

Presenting the Dynamically Augmented UltraCam Software

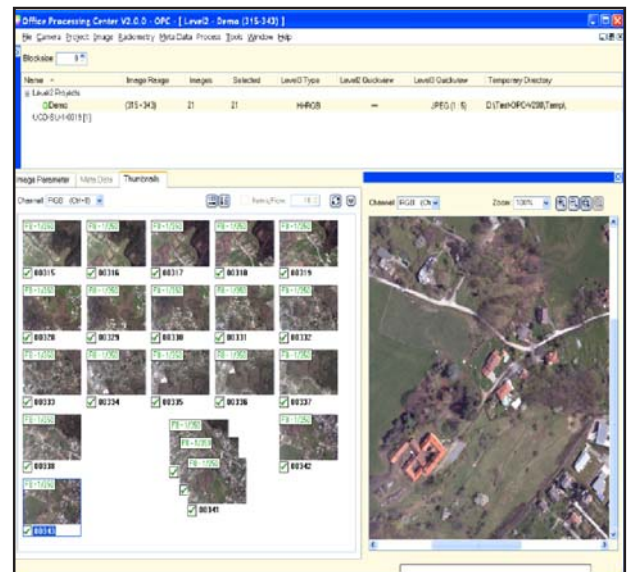
NEW OPC IMAGE POST-PROCESSING

overview

The digital large format aerial images are being collected in the air by the UltraCam system so that each triggered image is presented in 13 separate files (Level-0). The panchromatic image is in 9 separate "tiles" that need to get stitched, color is in an additional 4 separate images that need to be added to the panchromatic data. The transition from the raw Level-0 data to the final Level-3 color images is by post-processing using Vexcel's OPC software. Since the initial UltraCam deliveries at the beginning of 2004, we have listened to our customers and were able to respond to many suggestions. The OPC software has been greatly improved. Some of the recently implemented key features are:

features

- Fully-automatic and unattended processing from Level-0 to Level-2;
- Extensive management and quality control of the raw image data;
- Intuitive WYSIWYG for image previews and histograms with statistics of all processing levels, radiometric analysis and optimization;
- Rich interactive options to adjust the color radiometry for Level-3 output;
- Integrated dodging functionality;
- Flexible handling of meta data with GPS, DGPS, IMU and flight management;
- Processing pipeline entirely 16-bit;
- Full integration with the UltraMap Server for highly efficient distributed processing;
- Flexibility and versatility in Level-3 output with all TIFF options, JPEG, 8 and 16 bit, single channel, RGB, CIR, or multi-channel (R-G-B-I) at high or low resolutions.
- Customizable naming of Level-3 output files by using meta data information.
- Separate licensing for Level-2 to Level-3 conversion, for end-users of digital images who do not operate a digital camera.



OPC user support in the setup of the color image creation to Level-3. By presenting all images of a block, sub-assembly or strip, the user can set the color and ensure that a ground point has the same color, irrespective of the image and the location in it.