

3D

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## Engineering Works Inspection from 360° UAV Aerial Photography

UAV 3D photography is rapidly growing activity and now can be embedded in a PDF document. Construction site engineering works inspection can be recorded and documented in technical PDF reports for contractual and regulation purposes, all within an off-line 3D PDF format.

Panoramic Photography is rapidly expanding through the use of much lower cost cameras, software and a large supportive community of professional photographers.

This aerial panoramic survey of a construction site was created by taking 18 separate drone camera still photos with DJI Phantom Vision FC200

and processing them on a host PC to create a full spherical 360° x 180° composite image.

Once the large image is prepared for use in an interactive panorama viewing environment (similar to virtual reality), the Mac or Windows application PDF3D ReportGen from Visual Technology Services transforms the image into a 3D dynamic view inside of a PDF document. Using the Adobe Reader or similar 3D PDF enabled viewer mouse pan, zoom and animation is available in a special illustration view-port inside the document page.

Left mouse button moves around, while right mouse (or Shift-Mouse on Mac) zooms in.

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