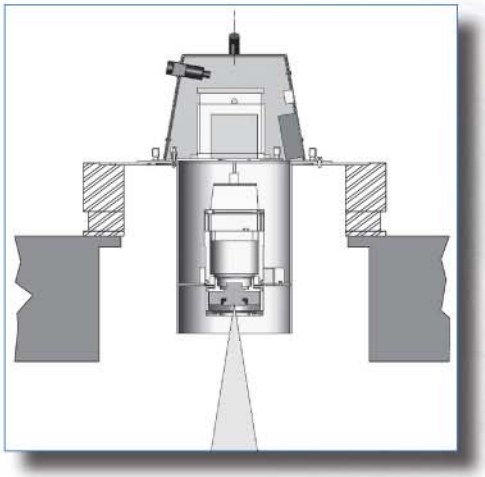
DiMAC ULTRALIGHT+

8,900 x 6,700 pixels

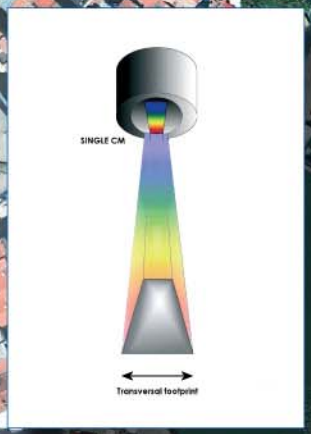


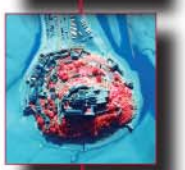
a compact form factor with a medium footprint including FMC capacity suitable for both mapping and ortho

The DiMAC ULTRALIGHT+ is the smallest of the DiMAC product family and consists of just a single Camera Module that captures a footprint of 8,900 pixels across by 6,700 pixels along the flight line.

Like no other medium footprint digital aerial camera, the DiMAC ULTRALIGHT+ provides accuracy and clarity that can only be obtained through forward motion compensation. In addition to the patented True FMC, the DiMAC ULTRALIGHT+ features DiMAC's True Color acquisition and can be configured with a range of lens and filter options.

Note that the use of FMC technology is the only means to ensure proper light exposure and blur-free imagery when utilizing the highly demanding 60 MP CCD sensor with its 6 µm x 6 µm pixels. DiMAC's TrueFMC ensures higher accuracy and better quality imagery than any other medium-format camera based on a single CCD.





The DiMAC ULTRALIGHT+ can be used with a small form-factor gyro-stabilized platform that can fit smaller-than-normal aircraft camera ports. System control and data storage are provided by an unobtrusive IT Cube (ITC) making the overall system size and power requirements among the smallest in the industry.

The DiMAC ULTRALIGHT+ Camera Module is fully calibrated and can be used for both photogrammetric and orthophoto applications. The DiMAC ULTRALIGHT+ utlizes the same proven technology and calibration methodology as other DiMAC products, but in a low-cost, scaled-down form factor.

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

DiMAC
DIGITAL MODULAR AERIAL CAMERA

www.dimacsystems.com • info@dimacsystems.com

DiMAC ULTRALIGHT+

specifications *

Camera Module (CM)

Area sensor	Dalsa full-frame CCD color image sensor 8,984 x 6,732 pixels (effective) 6 µm x 6 µm pixels 53.9 x 40.4 mm (effective)
True FMC	Electro-mechanical driven by Piezo technology
Lenses	47mm/70mm/120mm/210mm
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	8,984 x 6,732 pixels 8 or 16 bits per channel 24 bit RGB: 180 MB 48 bit RGB: 360 MB
Capture rate	2 sec.
Resolution (GSD)	2 cm to 1 m / <1 inch to 3.3 feet

Camera Frame (CF)

Cylindrical frame of 22 cm (8.5 in) diameter housing the CM

IT Cube (ITC)

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 - 8,000 images
Dimension	H x W x D: 25 x 25 x 25 cm / 10 x 10 x 10 in
Weight	15 kg / 33 lbs
Input voltage (DC)	24-28 V
Current draw	5 A

Image Processing Software

CaptureOne	Radiometric control and format conversion TIFF or JPEG

** Specifications subject to changes without prior notice*