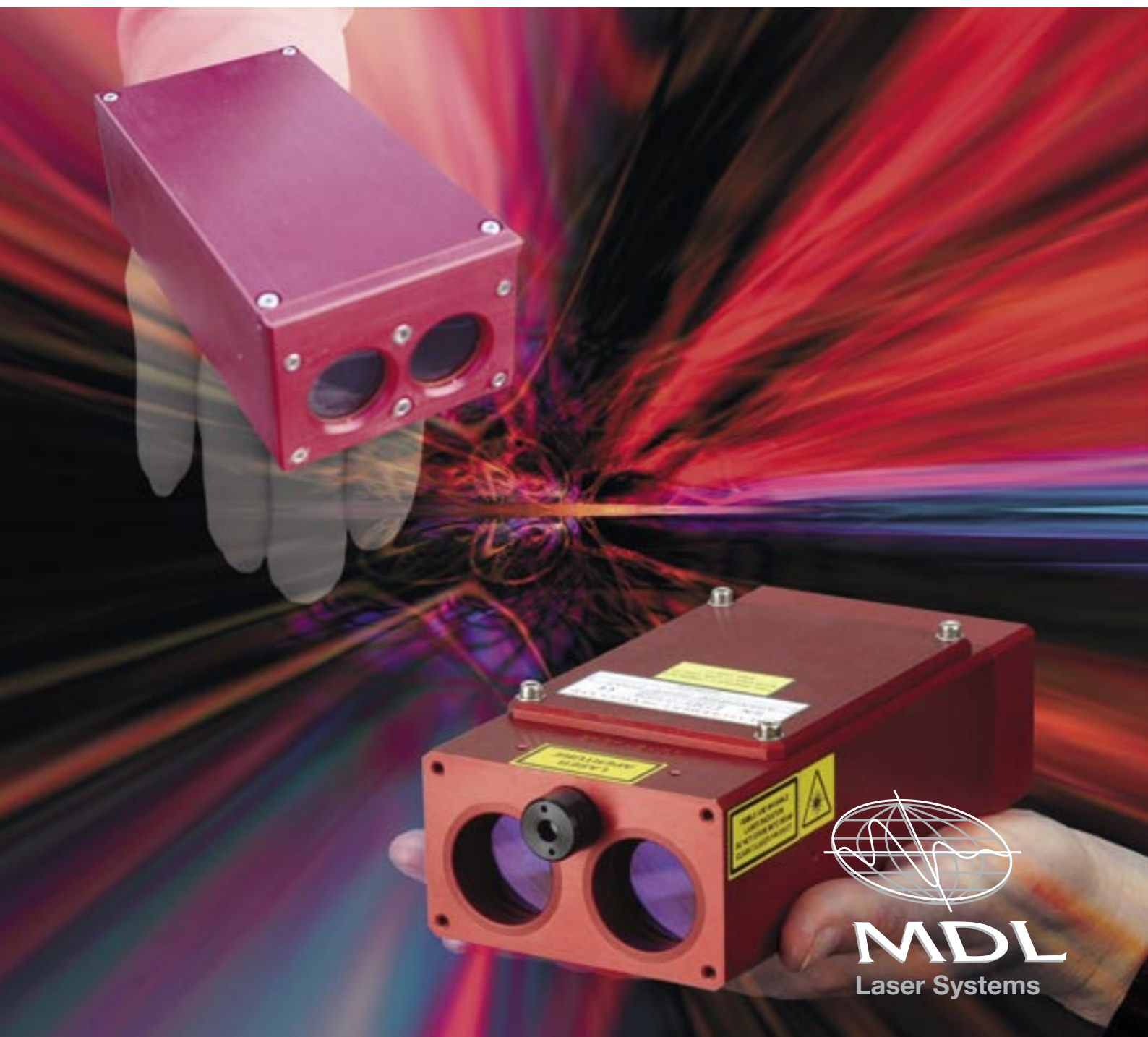


LaserAce[®] IM



OEM LASER MODULE



a world leader in laser measurement technology

The LaserAce® IM units are compact class 1 eye safe, rugged, multipurpose laser distance meters for integration into OEM applications.

These laser distance measuring modules have been specifically designed for additional integration each giving a reflectorless range of up to 700m (2300ft), 300m (1000ft), 150m (500ft) and 35m (114ft) for the IM 700, IM300, IM150 and IM35 respectively. The sensors can be integrated into a number of suitable system applications requiring, primarily distance measurement.

LaserAce® IM modules can be configured to output range, speed and height of vehicles or objects and may also be set to trigger cameras in Tollbooth or Law Enforcement applications. The sensors can also be further integrated to produce vehicle profiles and scans, classify and identify them, count axles, over height detection and much more.

