

RMK D Camera System



Intergraph's Z/I Imaging RMK D is a medium format aerial imaging system designed to meet the high-accuracy/high-resolution requirements of engineering mapping and remote sensing tasks. With a much lower price point when compared to large-format cameras, more organizations will be able to take advantage of the most advanced imaging technology available.

Intergraph recognized the market need for a truly high-quality medium format digital camera and developed the RMK D to fill this gap. The resulting RMK D medium format digital camera utilizes the technology gained from our experience developing and building highly accurate digital cameras along with the extremely high quality lens production of Carl Zeiss.

The RMK D offers the highest accuracy of all mid-format digital cameras in the marketplace. Competitively positioned for pricing and design, the new camera is ideal for film camera owners seeking to enter the digital acquisition arena. You can also use it to supplement existing digital cameras with a versatile system that can be installed quickly into small aircraft. The RMK D is the only medium-format camera incorporating all of these features:

- Multi-spectral sensor: RGB and NIR simultaneously
- Electronic FMC: Wide range
- High frame rate: High-resolution stereo coverage
- High geometric accuracy

REDUCES FLYING COSTS

RMK D is a true multi-spectral sensor, allowing you to fly RGB and NIR simultaneously at 1:1 color resolution. For all other camera systems, two flight missions will be required and color resolution will be reduced. The camera's larger ground coverage allows you to save even more costs, offering a 6096 x 6500 pixel true ground resolution. RMK D offers two times higher ground resolution than other mid-format cameras.

The RMK D carries a small footprint inside the aircraft, using Solid State Disk (SSD) technology also used in Intergraph's Digital Mapping Camera (DMC®) system. This results in low weight and power requirements that allow it to fit in small, single-engine aircraft. The camera also provides color without pan sharpening. Pan imagery is generated from color as part of post-processing, providing high radiometric resolution for remote sensing.

As a medium-format camera, the camera is designed to fill the need for small area, engineering, and corridor mapping. It supports smaller flying organizations that don't typically engage in statewide/provincial mapping jobs, but still need to digitally acquire smaller areas/corridors with high accuracy and spectral capabilities.

COMPLETE SYSTEM

The RMK D isn't just another medium-format digital aerial camera. It delivers the accuracy and quality of a large-format camera system at half the footprint. No other medium-format camera system offers the capabilities of the RMK D, from high geometric resolution and accuracy to high radiometric resolution, 14 bits per pixel, 70 dB dynamic range, digital forward motion compensation (FMC) and four-band multi-spectral capability. The RMK D system includes Z/I Mission photo flight mission planning and reporting software, Z/I Inflight flight management system, SSD data cartridge, pilot display, Z/I Mount stabilized camera mount, and post-processing software.

TECHNICAL FEATURES

- Mid-format camera: Swath width approximately 50 percent of the DMC or RMK TOP
- Multi-spectral sensors: RGB, and NIR simultaneously
- 1:1 color ratio: for RGB, and IR, no Bayer pattern
- Large base to height ratio of 0.4 for high stereo accuracy

- Frame camera: High geometric accuracy
- 1 sec frame rate for large forward overlap
- FMC implemented: Based on TDI
- Compatible: Works with ISMP software, Z/I Mission software, ASMS and Z/I Inflight sensor management systems.
- Camera mounts: Compatible with T-AS and Z/I Mount.
- High resolution: 8cm GSD at 500m flying height
- Surveying aircrafts: Same as modified for DMC, RMK TOP, LMK or RC30

Please note Intergraph reserves the right to modify technical parameters, this is a preliminary spec sheet.



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