

A3 Edge Digital Mapping System Upgrades Oblique Capabilities



VisionMap has announced the introduction of upgraded oblique capabilities to its A3 Edge Digital Mapping System. The A3 Edge camera, well-known for its high capture productivity, now utilises a proprietary roll stabilisation technology that increases its efficiency, particularly for oblique projects.

The A3 Edge camera collects images by means of two telescopes that sweep from side to side to create an extremely wide 106° field of view. Each sweep captures oblique and vertical images simultaneously. The new roll stabilisation technology shortens the time it takes to complete each sweep, allowing for even faster coverage of the entire area. Productivity is increased for orthophoto, and especially for oblique production.

The A3 Edge Digital Mapping Camera and another oblique camera both surveyed an area of 1400 km² in Georgia, USA. A3 Edge completed the survey in 3.5 hours at 16cm GSD, collecting vertical and oblique imagery of the entire area, while the other camera took 7.1 hours to cover the area at 25cm GSD.

VisionMap's A3 LightSpeed automatically processed the imagery and generated a 16cm orthophoto in 26 machine hours. The other camera's imagery required 50 hours of machine processing to generate the 25cm orthophoto. The huge difference was in the amount of manual work – the other camera required an additional 100 hours of manual processing, whereas the A3 data from LightSpeed required less than 10 hours.

Overall, the highly productive A3 Edge system reportedly completed the project over two times faster.

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