

# ALTM + DiMAC

## Summary Specification Sheet



A new standard in quality  
**imaging solutions**



Take advantage of Optech's experience in sensor integration and quality imaging products with the addition of a DiMAC ULTRALiGHT+ camera.

Why integrate?

- Acquire simultaneous lidar XYZI and photo RGB information
- Facilitate fast, accurate ortho-photo production
- Minimize photo endlap



 ALTM Pegasus



 ALTM Gemini



 ALTM Orion

ALTM + DiMAC



# ALTM + DiMAC

## DiMAC cameras bring high-quality imagery to a medium format

- Patented true Forward Motion Compensation technology provides crisp, blur-free imagery (fly lower, faster and longer)
- Temperature stabilization
- Rigorous geometric and radiometric calibration
- Wide choice of lenses
- 1-year comprehensive manufacturer's warranty with 24/7 support

## ALTM Multi-Sensor Integration Package

- Custom-engineered multi-sensor mount
- Fully integrated lidar and photo mission planning capability
- Fully integrated sensor control and monitoring capability
- All required interconnect cables
- Full calibration report with lidar/camera boresight values
- Planning, operations, and data-processing training

Parameter	Specification
<b>Camera Module (CM)</b>	
Area sensor	60 MP full-frame CCD 8,984 x 6,732 pixels (effective) 6 µm x 6 µm pixels 53.9 x 40.4 mm (effective)
True Forward Motion Compensation (FMC)	Solid-state electro-mechanical
Lenses	50 mm /70 mm /120 mm /210 mm
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 interchangeable filters
Image output	8 or 16 bits per channel 24-bit RGB: 180 MB 48-bit RGB: 360 MB
Capture rate	2.5 sec.
Resolution (GSD)	2 cm to 1 m / <1 inch to 3.3 feet
<b>IT Cube (ITC)</b>	
Control & acquisition computers	PC/104 RoHS-compliant small form-factor embedded computers with minimum: 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 - 8,000 images typically
Dimensions (H x W x D)	250 x 250 x 250 mm / 10 x 10 x 10 in
Weight	15 kg / 33 lbs
Input voltage (DC)	24-28 V
Current draw	5 A
<b>Software</b>	
DiOPS	Real-time camera operations and configuration management
CaptureOne	Image development

## Optech Incorporated

300 Interchange Way, Vaughan ON, Canada L4K 5Z8

Tel: +1 905 660 0808 Fax: +1 905 660 0829

[www.optech.ca](http://www.optech.ca)

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