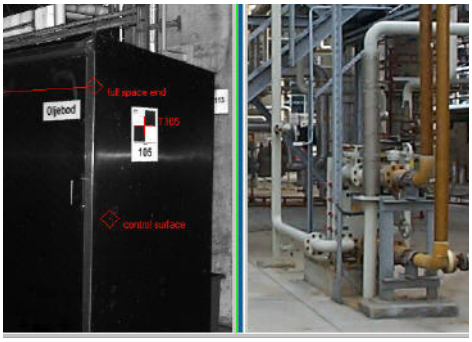
# LFM® Viewer/ViewerLite

**LFM Viewer and LFM ViewerLite are powerful viewing packages targeted at users of laser scan data. They are simple to use and inexpensive software packages, however neither deviate from the high quality for which LFM is known. They allow high resolution laser scan images to be viewed, measured and marked-up and include the tools to extract tie-in information.**




## Key Features

- Multiple innovative BubbleViews can be loaded simultaneously
- Enables zooms, rotations and jumping to centre of scans
- Extensive Mark-up and annotation facilities
- Extensive measurement tools
- Key plans ensure ease of navigation for the user
- With LFM Viewer, CAD Objects can be loaded in BubbleViews
- LFM Viewer has a unidirectional link with Microstation J/V7

## Features and Benefits of LFM Viewer/ViewerLite

### BubbleView Technology

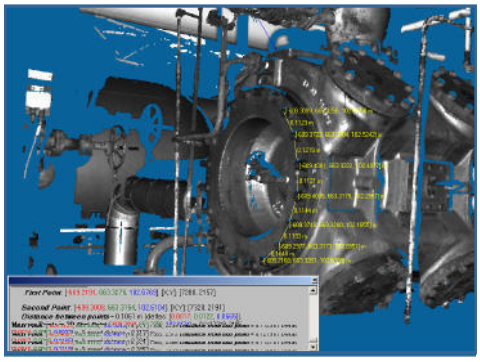
The innovative BubbleView allows true 3D 360° rotation of a high resolution intensity image. Users have found this to be a simple yet effective way of viewing laser scan data. It is such a powerful feature that the user has the feeling of being on-site. The software allows multiple BubbleViews to be loaded simultaneously.

### Mark-up and Measurement Facilities

Extensive Mark-up and measurement facilities can be found in the software. These work in both the BubbleView and 3D View. These facilities enable the user to measure points and distances, to find the centreline of pipes and place tie-in points for extraction to other CAD packages.

### 3D View Functionality

The laser scan data can also be viewed as a traditional 3D points view. Tools to enable zoom, rotation and jumping to the centre of scans are available. Data can be cut, sliced and partial scans selected. The tools ensure maximum functionality and usability for the end user.



*Taking Measurements within 3D Space*

Z+F UK

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## Features and Benefits of LFM Viewer

### Annotation Facility

The annotation facility allows users to place permanentnotes on the laser scan data with explanations, instructions or warnings to other users. Annotations can be grouped into user defined categories for added convenience. When used across large projects, LFM Viewer/ViewerLite is able to connect to SQL databases where annotations can be stored in a secure

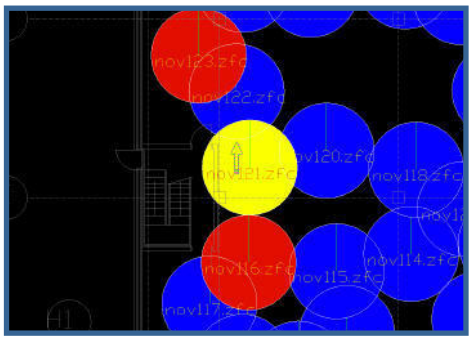
### Key Plans

Ease of navigation throughout the project scene is achieved by the use of key plans. These allow the user to navigate to the exact location of interest. Key plans can be mapped on multiple levels where necessary. This tool enables new users of laser scan data to quickly become comfortable with the use of the laser scan data.

In addition to the functionality contained within LFM ViewerLite, LFM Viewer also includes the following:

### MicroStation Link

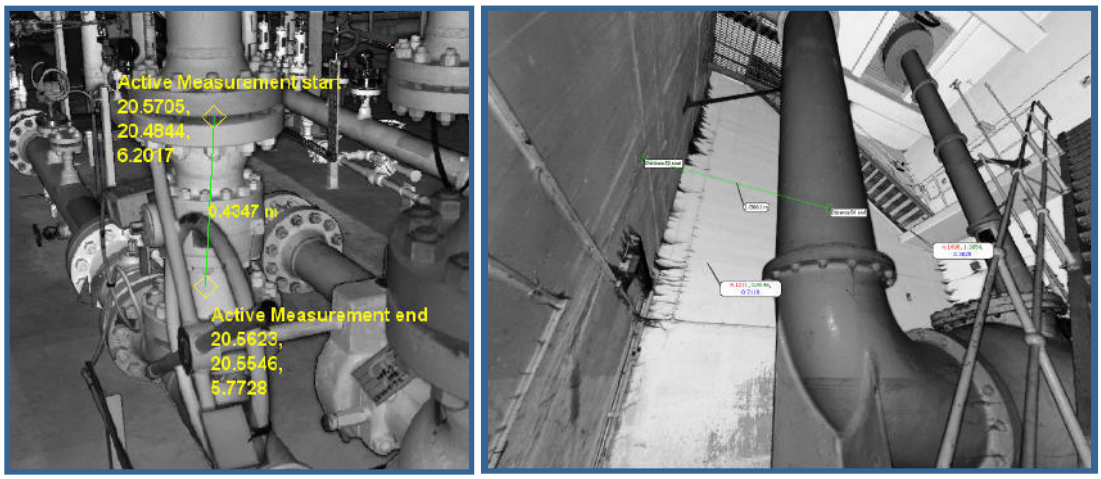
A unidirectional dynamic link between LFM Viewer and MicroStation J/V7, enables the laser scan data to be viewed in this CAD package.



*Key Plans Provide Ease of Navigation*

### CAD Objects in BubbleView

3D solid CAD objects can be imported into LFM Viewer. These can be reviewed and compared against the laser scan data in both the 3D view and also the BubbleView. The user can view the CAD objects against exceptionally high resolution laser data. This is a great tool to present conceptual design studies.




*Measurements Made within the BubbleView*