RIEGL
LASER MEASUREMENT SYSTEMS

2010-10-04

PRESS RELEASE

V-Line Technology for Mining Applications: Long Range Terrestrial Laser Scanner *RIEGL* VZ-1000

As a result of *RIEGL*'s current R&D efforts, the new *RIEGL* VZ®-1000 high-performance Terrestrial Laser Scanner for long range applications is launched at INTERGEO 2010 in Cologne. The new scanner is especially qualified for surveying in open pit mining.

The *RIEGL* VZ-1000 offers a very long range up to 1400 m, in combination with high-accuracy and high-precision, while still operating in Laser Class 1. Obviously, considering its operational area, the instrument is dust and splash-proof. State-of-the-art laser technology offers multiple target detection for each single laser shot, and consequently allows achieving superior measurement capability even under adverse atmospheric conditions and excellent penetration of vegetation.

"Bad visibility due to dust is a matter of fact in mining. Furthermore, in open pit mining often large, disused areas are covered with vegetation. Our V-Line technology allows to measure better through dust, and - up to a certain degree - obstructive vegetation can be penetrated, respectively. So what you get is really reliable measurement data", reports Thomas Gaisecker, *RIEGL*'s Manager International Sales and mining expert.

High performance meets user friendliness

As a consequence of its light weight and the integrated Human-Machine Interface (HMI) for stand-alone operation without computer, the *RIEGL* VZ-1000 can easily be operated by a single person in the field. An internal storage capacity of up to 32 Gbyte and the optional add-on rechargeable battery support straightforward, fast and efficient data acquisition.

"The VZ-1000 is especially designed for the requirements of open pit mining. For example, the water and dirt resistant keypad with large buttons – there's no problem to control the instrument even with wet and dirty hands, or while wearing gloves", Gaisecker added.

Integrated inclination sensors, laser plummet, and compass provide additional data, enlarging the possibilities of data processing. An integrated GPS receiver, with antenna, allows smooth integration in mobile scanning applications; and for combined photogrammetric applications, the scanner can be equipped with a high-resolution digital camera.

Tested in the field

During the last months the *RIEGL* VZ-1000 was already tested in numerous long-range applications.
One of the first users reported: "*The new scanner works extremely fast and efficient, and it is so easy to use. There is no doubt, the VZ-1000 is the way to minimize time and costs for outside measurements, providing excellent data for further processing."*

First devices have been delivered for instance to CR Kennedy Pty Ltd, and are already in operation in Australian open pit mining - not only fully satisfying but even exceeding customers' expectations.

Further information:
***RIEGL* Laser Measurement Systems GmbH**, 3580 Horn, Riedenburgstraße 48
Phone: +43 2982 4211, Fax: +43 2982 4210, e-Mail: office@riegl.com
www.riegl.com

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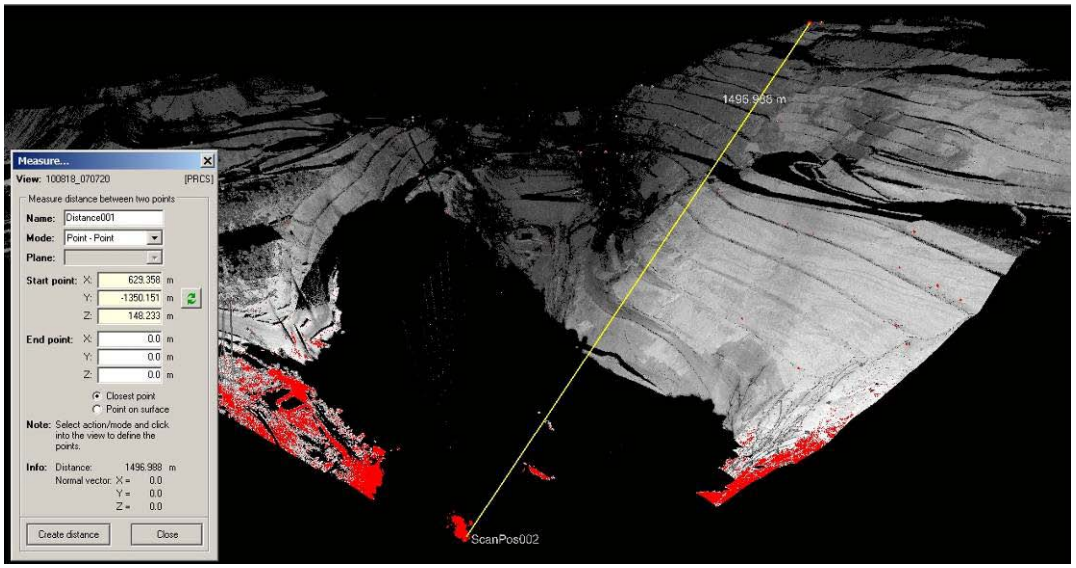
RIEGL VZ-1000 exceeding the expectations in Australian open pit mining



RIEGL VZ-1000: Excellent measurement data in long range applications

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***RIEGL* Laser Measurement Systems GmbH**, 3580 Horn, Riedenburgstraße 48
Phone: +43 2982 4211, Fax: +43 2982 4210, e-Mail: office@riegl.com
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