



# GeoSight GSM-16

## PERFORMANCE

Data acquisition time	4 min, standard scan
Real time registration	Automatic point cloud data
Infilling	low, medium, high options

## PHYSICAL DATA

Housing	Hard anodized aluminum frame with stainless steel wear rings
Dimensions	Scanner (no extension) 65 mm (diameter) x 1600 mm
	Scanner (with extension) 65 mm (diameter) x 2490 mm
	Control box 330 mm x 300 mm x 150 mm
Weight	Scanner (no extension) 9.3 kg
	Scanner (with extension) 12.0 kg
	Control box (with batteries) 4.0 kg
Operating Temperature Range	-30° to +85°C
Water and Dust	Designed to meet IP67

## POWER

Battery (in control box)	2 x 20 V MAX Dewalt™ rechargeable Li-Ion batteries
Field changeable	Yes (2 batteries supplied per system)
Duration	6 hours, regular use

## DATA OUTPUT & SOFTWARE

Format	Point cloud, DXF, CSV
Software package	GSM-16 Control
Processing software	AutoCAD compatible

## SCANNING

Type	8 segment solid-state LiDAR
Ocular safety	Class 1 laser product. IEC 60825-1:2014 (Third edition)
Wavelength	905 nm
Field of view	360° x 360°
Range	Min. 0.02 m - Up to 60 m
Range with ocular inclusions (dust or fog)	Up to 40 m
Distance precision	6 mm
Distance resolution	10 mm
Angular accuracy	0.3°
Measurement rate (in KHz)	10.0

## IMU

Azimuth drift	0.5° / min. (in raw data)
Depth accuracy	0.04 m (over 20 m)
	Custom multi-sensor dead-reckoning system
	Post process closed-loop correction

## VIDEO IMAGING

Built-in camera	150° wide angle
Video resolution	1200 TVL (1280 x 1024)
Video recording resolution	720P
LED lighting	125 Lumens