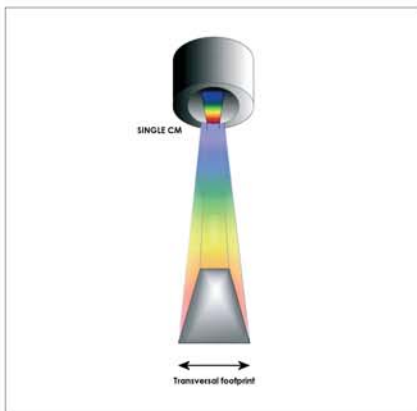
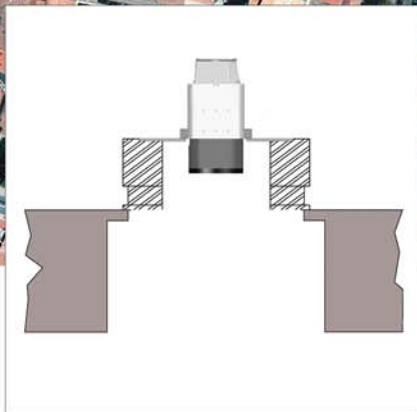


DiMAC ULTRALiGHT+

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



8,900 x 6,700 pixels



- ▶ True FMC
- ▶ True Color
- ▶ Upgradeable

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

Unlike all other medium-footprint digital aerial cameras, the DiMAC ULTRALiGHT+ delivers the accuracy and clarity that can only be obtained through Forward Motion Compensation (FMC). In addition to its patented True FMC, the DiMAC ULTRALiGHT+ features DiMAC's True Color acquisition, and can be configured with a wide range of lens and filter options.

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 $6\text{-}\mu\text{m} \times 6\text{-}\mu\text{m}$ pixels. DiMAC's True FMC 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 fits into smaller than normal aircraft camera ports. An unobtrusive IT frame provides system control and data storage, making the overall system size and power requirements among the smallest in the industry.

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

Specifications DiMAC ULTRALIGHT+

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	50 mm/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	8,984 × 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 in to 3.3 ft)



IT Cube (ITC)

Control & acquisition computers	Mini-ITX RoHS-compliant small-form-factor embedded computers with: AMD Turion™ 64 X2 CPU, 4 GB RAM 4 GB flash disk local storage IEEE 1394 Firewire interface
Removable storage units	480-GB solid state drives – 8,000 images
Dimensions	25 (H) × 25 (W) × 30 (D) cm (10 × 10 × 10 in)
Weight	15 kg (33 lbs)
Input voltage	24-28 VDC
Current draw	5 A

Image Processing Software

CaptureOne	Radiometric control and format conversion TIFF or JPEG
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Fulfilling the promise of digital aerial imagery



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Aerial Imaging Solutions