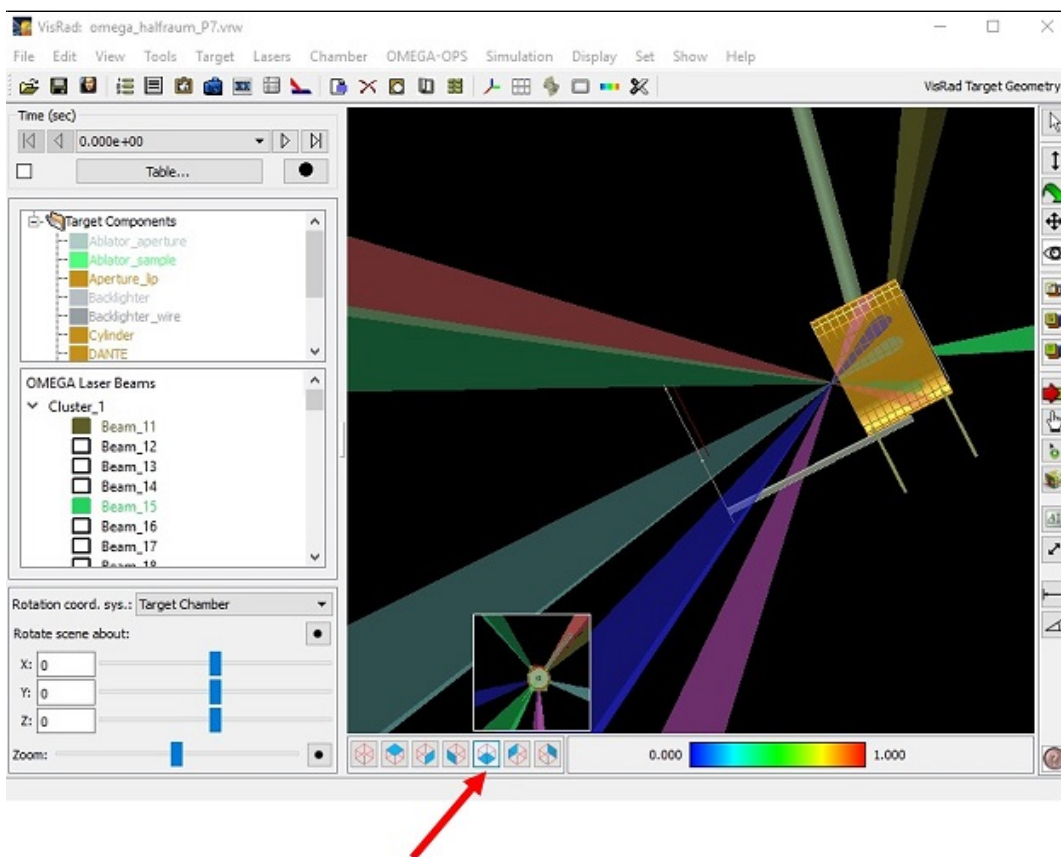
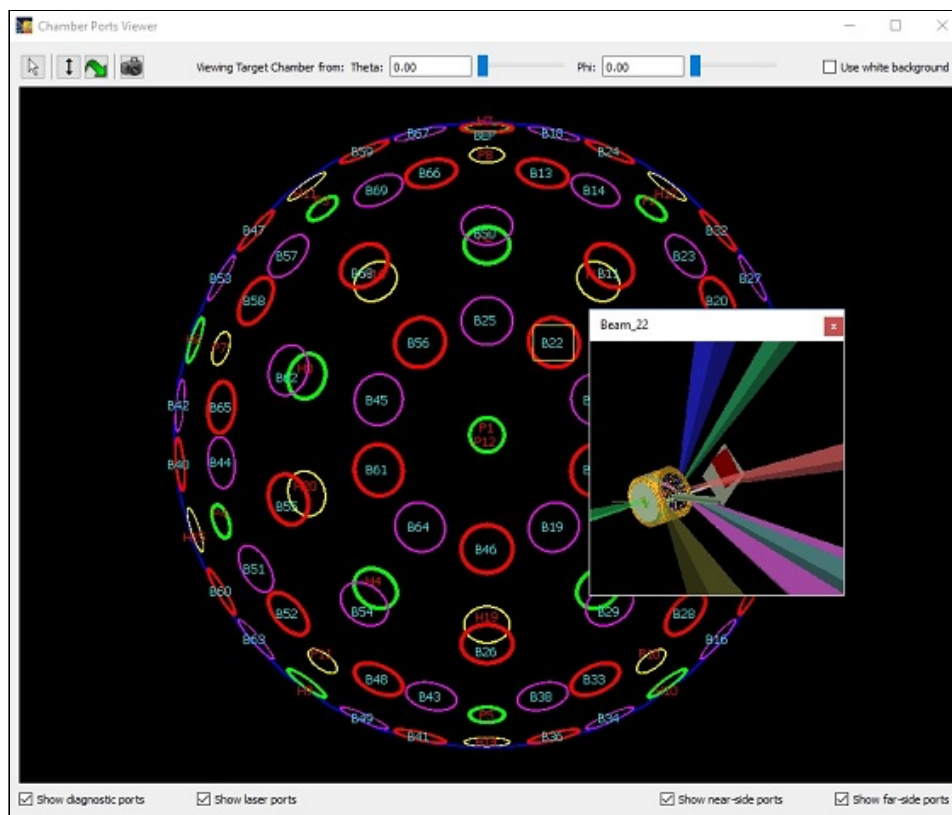


