CATALOGUE

PART OF HEXAGON

GEOMAX

works when you do

About us

At GeoMax, we provide a comprehensive portfolio of integrated solutions by developing, manufacturing and distributing quality construction and surveying instruments and software.

Our comprehensive product portfolio includes easy-to-use, yet highly productive total stations, GPS/GNSS instruments, laser scanners, 3D measuring systems, software, lasers, levels, machine guidance and cable location systems, levels and accessories.

Our products are known for robustness, ease of use and outstanding price-to-performance ratio. From our base in Europe, our technology is supported by a broad sales and service network covering all continents and more than 100 branches.

GeoMax is part of Hexagon (Nasdaq Stockholm: HEXA B; hexagon.com), a leading global provider of information technologies that drive quality and productivity improvements across geospatial and industrial enterprise applications.

HEXAGON

GeoMax portfolio

GEOMAX TOTAL STATIONS

Boost your daily performance with these easy-to-use, yet highly productive total stations for a wide range of applications such as surveying, engineering and construction.


GEOMAX
acc ess
1 Apps
2 Data
3 Settings
4 Survey
5 Transfer
6 Tools

GeoMax Zoom90 Series

The ultimate one-man system

STReAM360: FULLY ROBOTIC

Scout: Scans the entire working area within seconds to quickly find the target.

TRack: Continuously track targets. Once locked onto, the instrument remains accurately aimed at the moving target.

AiM: Aims accurately at any prism, without needing to look through the telescope. Measurements are performed automatically with consistently high and repeatable dependability.

X-MOTION™ HYBRID DRIVES

Zoom90 incorporates highly innovative X-motion hybrid drives, promoting automation performance compared to conventional drives.

It will follow your target at 90 km/h at 100 m distance.

NavLight™

Fitted as standard in the telescope, the NavLight is an efficient alignment aid, helping to speed up work while setting out.

Its flashing red and yellow lights will guide you quickly and exactly to the line of sight.

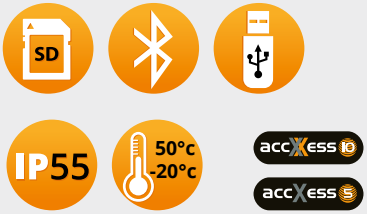
accXess™ EDM TECHNOLOGY

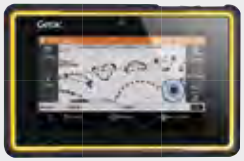
GeoMax's accXess EDM Technology provides leading reflectorless measurements up to 1000 m.
The extra small laser footprint and the sophisticated signal-processing technology, ensure you accuracy - regardless of the distance or conditions.

Technical data

Accuracy	5 ", 2 ", 1 "
Prism (range, accuracy)	3500 m, 1 mm + 1.5 ppm
Prism, long-range (range, accuracy)	10000 m, 5 mm + 2 ppm
Non-prism (range, accuracy)	1000 m / 500 mm, 2 mm + 2 ppm*
Scout range	300 m at round prism
TRack range	800 m at round prism
AiM range	1000 m at round prism

* > 500 m: 4 mm + 2 ppm





MicroSurvey®
Carlson®
X·PAD

OPEN CONNECTIVITY

Combine your preferred software and data logger to perform remote control tasks with increased productivity. Zoom90 uses the Windows CE operating system, which enables a variety of powerful field software to be run, offering you freedom to choose software that best suits your needs. Full VGA colour touch display will also provide you with superior performance and full graphic capability.

	Scout	TRack	AiM	accXess 10	accXess 5
Robotic (R)	✓	✓	✓	✓	✓
Servo (S)		✓	✓	✓	✓

GeoMax Zoom35 Pro Series

Highest performance on every level.

SUPERIOR accXess10 EDM

With the proven accXess10 technology, the Zoom35 Pro features an intelligent distance measurement engine designed for outstanding speed and highest accuracy even on extremely long ranges. This means a wider operational coverage and significantly less time lost with switching set ups.

EASY CONNECTIVITY

The GeoMax Zoom35 Pro manual total station includes an environmentally protected USB port, internal Bluetooth® and a cable connection port that allow for fast, simple and dependable data transfer between the instrument and your PC or handheld controller using easy to connect Plug and Play technology.

COLOUR TOUCH SCREEN

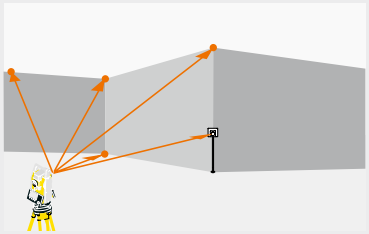
The extra large 3.5" colour touch screen with Q-VGA display provides for brilliant readability even in strong sunlight. Together with an extra-large high-resolution display, the easy-to-use graphical interface makes regular tasks such as stake-outs easier and more productive than ever before.

