

# DynaNav announces the introduction of the "Z" factor laser system

During the past decade technology in the ag-air industry has moved ahead in leaps and bounds and not just in capital equipment such as aircraft but also in many of the support and service technologies. For example, the latest GPS mapping, data gathering and guidance systems from DynaNav are now extremely accurate at least in the x – y-axis, in other words horizontal flight mode. The challenge in this sector of the industry has always been to develop the elusive "z" factor that of an accurate in flight vertical height over ground recording and reference system.

In the mid 1990s DynaNav

integrated a hardware laser product that was available at that time and a workable solution was developed and integrated into the DynaNav systems. Unfortunately, the laser unit, as well as being extremely expensive, was also excessively large and heavy, which did not fit the DynaNav design parameters of lightweight and small components and as a result the project was shelved.

However, the exercise was not a lost cause as the concept was thoroughly tested and very useful software solutions were developed. In fact, they were retained and are installed in the current

core software package of the DynaNav product.

Recently new laser hardware technologies have entered the market place and DynaNav engineers have had the pleasure of resurrecting the software within the systems and integrating the two products. The results are remarkable which should come as no surprise as the unit being used is also installed in the U.S. Army's unmanned aircraft program as part of their guidance systems.

This remarkable piece of equipment is manufactured by Ag Lasers out of California and is called the LaserAce\*. Its dimen-



The small and lightweight LaserAce unit from Ag Lasers

sions are 4.25 x 2.5 x 1.625 inches with a total weight of less than 12 ounces installed. For most aircraft or helicopters, it is installed on an inspection plate on the underside of the wing or fuselage of a helicopter. The unit is vertically accurate to within inches and has a height limit of 150 meters or 500



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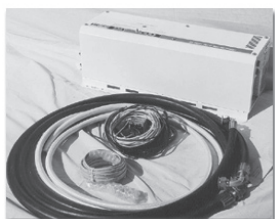
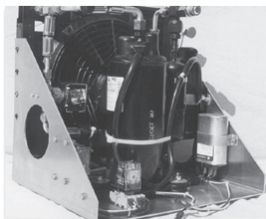
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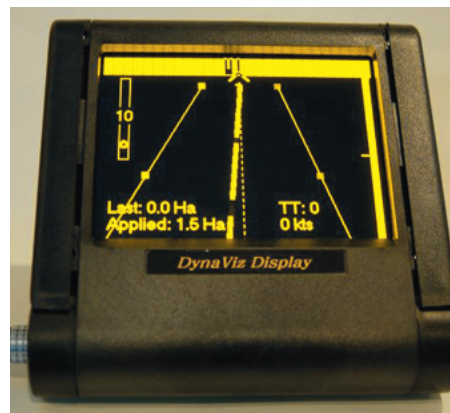
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*DynaViz screen in "roadway" mode showing the Laser data on the left of the screen.*

feet above the ground.

A vertical reference display will provide a continuous stream of data on the left hand side of the DynaViz "heads up" display while in the "roadway" guidance mode. This will ensure that this critical information is within the pilot's line of sight at all times and will form part of his normal instrument scanning procedure without distraction.

Immediate benefits of this new

technology will be seen particularly in seeding and fertilizing activities with much improved repetitive deposition accuracies as well as minimized drift in spraying.

DynaNav Systems Inc. is pleased to announce that this package will be offered as an option to any of their flight systems at a package price of US\$3300.00, FOB Pitt Meadows, BC, Canada, all duties and taxes extra.

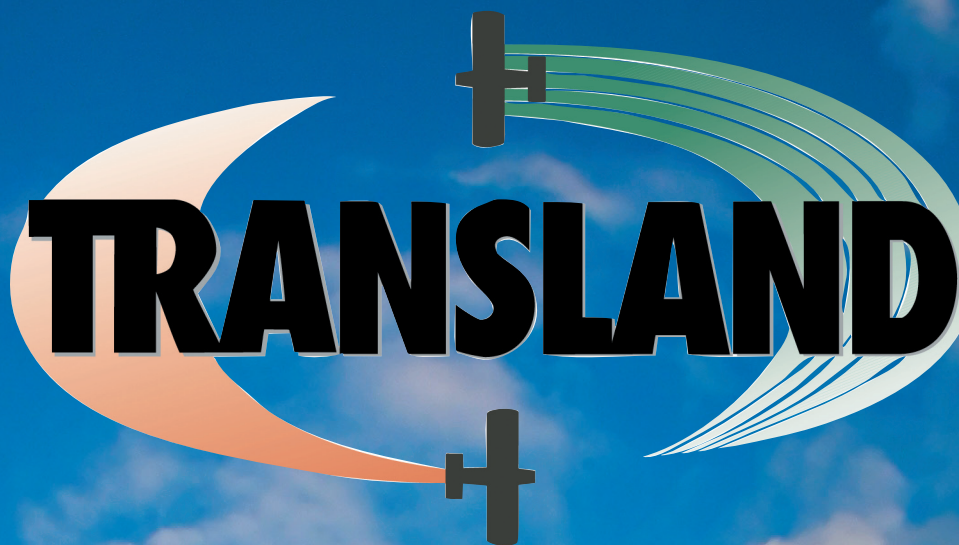
In most cases this will also be a plug in option to existing DynaFlight-AirAgII systems. A call to the DynaNav office will clarify the situation.

For more information [www.dynanav.com](http://www.dynanav.com).

*\* Under license from Measurement Devices, Ltd.*

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