

Geospatial Modeling & Visualization

A Method Store for Advanced Survey and Modeling Technologies

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Optech ILRIS 3D

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The Intelligent Laser Ranging Imaging System (ILRIS-3D), manufactured by [Optech, Inc.](#), is an imaging system that offers direct-to-digital 3D models of any scene. The scanner is about the size of a motorized total station, with an on-board digital camera and a large-format LCD viewfinder. The ILRIS-3D has a visual interface similar to that of a digital camera. The unit is portable, weighing 12 kg and it can easily be used in the field by a single person. As the laser is Type 1, it can be safely used in all settings. With a 20% reflectance surface it has a range of 3m – 1

km. Accuracy in the X,Y and Z dimensions is +/- 10 mm at 100 m. Point cloud data are captured at 2,000 points/second. A typical scene with adjacent point spacing can be fully scanned in 10-15 minutes, capturing 1.2 to 1.8 million points.

Detailed technical specifications for the instruments are available [here](#). More details are provided at the [Optech Web site](#).



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