Technical data

Hz, V Standard deviation (ISO 17123-3)	1 ", 2 ", 3 ", 5 "
Compensator system	Quadruple-axis compensation
Measuring range with prism	10,000 m
Accuracy on reflector (Fine/Tracking)	2 mm + 2 ppm / 3 mm + 2 ppm
Reflectorless range accXess10	>1,000 m
Accuracy reflectorless	2 mm + 2 ppm (>500 m 4 mm + 2 ppm)
Communication	USB, Bluetooth, USB Host, RS232

GeoMax Zoom35 Pro accXess10

Distance measurement to reflector and 1,000 m reflectorless measurement



APPLICATIONS

Every Zoom35 Pro Total Station comes with a complete range of powerful applications:

- **Survey and coding**
- **Set-up with resection**
- **Set out**
- **Area 3D and volume**
- **Remote elevation**
- **Construction**
- **Reference line**
- **Reference arc**
- **Grid setout**
- **Column offset**
- **CoGo routines**
- **Missing line measurement**
- **Two prism offsets**
- **Road 2D**
- **Road 3D**

GeoMax Zoom30 Pro Series

A total station for all those demanding high performance and ease.

EASY CONNECTIVITY

The GeoMax Zoom30 Pro manual total station includes an environmentally protected USB port, internal Bluetooth® and a cable connection port that allow for fast, simple and dependable data transfer between the instrument and your PC or handheld controller using easy to connect Plug and Play technology.

COLOUR TOUCH SCREEN

The extra large 3.5" colour touch screen with Q-VGA display provides brilliant readability even in strong sunlight. Together with an extra-large high-resolution display, the easy-to-use graphical interface makes regular tasks like stake-outs easier and more productive than ever before.

HIGHEST FUNCTIONALITY

The Zoom30 Pro combines faster stake-outs with NavLight™ and outstanding non-prism distance measurement over 600 m. With the NavLight™ alignment aid, the rodman can quickly align himself to the line-of-sight without needing instructions.

GeoMax Zoom30 Pro accXess6

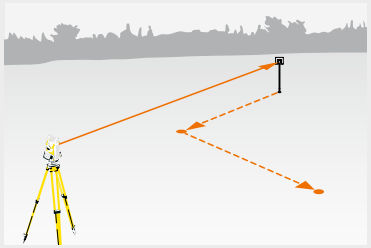
Distance measurement to reflector and 600 m reflectorless measurement

GeoMax Zoom30 Pro accXess4

Distance measurement to reflector and 400 m reflectorless measurement

Technical data

Hz, V Standard deviation (ISO 17123-3)	2", 3", 5", 7"
Compensator system	Quadruple-axis compensation
Measuring range with circular prism	3,500 m
Accuracy on reflector (Fine/Tracking)	2 mm + 2 ppm / 3 mm + 2 ppm
Reflectorless range accXess 6 / accXess 4	600 / 400 m (white target)
Accuracy reflectorless	2 mm + 2 ppm (>500 m 4 mm + 2 ppm)
Communication	USB, Bluetooth, USB host, RS232



POWERFUL APPS

Every Zoom30 Pro series instrument comes with a complete range of powerful applications:

- **Survey and coding**
- **Set-up with resection**
- **Set out**
- **Area 3D and volume**
- **Remote elevation**
- **Construction**
- **Reference line**
- **Reference arc**
- **Grid setout**
- **Column offset**
- **CoGo routines**
- **Missing line measurement**
- **Two prism offsets**
- **Road 2D**
- **Road 3D**

GeoMax Zoom20 accXess Series

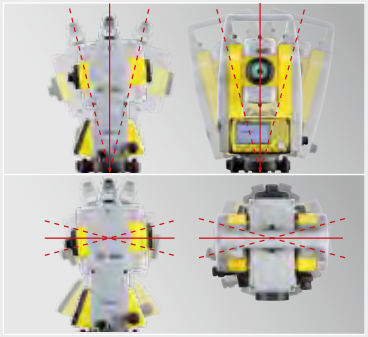
Class-leading reflectorless measurements.

accXess™ EDM TECHNOLOGY

GeoMax's accXess EDM technology delivers outstanding dependability and class leading accuracy with and without a prism in even the most difficult conditions.

EASY CONNECTIVITY

The GeoMax Zoom20 accXess includes an environmentally protected USB port and a cable connection port that allow for fast, simple and dependable data transfer between the instrument and your PC or handheld controller using easy to connect Plug and Play technology.