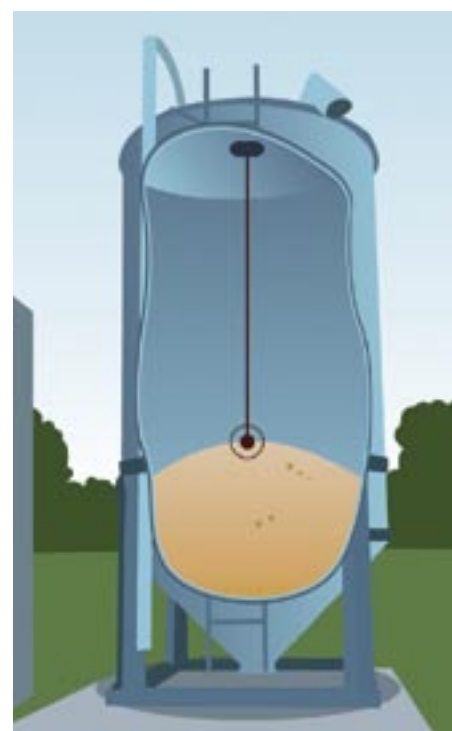
Alongside traffic applications the LaserAce® IM is used in Military, Security, Construction and Aviation markets. From a target designator, motion detector, surveying tool and altimeter, each market segment has its own special requirement. Here at MDL we are aware that no two applications are exactly the same so we work with our OEM partners to provide unique solutions to their individual applications and are always willing to help. LaserAce® IM is cost effective, accurate, fast and environmentally sealed to IP67 making it the most robust sensor on the market today!

The laser modules use time-of-flight technology, put simply, it measures the time taken for a very short pulse of infrared laser light to travel from one window in the module, to a very low noise detector in a second window. The distance to the target is calculated from the time taken to make the round trip.

The reflected light signal levels are very low, so the greater the reflectivity of a target, the longer the range over which this target can be 'seen'. Therefore, reflective targets will increase the range of each of the LaserAce® IM modules.



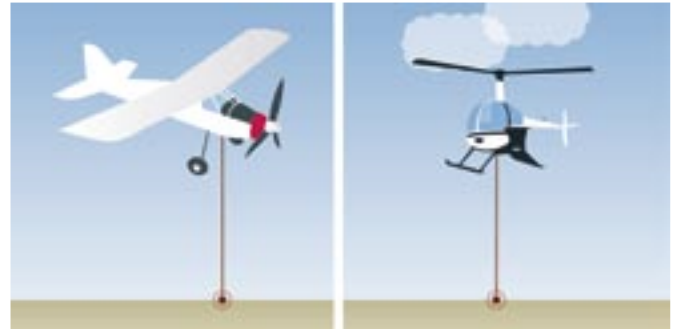
 Elevator Position Measurement



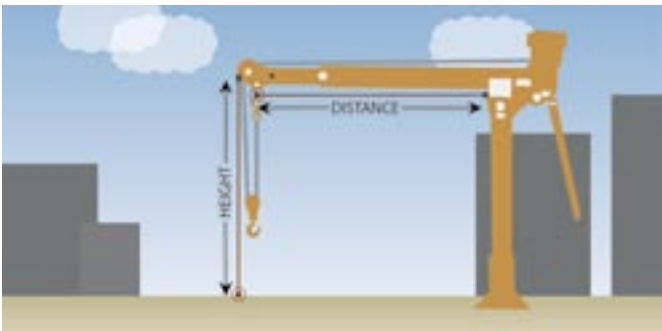
 Silo Measurement



Ship Docking Measurement



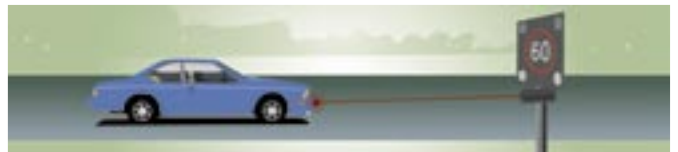
Altimetry



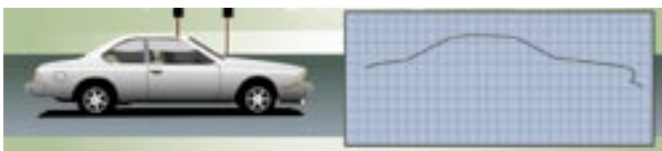
Load Height Measurement



Car-to-Car Speed Measurement



Active Sign



Vehicle Profiling / Height Detection



Camera Trigger



Axle Counting



Safety for Roadside Workers



Overheight / Height detection



Overhead Cable Measurement



We provide a set of standard systems which are designed for easy integration in all applications based on commonly required specifications. Other variations are available and customisations can be provided for OEM integrators. Please talk to us about your application and needs so that we can show you how our **LaserAce® IM** modules can help you.

Accessories

- Sighting Scope: Aligned to the laser beam to visually see where the target currently being ranged is located.
- Red Dot Pointer: An additional red laser pointer, aligned to the measuring beam to locate the current target.

LaserAce® IM-R

MDL's standard laser module with a repetition rate of 9Hz. This unit is used in airborne laser altimetry, distance measurement and collision avoidance.

The LaserAce® IM-HR

The high repetition rate distance meter, with a rep rate of up to 1000Hz. This unit is faster than the standard 'R' version and is also used in airborne laser altimetry, distance measurement, excess height measurement and traffic applications.

The LaserAce® IM-T

A Fixed distance high-speed camera trigger. This unit is ideal for integration into a camera system for vehicle recognition, vehicle classification, profiling and speed detection.

The LaserAce® IM-S

An OEM speed and distance meter used to detect speeding vehicles.

High repetition rates of measurement allow continuous distance measuring and speed calculation.

Please note that for our OEM customers we can customise the modules output information and repetition rate.



LaserAce® is a registered trademark of Measurement Devices Limited. All other products and company names mentioned may be trademarks of their respective owners.

Information contained is believed to be accurate. However, no responsibility is assumed by MDL for its use. Technical information is subject to change without notice.

Agent:

For more information on **LaserAce® IM** please visit **www.laserace.com**

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