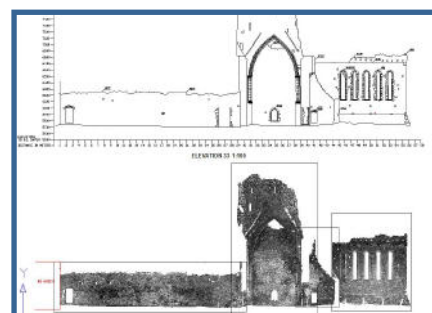




LFM Modeller's main focus is to allow those working within Architecture, Engineering and Construction (AEC) to rapidly create a 3D model from laser scan data in an extremely incremental, intuitive and interactive way. LFM Modeller encompasses all the functionality of the other members of the LFM suite – LFM Register and LFM Viewer/ViewerLite.



## Key Features

- Rapid production of CAD models
- Simple intuitive interface
- BubbleView modelling with modelled objects shown in BubbleViews
- A large range of structural standards are available
- Simple transition of intelligent models into a range of target CAD systems
- Fast creation of plinths
- Multiple export routes into target CAD systems
- Switchable constraints for object fitting
- Support for Colour BubbleViews

## Features and Benefits of LFM Modeller

### BubbleView Modelling

BubbleView modelling is an incredibly fast way of producing 3D CAD models directly from the laser scan data. Modelling from within the BubbleView is highly intuitive and easy to learn. A pipe-elbow-pipe branch can be modelled in just four simple clicks of the mouse. Productivity with this technology is greatly enhanced when compared to previously available software. LFM Modeller also has tools to allow fitting in the more traditional 3D view.

### CAD

Extensive CAD manipulation and editing facilities are provided by LFM Modeller to augment the model quality after the fitting stages have been completed. They allow the user to extend, intersect and manipulate the model to the stage where they are satisfied that the modelling objectives have been reached.

### Quality Assurance Checks

The objects in BubbleView feature allows all modelled objects to be displayed within the BubbleView. This provides the user with immediate visual feedback of what has been modelled and what still remains to be done.

### Structural Elements

Laser scanning customers within AEC have commented that modelling structural elements in some software packages is a slow process and can be 'error prone'.

All this has been turned on its head in the latest LFM Modeller, it is now a very rapid two-click process to fit beams, columns, channels, angles and sections. A large range of standards are included in the standards library.



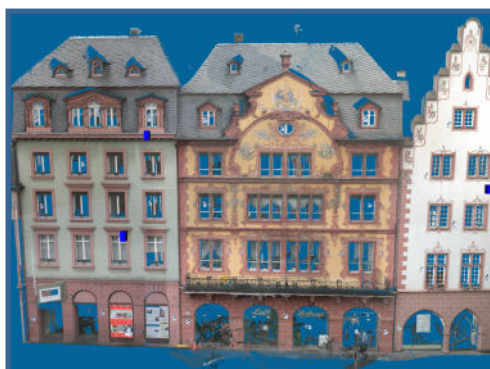
These include:

- AS1163
- ASNZ-3697
- ASTM A6
- DIN1025
- DIN1026
- EN10056
- EN10056-BS4
- EURONORM
- JIS-G

During the creation of the structural components, the user can opt to create the structural elements into an aligned NSEW frame. This feature facilitates the smooth transition into target CAD systems which can only accept structure in an orthogonal NSEW frame.

### Extensive and Extensible Libraries

An extensive library of standard components are available. Where clients require additional library components which are not included, a toolkit is available which allows the user to create their own components.



*Orthophoto generation*

### Orthophoto Generation

During Orthophoto Generation the laser scan data is flattened to a 2D perspective and can then be exported as a PNG or similar file for import into the users preferred CAD package. Once viewed in the CAD package the orthophoto can be used for measurement and scaling which could save the user time and money compared to the production of traditional 2D elevations.

### Plinths

Plinths holding pumps or structural steelwork can form an important part of a 3D model. Fast and flexible creation of plinths has been added which allows them to be rapidly created, moved and rotated into position.

### Key Plans

Ease of navigation is achieved with the use of Key Plans, these allow the user to navigate to their exact location of interest. Key Plans can be mapped on multiple floors where applicable, further adding to the ease of navigation inherent in LFM Modeller.

### Export Routes

Export of the completed CAD model can be achieved by a number of routes. The native .SAT file export allows the model to be exported to many CAD systems. There is also a set of MicroStation cell libraries provided which mirror the included LFM standards libraries. These can be called upon to create a MicroStation .DGN file.

### Additional Features

LFM Modeller contains all the functionality of LFM Register and LFM Viewer/ViewerLite.