

## B 2.17 Operational Test (V6 dated 25 August 2021)

- (a) Prior to the commencement of imagery acquisition for the CD: NGI, and at any stage when the camera or IMU system has been disturbed in the aircraft, imagery of a CD: NGI approved test area shall be acquired for the purposes of an operational test. The Operational Test shall be undertaken after a successful Boresight Calibration has been completed.
- (b) The test area shall be flown at a ground sample distance at optimal of 0.25m of the GSD of CDNGI acquisition program, or as specified by the CD: NGI, with the same aircraft/sensor/peripheral equipment combination as will be used in the image acquisition programme of the CD: NGI.
- (c) This imagery shall consist of at least two adjacent strips, with each strip consisting of a minimum of six images with a forward overlap of between 55% and 65% and a sidelap of between 20% and 30%.
- (d) The entire area shall be stereoscopically covered within the usable portions of the images.
- (e) Ground control points (GCP) shall be used as supplied by the CD: NGI. The expected error, at a confidence level of  $2\sigma$ , in the individual easting and northing components, after aerial triangulation, shall not exceed  $\pm 0.068\text{m}$ , to a maximum permissible error of  $\pm 0.10\text{m}$ .
- (f) The expected error, at a confidence level of  $2\sigma$ , in the height, after aerial triangulation, shall not exceed  $\pm 0.12\text{m}$ , to a maximum permissible error of  $\pm 0.30\text{m}$ .
- (g) The following records in respect of the test area shall be provided:
  - i) Plan of the test area
  - ii) Co-ordinates, height and description of each GCP
  - iii) Enlargements on which the GCP are clearly marked at a scale such as to allow their easy identification
  - iv) All information as stipulated in paragraph B7.
- (h) Should the results obtained from the imagery of the test area not be consistent with the sensor calibration data supplied nor suitable for photogrammetric or photo interpretation purposes, the Chief Director may prohibit the use of that sensor.