

a medium footprint
in a full size form factor
with upgradeable
imaging capacity suitable
for both mapping and ortho

The DiMACLiGHT+ is our medium format digital aerial camera that captures a footprint of 8,900 pixels across by 6,700 pixels along the flight line using a single Camera Module and is easily upgradeable to the large format DiMACWIDE+.

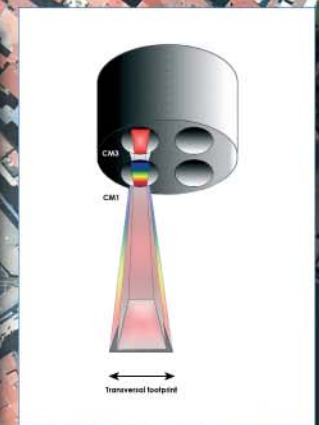
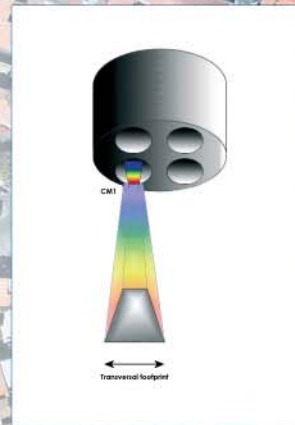
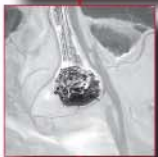
The DiMACLiGHT+ utilizes the same enclosure (CCF) and employs the same control system (ITR) as the DiMACWIDE+. This ensures an easy and cost-effective upgrade path to large format image acquisition capacity.

The DiMACLiGHT+ Camera Module is fully calibrated for photogrammetric applications and can be equipped with different lenses to meet different project requirements.

The modular, upgradeable architecture of the DiMACLiGHT+ incorporates the core DiMAC benefits of True FMC and True Color acquisition. 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.

The DiMACLiGHT+ may be configured to simultaneously acquire color and near infrared images. This configuration requires using two Camera Modules of the same lens type to simultaneously capture the same area in both RGB and NIR.

The DiMACLiGHT+ is the perfect solution for companies seeking to invest in digital camera technology today with the opportunity to upgrade to a large format system in the future.



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



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



Cylindrical Camera Frame (CCF)

Composition

Carbon fiber with thermal & vibrational isolation

Diameter

40 cm / 15.75 in

Weight

45 kg / 100 lbs (including CM)

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 - 8,000 images

Dimension

H x W x D: 44 x 27 x 36 cm / 17 x 11 x 14 in

Weight

30 kg / 66 lbs

Input Voltage (DC)

24-28 V

Current draw

8 to 12 A



Image Processing Software

CaptureOne

Radiometric control and format conversion
TIFF or JPEG

* Specifications subject to changes without prior notice