

Erratum – TR-036

In Section 3.1 Conclusions we stated that “...One limitation of the KLT softcopy photogrammetric workstation we encountered is that the RGB colour composite images required 8 bits per channel (24 bit all together), while the source IKONOS imagery has 11 bits per channel...”.

McElhanney Consulting Services Ltd have been in contact with the software developer, who has clarified that the KLT natively handles 11 bit, 16 bit as well as 8 bit/sample imagery, grayscale (1 sample/pixel), RGB or FCIR colour (3 samples/pixel), on-the-fly RGB/FCIR from 4 sample/pixel, and hyperspectral imagery.

The conversion of the 11 bit image channels into 8 bits in this project was a result of limitations with McElhanney’s computer hardware to effectively handle 3 channels of 11 bit data for a stereo image pair. There is double the volume of imagery using 11 bit image channels (which are stored in 16 bits) compared to using 8 bit image channels. It should be noted that compressing the imagery into 8 bits did not adversely affect the visual display of the image as the imagery did not have brightness values covering the entire 11 bits for each channel.