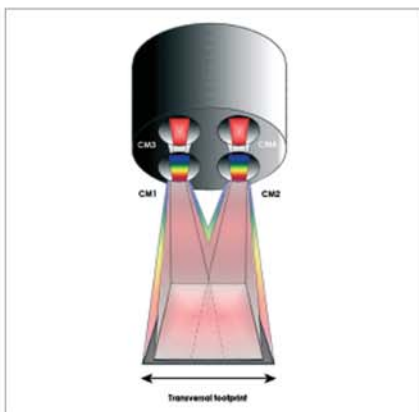
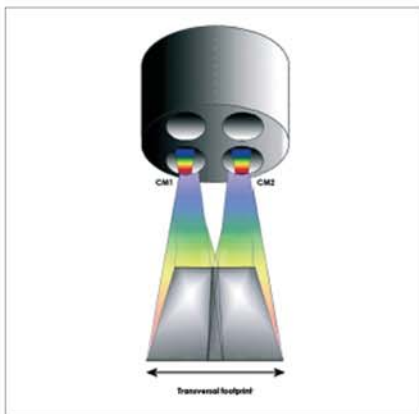
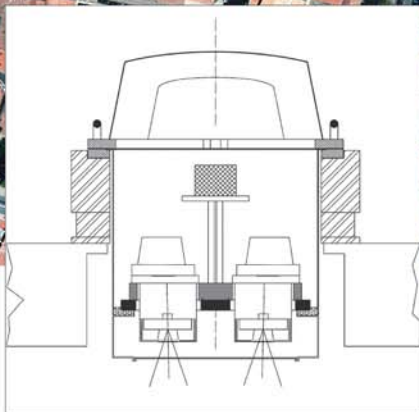


DiMAC WIDE+

A compact form factor with a medium footprint, including FMC capacity for both mapping and ortho



13,000 X 8,900 PIXELS



- ▶ True FMC
- ▶ True Color
- ▶ Upgradeable

The DiMAC WiDE+ is a large-format digital aerial camera that captures a footprint of 13,000 pixels across by 8,900 pixels along the flight line by using only 2 adjacent Camera Modules.

The DiMAC WiDE+ architecture of 2 Camera Modules (CM) reduces the risk of hardware or image quality problems—by using fewer CCDs and associated components—and also minimizes the post-processing necessary to produce the final color image.

The modular, upgradeable architecture of the DiMAC WiDE+ incorporates the core DiMAC benefits of True Forward Motion Compensation (FMC) and True Color acquisition. FMC technology is the only method of ensuring proper light exposure and blur-free imagery when using the highly demanding 60-MP CCD sensor with its 6- μm \times 6- μm pixels.

The DiMAC WiDE+ includes DiMerge software, which seamlessly combines images from the 2 CMs into a single frame. The result is a geometrically and radiometrically corrected frame that can be used for both photogrammetric and orthophoto applications.

For the simultaneous acquisition of color and near-infrared imagery, an optional configuration of the DiMAC WiDE+ uses additional CMs equipped with NIR filters.

The DiMAC WiDE+ is an excellent digital replacement for aerial film cameras, with superior image quality at the lowest cost of any large-format aerial camera.

Specifications DiMAC WIDE+

Camera Module (CM)

Area sensor	Dalsa full-frame CCD color image sensor 8,984 × 6,732 pixels, effective 6 μm × 6 μm pixels 53.9 × 40.4 mm, effective
True FMC	Electro-mechanical, driven by piezo technology
Lenses	70 mm/120 mm/210 mm
Shutter	Electro-mechanical iris mechanism 1/125 to 1/250 sec., f-stops: 4, 5.6, 8, 11, 16
Filter	Standard size RGB and IRC removable filters
Image output	13,000 × 8,900 pixels (2 CMs merged) 8 or 16 bits per channel 24-bit RGB: 340 MB 48-bit RGB: 680 MB
Capture rate	2 sec.
Resolution (GSD)	2 cm to 1 m (<1 inch to 3.3 feet)



Cylindrical Camera Frame (CCF)

Composition	Carbon fiber with thermal & vibrational isolation
Diameter	40 cm (15.75 in)
Weight	45 kg (100 lbs) including CMs



IT Rack (ITR)

Control & acquisition computers	PC/104 RoHS-compliant small-form-factor embedded computers with: Intel® Core™ Duo LV2400 CPU, 1-GB RAM 4-GB flash disk local storage IEEE 1394 FireWire interface
Removable storage units	500-GB pressurized hard drives per CM Up to 8,000 images per CM
Dimensions	44 (H) × 27 (W) × 36 (D) cm (17 × 11 × 14 in)
Weight	35 kg (75 lbs)
Input voltage	24-28 VDC
Current draw	12-20 A



Image Processing Software

CaptureOne	Radiometric control and format conversion TIFF or JPEG
DiMerge	Frame merging

Fulfilling the promise of digital aerial imagery



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Aerial Imaging Solutions