



Universität Stuttgart

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## How to get sharp aerial photography

In order to receive sharp aerial photography/imagery there are different methods known and operated under the all-embracing label of FMC, Forward Motion Compensation.

Some of the FMC methods are:

1. FMC by mechanic film movement (used for decades in film-based aerial photography)
2. FMC by mechanic CCD movement
3. FMC by mechanic camera movement
4. FMC by TDI, Time Delayed Integration: A time delayed read-out of CCD lines will achieve for compensation of motion blur.
5. FMC by BCM, Blur Control Management: A high shutter speed plus extended radiometric CCD range is operated to compensate motion blur.

The IGI Quattro-DigiCAM system is fitted with *FMC BCM*. Such a camera system was thoroughly analysed by the Institute for Photogrammetry (ifp) of Universität Stuttgart when it was flown over the Vaihigen/Enz testsite. Furthermore, the camera system was once more proven, also by other authorities, within recent test campaigns of the Performance Test of Digital Aerial Cameras initiated and executed by the German Society for Photogrammetry, Remote Sensing and Geoinformation (DGPF).

The Institute for Photogrammetry of Universität Stuttgart has found, that the Quattro-DigiCAM, together with its *FMC BCM* method delivers sharp images that are usable for precise photogrammetric applications.

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