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FOVEX Measure^{3D} – a revolutionary solution for fast CAD modeling directly in RGB images

Lustdorf / Switzerland, 4 October 2012 - FOVEX Measure^{3D} is a combination of a super fast high resolution 360° panorama camera and innovative software that allow accurate measurement and CAD modeling directly within the images. FOVEX Measure^{3D} is revolutionary because it allows significant savings in field and office work, thereby multiplying productivity.

For this year's InterGeo the FOVEX team presents a major new extension of the FOVEX Measure^{3D} software: direct 3D modeling within high resolution panoramic images. After measuring an object in two images, its shape can be modeled by connecting points directly in the software. Therefore, the CAD model can be completed within the FOVEX software directly and the model as a whole can be exported as a dxf file for any third party CAD software.

Up until today, 3D professionals working in the field of BIM (building information management) needed to create the CAD model through a time-consuming process using different capture devices and software tools. First, a point cloud is created with a laser scanner. This data is then reduced to a CAD model. To add colour and texture to this data, images are captured with a digital camera and stitched to a panorama which is linked to the CAD model. Overall, this is not a satisfactory workflow.

With the new FOVEX solution, the process to obtain a finished CAD model is faster and more consistent. FOVEX uses just one capture device - the FOVEX panorama camera - and one software. The high resolution panoramas provide at the same time data for CAD and the visual information within the scene. Combined with advanced methods of camera calibration and new software algorithms the system achieves an accuracy of on average 1mm in 10 meters.

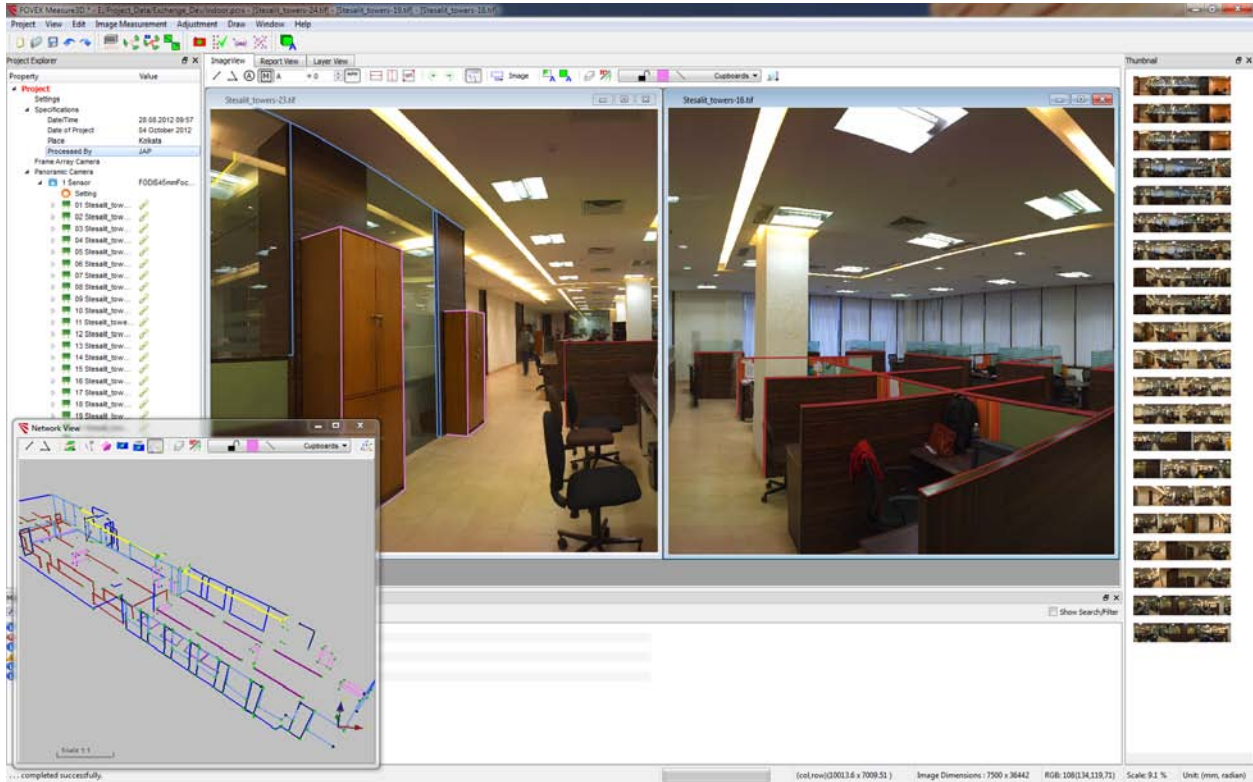
This new photogrammetric solution has a clear benefit for all those applications which require a fast and simplified representation of a scene. This is very important for BIM where a complete point cloud representation of space is more of an obstacle than an advantage. But also for forensic applications, for example crime scene documentation, FOVEX delivers fast results and complete documentation of a site.