QUADRUPLE-AXIS COMPENSATION

With advanced electronic compensators, GeoMax instruments are always level and collimation errors corrected. Quadruple-axis compensation is standard on all GeoMax total stations which means you can be sure of maximum reliability with both horizontal and vertical angles.

GeoMax Zoom20 accXess4

Distance measurement to reflector and 400 m reflectorless measurement.

Technical data

Accuracy	1 ", 2 ", 3 ", 5 "
Compensator system	Quadruple-axis compensation
Prism range / accuracy	3,500 m / 2mm + 2ppm
Long range / accuracy	10,000 m / 5mm + 2ppm
Reflectorless	2 mm + 2 ppm
Communication	USB, RS232

COMPLETE SYSTEM

GeoMax not only provides you with a highly productive instrument but also with a complete set of accessories to meet your demanding tasks. With everything in one box.

POWERFUL APPS

Developed to take on a multitude of daily tasks, the Zoom20 accXess offers a wide range of highly productive applications from setting up, measuring, setting out and checking, be certain that GeoMax “works when you do”.

GeoMax Zoom20 Pro Series

Withstanding the toughest environments.

ONBOARD SOFTWARE

Easily control your data with the flexible and easy-to-use onboard software. Areas and volumes, reference elements, CoGo and more can be accessed using the large graphic display. Import and export in the format you want for total control and flexibility.

accXess™ EDM TECHNOLOGY

GeoMax's accXess EDM technology delivers outstanding dependability and class leading accuracy with and without a prism in even the most difficult conditions. Reflectorless accXess EDM technology is available as accXess2 (250 m) and accXess4 (400 m) on the GeoMax Zoom20 Pro series.

BUILT FOR ALL ENVIRONMENTS

The Zoom Pro withstands the toughest environments. With the optional polar certification, the Zoom Pro is individually tested at – 30° C. With our extensive factory tests, you can be sure that GeoMax "works when you do!".

accXess 4

Technical data

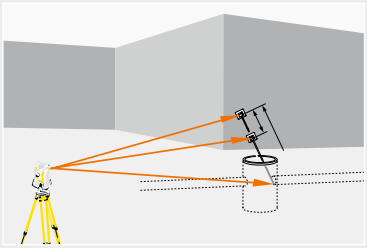
Hz, V Standard deviation (ISO 17123-3)	2", 3", 5", 7"
Compensator system	Quadruple-axis compensation
Measuring range with circular prism	3,500 m
Accuracy on reflector (Fine/Tracking)	2 mm + 2 ppm / 3 mm + 2 ppm
Reflectorless range accXess 4 / accXess 2	400 / 250 m (white target)
Accuracy reflectorless	2 mm + 2 ppm (>500 m 4 mm + 2 ppm)
Communication	USB, RS232

GeoMax Zoom20 Pro accXess4

Distance measurement to reflector and 400 m reflectorless measurement.

GeoMax Zoom20 Pro accXess2

Distance measurement to reflector and 200 m reflectorless measurement.



POWERFUL APPS

Every Zoom30 Pro series instrument comes with a complete range of powerful applications:

- **Survey and coding**
- **Set-up with resection**
- **Set out**
- **Area 3D and volume**
- **Remote elevation**
- **Construction**
- **Reference line**
- **Reference arc**
- **Grid setout**
- **Column offset**
- **CoGo routines**
- **Missing line measurement**
- **Two prism offsets**

GeoMax Zipp20 Open WinCE® Series

Fully open Windows® CE, operate the field software of your choice.

TOTALLY OPEN WinCE®

The Zipp20 is a fully open WinCE® total station. Featuring GeoMax FieldGenius, GeoMax Layout Pro, X·PAD, Carlson SurvCE or any localised field software, the Zipp20 allows you to work as best fits your needs. WinCE® even allows you to run your own developments and to personalise your system.

TOTALLY CONNECTED

With integrated Bluetooth® and the capability to connect to any tablet or data logger, the Zipp20 provides you with the highest flexibility. Data and file exchange using the USB stick makes working with the Zipp20 simple and easy.

TOTALLY FEATURED

All the openness and connectivity combined with a system offering a colour & touch display, long range non-prism measurement and all your favourite Windows® CE applications make the Zipp20 the total station that "works when you do."

