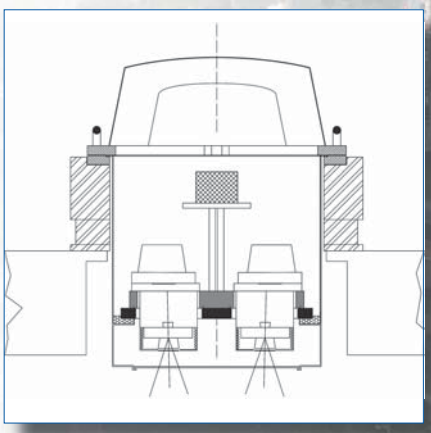
DiMAC WiDE

10,500 x 7,200 pixels



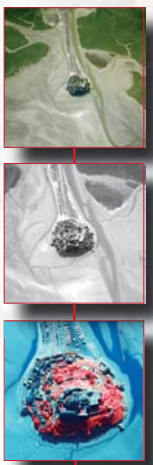
a large footprint in a full size form factor for both mapping and ortho

The DiMAC WiDE is our large format digital aerial camera that captures a fo otprint of 10,500 pixels across by 7,200 pixels along the flight line by using just 2 adjacent Camera Modules.

This new design decreases the risk of failure, with fewer CCDs and associated components, and minimizes the required post-processing necessary to produce the final color frame tiff image.

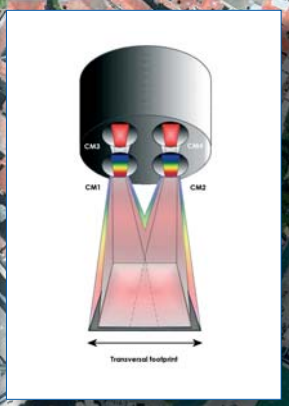
The DiMAC WiDE includes the **DiMerge** software, which seamlessly combines the images from 2 Camera Modules into a single frame. The result is a geometrically and radiometrically correct frame that can be used for both photogrammetric and orthophoto applications.

The DiMAC WiDE possesses all of the essential requirements of a large format digital aerial camera, built around the core DiMAC benefits of True FMC and True Color acquisition within a modular, upgradeable architecture.



One optional configuration of the DiMAC WiDE enables simultaneous acquisition of color and near infrared imagery. This is achieved by adding a second pair of DiMerged Camera Modules equipped with NIR filters within the Cylindrical Camera Frame (CCF).

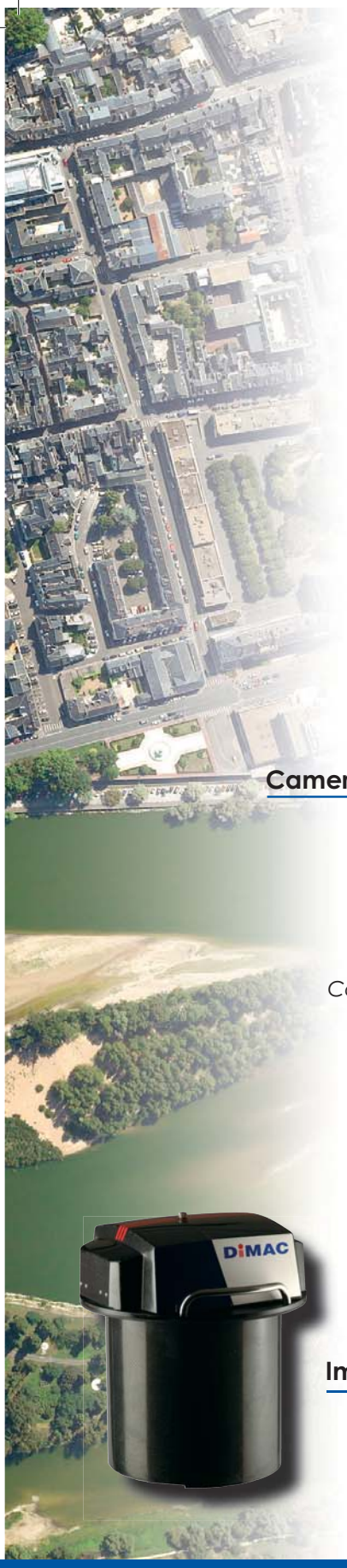
The DiMAC WiDE is an excellent digital replacement for aerial film cameras, with superior image quality at the lowest cost of any large format aerial camera.



- TRUE COLOR
- TRUE FMC
- UPGRADEABLE
- MODULAR
- COST EFFECTIVE

DiMAC
DIGITAL MODULAR AERIAL CAMERA

www.dimacsystems.com • info@dimacsystems.com



DiMAC WiDE specifications *

Camera Module (CM)

Area sensor	Kodak full-frame CCD color image sensor 7,216 x 5,412 pixels (effective) 6.8 µm^2 pixels 49.1 x 36.8 mm (effective)
True FMC	Electro-mechanical driven by Piezo technology
Lenses	55mm/80mm/120mm
Shutter	Electro-mechanical iris mechanism 1/125 to 1/500 sec., f-stops: 4, 5.6, 8, 11, 16
Filter	Standard size RGB and IRC removable filters
Image output	10,500 x 7,200 pixels (2 CMs merged) 8 or 16 bits per channel 24 bit RGB: 220 MB 48 bit RGB: 440 MB
Capture rate	2.5 sec.
Resolution (GSD)	2 cm to 1 m / <1 inch to 3.3 feet

Camera Cylindrical 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, 1GB RAM 4GB flash disk local storage IEEE 1394 fire wire interface
Removable storage units	500 GB pressurized hard drives per CM 10,000 images max
Dimension	H x W x D: 44 x 27 x 36 cm / 17 x 11 x 14 in
Weight	35 kg / 75 lbs
VDC	24-28 V
DCA	12 to 20 A

Image Processing Software

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

** Specifications subject to changes without prior notice*