FOVEX Measure^{3D} opens a variety of new possibilities to enhance the production line. Viewing 360° images is a natural way for the human being to perceive an environment. The revolutionary FOVEX Measure^{3D} software algorithms give the operator the ability to process data directly from RGB images. In other words, the workflow becomes extremely intuitive, natural and realistic.

FOVEX Measure^{3D} with the new CAD tools is available for sale as of today. For more information please contact the FOVEX team by email or by phone.



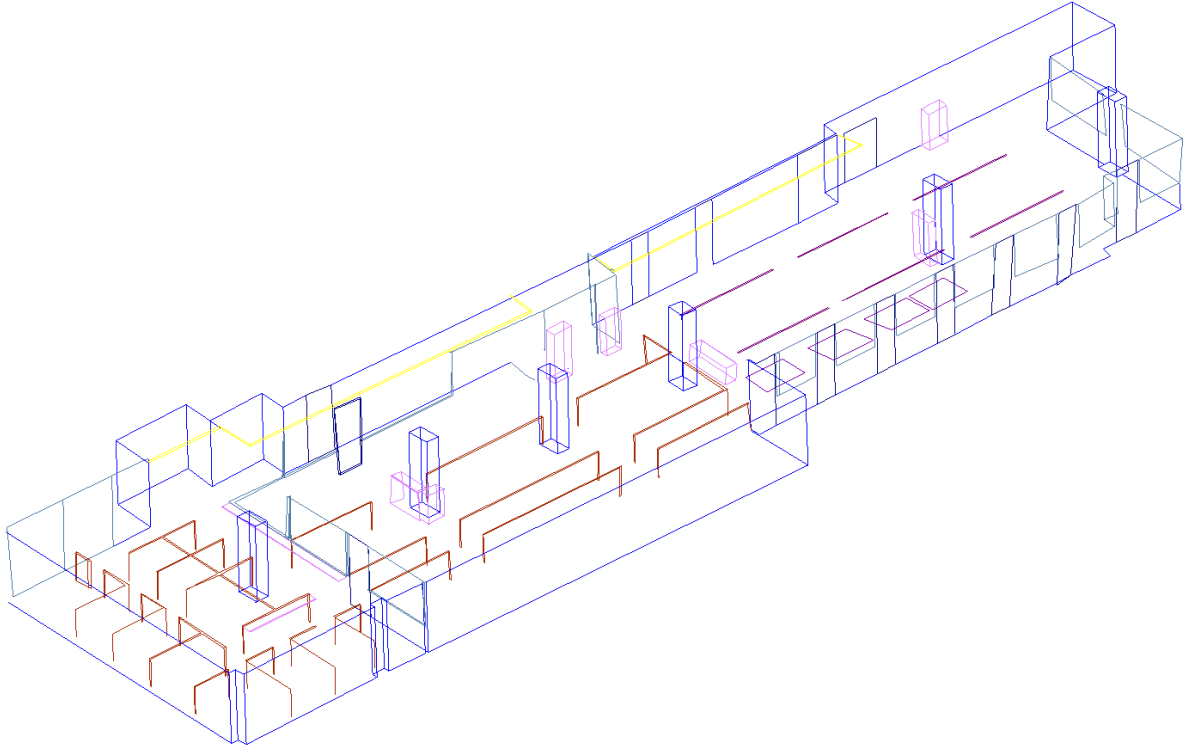
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Screen shot of 3D model created in **FOVEX Measure^{3D}** – view of entire floor map of office building created in the context of a BIM project in Calcutta/India (courtesy of Stesalit India)



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Screen shot of the same 3D model exported to **CAD software** (courtesy of Stesalit India)