

### KEY FEATURES

Versatile, portable, and easy-to-use

360° indoor and outdoor scanning

700 m addressability

Real-time true-color acquisition

Integrated Surveying™ solution with GPS and optical total station data



### BROADER BUSINESS OPPORTUNITIES

The Trimble® GS Series™ 3D Scanner captures coordinates and texture data through leading-edge technology and unique features, creating opportunities for surveying activities not possible with traditional methods or low-performance scanners. The GS Series offers extreme versatility to meet the challenges of many existing and new market opportunities. It guarantees data sets that underpin advanced and compelling deliverables via Trimble's 3D data-editing office software.

### UNIQUE, POWERFUL FEATURES

Some of the powerful features offered by the GS Series include motorized indoor and outdoor scanning through 360°, and optimized performance up to 200 m (Trimble GS200™). Trimble's unique OverScan™ technology enables data capture up to 350 m (Trimble GS200).

On-board video technology provides real-time true-color acquisition, panoramic snapshot capability for enhanced scene framing, and multiple zoom factors for high-resolution image acquisition.

### INCREASED PRODUCTIVITY

The GS Series' accuracy and speed, along with flexible automatic or user-definable scan parameters, can save up to 80% of time and labor resources in many surveying applications, particularly when combined with Trimble's 3D data-editing office software. With the GS Series' top adaptor, experience Trimble's Integrated Surveying solution, which combines scanning, GPS, and optical total station data for exceptional efficiency in the field and office.

Because it is compact and lightweight with fast set-up, the GS Series is extremely maneuverable in the field. One-person operation is possible, which saves labor costs even further.

The system is also WiFi-ready, and can be controlled by the Trimble Recon™ controller running the Microsoft® Pocket PC operating system. Run Trimble data collection software together with any other Pocket PC applications designed to enhance your business.

### FAST RETURN ON INVESTMENT

The Trimble GS Series 3D Scanner is ideal for everyday use in a variety of applications, so you can achieve return on your investment quickly.

Further ensure your rate of return with industry-leading on-board intelligence. It offers enhanced data pre-processing, customizable parameter setting, auto-focus management, and dynamic filtering. And stay up-to-date on these and other functionalities with regular high-level firmware upgrades.

# TRIMBLE GS SERIES 3D SCANNER

## THE TRIMBLE GS200 AND TRIMBLE GS101 3D SCANNERS

Figures shown are for the Trimble GS200. Figures for the Trimble GS101™ are shown in parentheses.

### GENERAL

Instrument type . . . . . Long-range laser mapping system  
 Metrology method . . . . . Time of flight  
 User interface . . . . . Trimble Recon, Notebook PC  
 Data interface . . . . . Network TCP/IP, Wireless WiFi (optional)

### SYSTEM PERFORMANCE

Addressability . . . . . 700 m (400 m)  
 Range using OverScan . . . . . 2–350 m (200 m)  
 Standard range . . . . . 2–200 m (100 m)  
 Scanning speed . . . . . up to 5000 points per second  
 Standard deviation

Trimble GS200 and Trimble GS101						
Range (m)	5	25	50	100	150 <sup>1</sup>	200 <sup>1</sup>
Typical values <sup>2</sup> (mm)	1.4	1.4	1.4	2.5	3.6	6.5
99% albedo						

Multishot . . . . . yes: user-definable number of shots per point  
 Minimum resolution . . . . . 3 mm @ 100 m (32 µrad)  
 Field of view  
     Horizontal . . . . . 360°  
     Vertical . . . . . 60° (angle included)  
 Laser type . . . . . pulsed  
 Laser color . . . . . green  
 Safety . . . . . Class 2 (21 CFR §1041.10) / Class 3R (IEC 60825-1)  
 Laser beam diameter . . . . . 3 mm @ 50 m  
 Autofocus . . . . . yes  
 On-board video . . . . . 768 × 576 color resolution  
     real-time video transmission  
 Video zoom factor . . . . . up to 5.5 times  
 Video snapshot . . . . . yes: automatic picture mosaic  
     9 megapixels max. resolution  
 Point capture modes . . . . . X Y Z  
     X Y Z, point orientation  
     X Y Z, returned intensity (8 bits – 256 grayscale)  
     X Y Z, RGB true color (8 bits per channel)  
     X Y Z, orientation, returned intensity, RGB true color  
 Geo-referencing . . . . . yes: using standard surveying tripod

