



100,000 reasons to choose ALTM

*Lidar is the undisputed choice for fast, accurate terrain mapping.
Get in on the ground floor with ALTM.*

Lidar: it's all about the science. More powerful, more accurate, and more cost-effective than traditional survey methods, lidar gives you the best possible information about the asset being mapped.

And Optech's ALTM is the best possible lidar solution available today.

Leveraging Optech's 30 years of lidar experience, the new ALTM 3100 offers area coverage rates as high as 100 kHz, producing elevation data of unparalleled density and unprecedented low cost per posting.

The advantages of ALTM don't stop with high pulse repetition rate. ALTM is a complete end-to-end survey solution that includes Optech's ALTM-NAV Flight Management Software and REALM Survey Suite, Optech's fully integrated data

processing software. Combined, these powerful software tools give you total control of your survey operation and allow you to get the most out of your survey.

Whether your role on the team is to capture the data, process the results or lead the total enterprise, Optech's ALTM gives you more choice:

- Adjustable scan frequency, scan angle, pulse repetition frequency (PRF)
- Variable beam divergence
- Roll compensation
- Laser intensity for highly detailed images that approximate medium-resolution photographs even in the darkness of night
- New 3100 model is smaller and lighter than previous systems
- Digital camera models couple high resolution aerial photography with high density lidar data
- Fully supported anywhere in the world



The Operator's Choice

"I need to survey 100 kilometers of coastline at 1-meter resolution. Temperature differentials along the coast mean lots of cloud cover. If I'm constantly changing altitude to avoid clouds, how can I possibly recalculate my survey parameters every few minutes?"

It's not only possible, it's actually easy with Optech's new ALTM-NAV Flight Management Software. Simply key in the resolution, altitude and speed. ALTM-NAV automatically calculates the optimal scan angle. Dropping altitude to adjust for cloud cover? Just key in the lower altitude. Stay on course over a coastline? Import a background map or plot the way points in the Corridor Planner. This powerful software orchestrates all three major aspects of airborne survey operations—GPS/POS, Lidar, and Flight Management—into one harmonious program.

The Data Processor's Choice

"They just dumped two massive projects on me and expect color DEMs tomorrow. Not only that, one customer asked if we could eliminate the trees from his forest DTM. Help!"

Help is a mouse-click away with REALM Survey Suite. Using REALM's batch processing feature, huge data sets can be processed overnight and ready for manipulation in the morning. Surveying a planned power line corridor presently covered with trees? REALM's unique Classification feature provides bare earth information. Analyze GPS information via reports. Refine the aircraft's attitude information. Take advantage of tools for graphic analyses, and utilities for data testing and quality assurance.

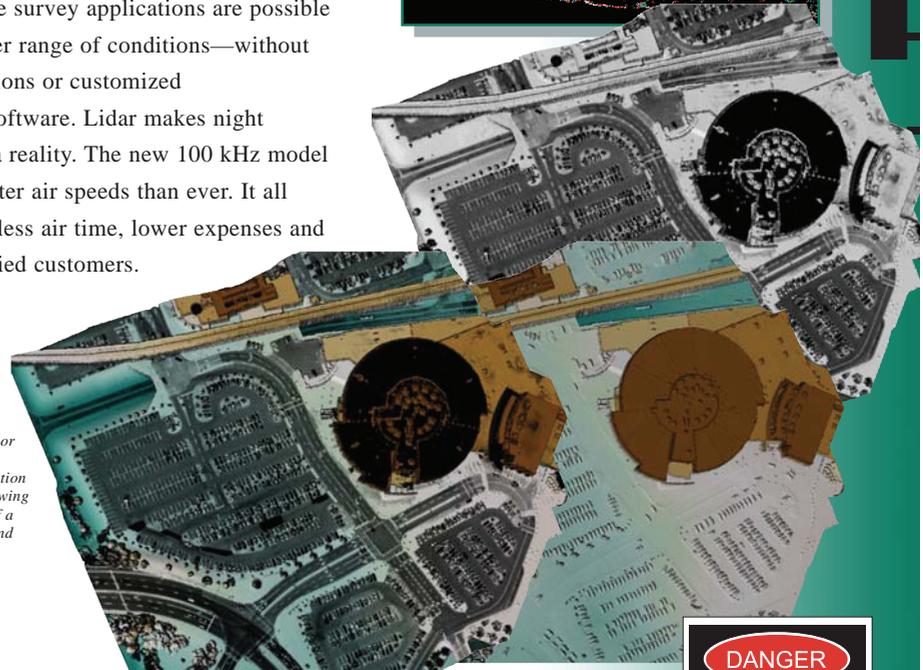
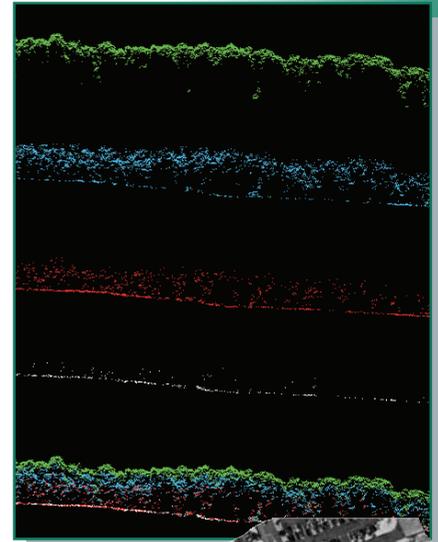


Left: Optech's new ALTM 3100. Below: Canopy imagery of the four pulse returns, and a final merged image of all four pulses.

The Project Coordinator's Choice

"I've got a Navajo PA-31 booked 95% airtime, one client who needs elevation data in ASCII format, another who needs binary data, one who wants digital still photography, and one who even asked if we can survey at night! How can I say 'yes' to everybody?"

Optech's ALTM lets you say Yes to all these challenges. Every ALTM comes with the flexibility you need built right in. Flexibility means more survey applications are possible over a wider range of conditions—without special options or customized hardware/software. Lidar makes night surveying a reality. The new 100 kHz model handles faster air speeds than ever. It all adds up to less air time, lower expenses and more satisfied customers.



Images: Active Laser Photo, color elevation model, and a data elevation model, each showing the same area of a shopping mall and parking lot.

Optech

USA OFFICE:

Optech International, Inc.

7225 Stennis Airport Drive • Suite 400

Kiln, Mississippi 39556 USA • Tel: [228] 252-1004

Fax: [228] 252-1007 • Web: www.optechint.com

Email: inquiries@optechint.com

CANADIAN OFFICE:

Optech Incorporated

300 Interchange Way • Vaughan, ON

Canada L4K 5Z8 • Tel: [905] 660-0808

Fax: [905] 660-0829 • Web: www.optech.ca

Email: inquiries@optech.ca

