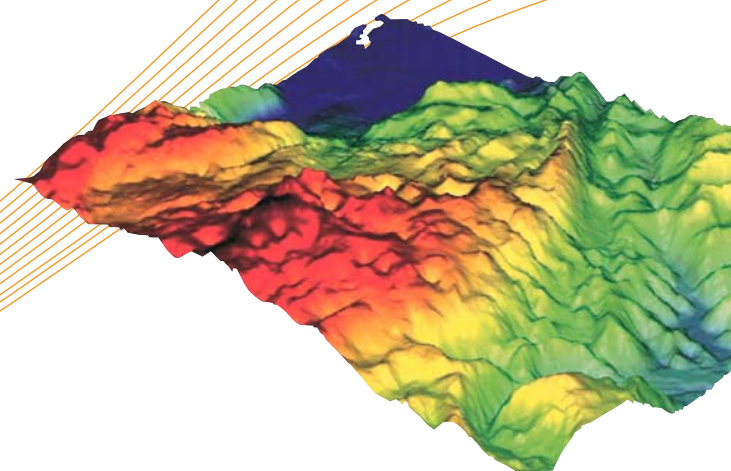




Your Lasermapping Team



## LaserMap Asia



LaserMap Asia Sdn Bhd is the first company in Asia to use the latest Optech LiDAR 2050 technology for computerised land mapping. This technology has already captured most of the global LiDAR (Light Detection & Ranging) market.

Optech LiDAR 2050 is the latest and most advanced way of capturing terrain elevation data by plane or helicopter. Plotting three million points per minute, it can be used by day or night, and no site access is required.

LaserMap Asia also offers Laser Intensity Mapping and Orthophotography, as well as a comprehensive range of other geomatics services.

Based in Malaysia, LaserMap Asia has been granted Multimedia Super Corridor (MSC) status in recognition of its outstanding technological sophistication. The company is staffed by a team of highly qualified, specialised and experienced knowledge workers. As part of the Canadian-

based GPR Group of Companies, LaserMap Asia has exclusive access to the world's finest mapping technology and expertise.

## The GPR Group



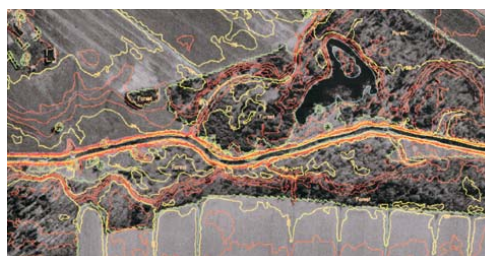
The GPR Group of Companies is a leading land surveying and mapping company. Founded in the province of Quebec, Canada in 1980, it has undertaken projects in Canada, the USA, Malaysia, Jamaica, Japan, Korea and Peru to name a few.

GPR invests heavily in R&D and is a pioneer of LiDAR technology, which it has been using since 1996. With a team of 75 people, the Group is renowned for its professionalism as well as for the superlative quality of its products.

## The LaserMap Edge

Tried and fully tested in a huge range of projects from Japan to Peru, our LiDAR technology has a clear edge over all other current technologies

- High speed
- High accuracy
- High spatial density
- Low relative cost



Orthoimage mosaicked and fused with terrain data.

## Applications

- Coastal erosion analysis
- Flood risk mapping
- Forestry applications
- Geo-reference location structures
- GIS and high tech aerial surveys
- Golf and resort planning
- Hydropower projects
- Large-scale civil engineering projects
- Landslide risk mapping
- Defence applications
- Movie animation production
- Open pit mining
- Pipeline construction
- Roadway corridor planning
- Telecommunications
- Topographic surveys
- Transmission lines

## LiDAR

LiDAR uses an infrared scanning laser mounted in an aircraft to measure the distances from the aircraft to the ground. Using a Global Positioning System and an Inertial Measuring Unit, the system accurately plots positions, shapes and elevations. The resulting terrain model can be used for a wide variety of applications – such as engineering design, volumetric calculations, tree heights etc.

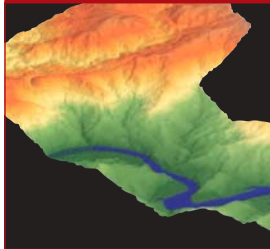
Using LiDAR, mapping projects that would traditionally take years to complete, can be finished in months or even weeks. In addition, LiDAR provides broader, area-based data instead of the usual narrow, corridor-based data. This gives a bigger picture, and frequently a better solution and a lower cost.

### Bun Dang City, Korea



The measured heights recorded by this Digital Terrain Model (DTM) of an urban area are accurate to within 20 cm. Comparable land surveying measurements would take years to complete at much higher cost.

### Sabah, Malaysia



The measurements shown in this DTM are accurate to within 30 cm. They allowed civil engineers to redesign a road location to reduce the risk of landslides and improve safety on a major road.

## Laser Intensity Mapping



LiDAR mapping technology can also be used to deliver our latest product: Laser Intensity Maps, which significantly enhance the quality of data interpretation.

laser range-finder, and position and orientation measurement systems. Highly automated post-processing converts this data into a final digital orthoimage in far less time than is needed to produce comparable image-maps using hard-copy or digital photogrammetric techniques.



## CCD Orthophotography

CCD Orthophotography captures content-rich image data from an aircraft. The technology employed combines an integrated digital image camera, a scanning

*Both these images distinguish clearly between vegetation, water and manmade structures such as buildings and roads.*

## Other Services

LaserMap Asia is backed by leading edge Canadian technology and expertise.

In addition to LiDAR, Laser Intensity Mapping and CCD Orthophotography, LaserMap offers a complete range of geomatics services, from traditional land and aerial surveys to GIS (Geographical Information Systems) and remote sensing.

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