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### PHYSICAL

**Scanner**  
 Dimensions . . . . . 340 mm D × 270 mm W × 420 mm H including handles  
 Weight . . . . . 13.6 kg (29.9 lb)

**Power Supply Unit**  
 Dimensions . . . . . 105 mm D × 200 mm W × 65 mm H  
 Weight . . . . . 1.5 kg (3.3 lb)

**Transportation Box**  
 Dimensions . . . . . 645 mm D × 490 mm W × 435 mm H (airline checkable)  
 Weight . . . . . 12.8 kg (28.2 lb)

**Environmental**  
 Operating temperature . . . . . 0 °C to 40 °C  
 Storage temperature . . . . . -20 °C to 50 °C  
 Sealing . . . . . IP53  
 Shock . . . . . 2M2 / M3 transportation standard compliant  
 Humidity . . . . . non-condensing atmosphere

**Electrical**  
 Power supply . . . . . AC 90 V AC–240 V AC, 50 Hz–60 Hz  
     DC 24 V, nominal

### Standard Accessories

Transportation . . . . . transportation case (airline checkable)  
 Protective window cover  
 Registration targets . . . . . 50 Trimble reflective targets (adhesive)  
 Power . . . . . AC Power supply  
 Cables . . . . . AC and DC power cords  
     Ethernet-to-Notebook or Ethernet-to-Trimble Recon  
 Trimble 3D Scanner Field Software Kit<sup>3</sup> . . . . . Trimble Recon, Notebook PC

### Options

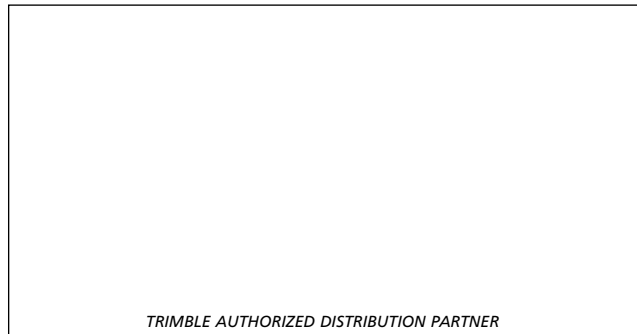
Additional registration targets . . . . . Pack of 10 Trimble reflective targets  
     (adhesive)  
 Car battery cable kit . . . . . 10 m  
 Backpack

### Operating System Requirements

Trimble Recon<sup>3</sup>  
 Operating system . . . . . Microsoft Pocket PC  
 Processor . . . . . 400 MHz Intel PXA250 XScale CPU  
 RAM . . . . . 64 MB SDRAM, 128 MB Flash storage or higher  
 Notebook PC  
 Operating system . . . . . Microsoft Windows® XP  
     (Professional or Home edition, SP1 or higher)  
     Windows 2000 (SP2 or higher), Windows NT 4.0 (SP6)  
 Processor . . . . . 1 GHz Pentium III or similar  
     (2 GHz Pentium IV or higher recommended)  
 RAM . . . . . 256 MB (1 GB or higher recommended)  
 Display . . . . . 64 MB 3D Open GL graphic board  
     (128 MB or higher recommended)

1 Trimble GS200 only. Not applicable to Trimble GS101.  
 2 Figures given for standard data capture of four shots, on distance measurement.  
 3 The software is also compatible with HP iPAQ Pocket PC with Nexipak by Nexian.

Specifications subject to change without notice.



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