## Revisions for VISRAD 17.1.0

- **Main Window** : Tool buttons have been added to support showing *Engineering Views* (e.g., top, bottom, front, isometric views) in the *Main Graphics Frame*.
  - When holding the mouse over one of the tool buttons (located just below the *Main Graphics Frame*) a preview is shown of that view. When picking on the button, the view in the *Main Graphics Frame* is changed.
  - The reference *Target Component* for that view is the (first) one that is selected in the *Target Components List*. If no target component is selected, the *Target Chamber* is the reference system. (For example, to show the view from the top of a target component, select that component in the *Target Components List*, and hold the mouse over the *Top View* (  ) button.)
  - The *Engineering View* tool buttons can be shown or hidden using the *View | Engineering View Tool Buttons* menu item.



- **Main Graphics Frame** : Rotation of the view can now also be performed by holding down the mouse wheel (or mouse middle button) and moving the mouse.
- **Main Graphics Frame**: When picking on a target component in the *Main Graphics Frame*, the target component is now highlighted in the *Target Components List*.
- **Chamber Ports Viewer**:
  - Tool buttons have been added at the top of the viewer to support zooming, rotations, and previewing views from *Diagnostic Ports* and *Laser Beam Ports*.
  - When in *Preview Mode* (camera icon), when clicking on a port name, a popup showing the view from that port is displayed.



- Laser Beam Spatial Profiles:
  - The ability to turn DPR modeling on is now available for all OMEGA laser beam spatial profiles (*i.e.*, it is no longer restricted to *Uniform* and *Custom Supergaussian* profiles).
  - When importing OMEGA laser beam SRF data:
    - DPR modeling is now turned off when a beam utilizes a DPP.
    - Elliptical beam profile rotation angles are now automatically set based on the specified *Orientation* port.
- Bug fixes:
  - Computing view factors and radiosities on old Windows PCs: The algorithm for allocating memory for view factors has been updated to revert to the old method (used prior to Ver. 17.0.0) when allocation using the new method fails.
  - Fixed problem that occurred when displaying *Beam Spot Overlays* for NIF beams when the blue cone power was *On* and either the green cone or red cone power was *Off*.
  - In *Chamber Ports Viewer*, fixed problem associated with generating positions of *Diagnostic Port* labels.
  - A problem with the aspect ratio in the *Main Graphics Frame* that occurred on Windows platforms using specific graphics cards has been fixed.