

GLS-2000 SERIES MULTI-FUNCTIONAL 3D LASER SCANNER





Complete GLS-2000 Solution

- Fast, precise scanning
- Full dome field-of-view (FOV)
- World's first direct height measurement
- Surveyor-style backsight orientation

Capture reality on your terms

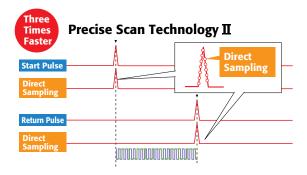
The GLS-2000 series of scanners is comprised of three comparable, yet distinct models: the GLS-2000S (short-range), GLS-2000M (medium-range), and GLS-2000L (long-range). Each model is a full-featured scanner that can be effectively deployed to capture existing, as-built conditions based on the measurement range requirements of the application. The innovative capabilities of the GLS-2000 combined with its field rugged design, provide users with a purposeful solution that will stand up to the most extreme work environments.

Versatile and adaptable

The GLS-2000 offers quick, simple and effective ways of capturing 3D point cloud data at high-speed without sacrificing the accuracy desired by today's demanding professionals. With one-button to start scanning, on-board enabled occupation and backsight orientation features, along with MAGNET® Collage software – the GLS-2000 portfolio provides a solution suited to any industry professional wanting the most value from their scanning investment.

Dual cameras – wide-angle and zoom

The GLS-2000 is equipped with dual 5 megapixel cameras – including a 170° wide-angle camera that obtains images at high speed, as well as a 8.9° telephoto camera that is coaxial with the measuring axis.



Precise Scan Technology II

With three times faster (time-of-flight) pulse signals compared to previous GLS models, the GLS-2000 produces a clear signal waveform enabling more precise signal processing. Employing an ultra-high-speed ADC (analog-digital converter) along with a direct sampling technique, Precise Scan Technology II enables signal extraction resulting in reduced noise and high-accuracy data.







System Performance Maximum Range (at 90% reflectivity) GLS-2000S 130 m (High Speed) GLS-2000M 350 m (Standard) GLS-2000I 500 m (Standard) Single Point Accuracy Distance 3.5 mm (1-150 m), Angle 6" Tilt Sensor Type Liquid 2-axis tilt sensor +/- 6' Range Target Detection 3" at 50 m Accuracy **Laser Scanning System** Type Pulse (Time of-Flight); Precise Scan Tech. II Laser Class 3R (High / Standard) 1M (Low Power) Scan Rate Up to 120,000 pts/sec Spot Size ≤ 4 mm at 20 m (FWHM) Field of View 360° H / 270° V Color Digital Imaging Wide-angle 170° Diagonal Telephoto 11.9° H / 8.9° V **Scanning Control** Control System On-board Display 3.5" Touch Screen Data Storage SD Card **Physical and Environmental** Operation Temp 23°F to 113°F (-5°C to 45°C) Storage Temp -4°F to 140°F (-20°C to 60°C) Dust / Humidity IP54

MAGNET Collage and MAGNET Collage Web

A powerful, yet simple way to process and combine mass data sets in one software environment, MAGNET Collage makes it easy to manage your point cloud data. MAGNET Collage Web is a web service for sharing and collaborating with 3D point clouds.



Processing point cloud data

After field work is complete, MAGNET Collage supports importing, viewing, and cleaning of collected point cloud data – providing multiple tools for registering, then geo-referencing scans to survey control.

Extracting objects

Tools for creating and editing objects such as polylines, meshes, edges, and planes are easily accessed. The region selection tool is especially useful for isolating surfaces such as roadways and building walls, floors, and ceilings.

Export to industry applications

Exporting clouds or objects to third-party design and analysis applications is simple. Topcon offers seamless workflows with third-party software.



24 lbs. (11 kg) with

batteries and tribrach

Weight

For more information: topconpositioning.com/gls-2000

Specifications subject to change without notice. @2019 Topcon Corporation All rights reserved. 7010-2152 E 3/19