

Photon™ – Process, Power & Piping – Exchange



Photo-realistic To-Scale View of As-Built Structures Within a CAD Environment



Full Integration With PDMS, PDS and Microstation



Offers Peace-of-Mind For Facility Design and Planning

INOVA
RealityLINx®

Process, Power & Piping – Exchange

Compare Design to As-Built

A FARO Laser Scanner exclusive, RealityLINx Exchange empowers users to work with scan data directly inside a CAD environment—lending speed and confidence to design creation and verification. Reliable comparisons of as-built data to CAD designs enable users to complete conceptual illustrations from pipe routing to equipment installation. Scan-to-CAD overlay also offers easy location of tie-ins and lighting, instrument and electrical systems.

Workflow-managed Integration

RealityLINx Exchange integrates FARO 3-D imaging data with leading enterprise and CAD software systems such as AVEVA PDMS, Intergraph® PDS, and Bentley® Microstation. This provides centralized access to accurate as-built documentation for design, engineering, lifecycle management and facility management.

Benefits

- ▶ Provides accurate as-built data for centralized plant maintenance, inspection, operations, competency and training.
- ▶ Virtually design new equipment and structural layouts around existing items, all within your favorite CAD environment.
- ▶ Asset database synchronization within the CAD system reflects ongoing modifications throughout the facility's lifecycle.

Scan View

- Users can instantly load the view from the position the scanner was in when the data was collected. The user can then “look around”, take measurements, overlay a 3-D model, “walk” away from the scanner’s eye, move around within the 3-D model space and load other scans.
- Provides a virtual tour of the plant without the time and expense of visiting the plant past the initial data acquisition.

View/Manipulate/Navigate

- Enables designers to accurately route new piping or duct systems.
- Design new equipment and structures around existing items.
- Locate lighting, instrument and electrical systems.
- Precisely locate tie-in or other critical locations.

Search

- Combine all laser-scanned points into multiple highly compressed scan regions for more efficient data management and storage.
- Users work in volumes rather than individual scans.
- Any scan Region can be immediately located, loaded and displayed in the vicinity of a selected object.
- Multiple Regions can be displayed at once.

Data Clipping

- Scan data of objects not important to the project can be clipped from the display or permanently removed from the Region.
- In complex areas, like pipeways or congested corridors, users can slice thin layers of points to precisely locate critical items or possible interfaces.

Create 3-D Models with ‘Model’

With the optional ‘Model’ license, users can select points within the scan and use the Assisted Modeling tools to quickly create complex components or systems, structures, vessels, etc. Objects can be replaced with items from RealityLINx’s custom catalog.

Recommended System Requirements

- 2+ GHz Pentium 4
- 1+ GB RAM
- 50 MB free hard drive space required for software installation
- 128 MB AGP graphics adapter
- Mouse with two buttons and wheel

