

# Simplified Scan to CAD Workflow with Latest Release of Pointfuse



Arithmetica has significantly enhanced its Pointfuse automated point cloud processing software with simplified integration for computer aided design (CAD) software. The new release of Pointfuse Pro also automatically textures the generated 3D models by using RGB, intensity or statistically derived values. Using the original RGB values from the point cloud, the software can now automatically add real-world context to the generated models.

Other new functionality allows users to quickly and accurately generate 3D models and then easily produce 2D plans, elevations or sections for use in project documentation. The software also includes the ability to create scaled orthoimages from the point cloud data that can be used to draw measure or take dimensions from.

With an evaluation version available for free download from the company's website from June the latest version of Pointfuse will be demonstrated at GEO Business 2015, the geospatial trade exhibition and conference, which takes place from the 27-28 May 2015 at the Business Design Centre, Islington, London, UK.

The latest version of Pointfuse makes it faster and easier to visualise large point cloud as textured vector models, commented Mark Senior, Pointfuse development manager but, more importantly, the workflow has been simplified allowing users to create 3D models, 2D line work and scaled orthoimages automatically, quickly and easily. These are then fully compatible with CAD software and modelling packages. The models can also be made to look photorealistic with automatic and accurate texturing, he added.

## Orthoimages

Another new feature in the latest Pointfuse release is the ability to create scaled orthoimages from the point cloud data. These can be used alongside Pointfuse generated vectors, or independent workflows, to produce 2D images using third-party CAD and modelling software. Using a range of new selection tools within Pointfuse these orthoimages can be created from any angle and direction and can be used to draw, measure or take dimensions from.

Pointfuse is a powerful modelling engine developed by Arithmetica, a hi-tech company based at Shepperton Studios. Pointfuse gives professionals an astonishingly fast, precise and flexible way of converting the vast point cloud datasets generated by laser scanners or photogrammetry into high fidelity vector models. Designed for engineers, architects and construction professionals, Pointfuse uses advanced statistical techniques to create vector models which can then be manipulated using any industry-standard CAD system.

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