GeoMax Zipp20 R2

Distance measurement on reflector and 250m reflectorless

GeoMax Zipp20 R4

Distance measurement on reflector and 400m reflectorless

Technical data

Accuracy (ISO 17123-3)	2", 5"
Range with prism	3,000 m
Non-prism range (Zipp10 R Pro)	250 m / 400m (white target)
Accuracy with prism	2 mm + 2 ppm
Non-prism accuracy	3 mm + 2 ppm
Measuring time (Tracking/Quick/Fine)	0.33 sec / 2.0 sec / 2.4 sec
Reflectorless measuring time	3.0 – 6.0 sec

Zipp20 - Open WinCE® Series

Featuring GeoMax FieldGenius, GeoMax Layout Pro, X·PAD, Carlson SurvCE or any localised field software, the Zipp20 allows you to work the way that best suits your needs.
With integrated Bluetooth® and the capability to connect to any tablet or data logger, the Zipp20 provides you with the highest flexibility.
All this combined with a system offering a colour and touch display, long range non-prism measurement and all your favourite Windows® CE applications make the Zipp20 the total station that "works when you do."

Carlson

MicroSurvey®

X·PAD

GeoMax Zipp10 Pro Series

Your economic choice when price counts as much as performance.

EASY CONNECTIVITY

The Zipp10 Pro features a simple transfer using a USB stick of all your data and files. Transferring data between different total stations or the office is now easier than ever and liberates you from the need to use any PC.

PERFORMANCE, ROBUSTNESS

Providing a 250 m reflectorless measurement range, a long prism range of 3,000 m, a coaxial visible laser beam combined with a dust and water resistant sealed durable housing, makes the Zipp10 Pro a top performer in its class.

MULTIFUNCTIONAL KEYBOARD

With an ergonomic full numeric keypad for rapid navigation and data entry provides for direct access to apps and fast navigation. The large high-resolution bright display provides brilliant readability even in strong sunlight.

GeoMax Zipp10 Pro

Distance measurement on reflector

GeoMax Zipp10 R2

Distance measurement on reflector 250 m non-prism distance measurement

Technical data

Accuracy (ISO 17123-3)	2”, 5”
Range with prism	3,000 m
Non-prism range	250 m
Accuracy with prism	2 mm + 2 ppm
Non-prism accuracy	3 mm + 2 ppm
Measuring time (tracking/quick/fine)	0.33 sec / 2.0 sec / 2.4 sec
Reflectorless measuring time	3.0 – 6.0 sec

THE COMPLETE TOTAL STATION

With its 250 m reflectorless measurement range, 2” and 5” angle accuracy, large bright display and easy-to-use applications, the Zipp10 Pro is your ideal tool for all surveying or construction tasks.

The Zipp10 Pro is the world’s first total station in its class featuring easy transfer via a USB stick of all your data and files. Transferring data between different total stations or the office is now easier than ever and liberates you from the need to use any PC. Keeping your total station where you need it – in the field! Zipp10 Pro – “works when you do".

APPLICATIONS

- Data collect and coding
- Set out
- Resection
- Area and volume
- Remote elevation
- Missing line
- Road

GEOMAX GNSS

Ensure ultimate reliability with GeoMax GNSS systems under the most severe conditions. Providing true cost-effectiveness, these systems are equipped with the latest GNSS technology in the field increasing your productivity and taking your performance to the new level.


1.37
1.40
1.45
1.50
1.55

GeoMax Zenith35 Series

Full spectrum of satellite signals, unlimited connectivity and Tilt&Go functionality.

EASY TILT & GO

A corner of a building or even a gully under a parked car? Measure points where satellite signals are blocked by eaves or canopies? No problem with Zenith35 TAG - just Tilt & Go! Free yourself from working with your pole kept strictly vertical and tilt it up to 30°, and still maintaining GNSS accuracy.

FULL CONNECTIVITY

Remove complexity with access from any device connected to the internet, independent of your location.

Connect up to 10 rovers simultaneously with Zenith35 DynDNS technology.

MAXIMUM POSITIONING

Equipped with state-of-the-art NovAtel satellite receiver technology, the Zenith35 provide maximum performance. The AdVance® RTK technology developed by NovAtel ensures maximum positioning availability under challenging conditions.

	GSM - UHF	Tilt&Go
Zenith35	✓	
Zenith35 TAG	✓	✓

Technical data

AdVance® technology	High fix availability + reliability
Quality modes	ExtraSafe, Standard
Channels	120, dual frequency
Satellite signals	GPS L1, L2, L2C, L5 (opt); GLONASS L1, L2; BeiDou B1, B2; Galileo*; SBAS
Positioning rate	5Hz, 20Hz (opt)
Accuracy static H / V	3 mm ± 0.5 ppm (rms) / 5 mm ± 0.5 ppm (rms)
Accuracy kinematic H / V	8 mm ± 1 ppm (rms) / 15 mm ± 1 ppm (rms)
Accuracy static long H / V	3 mm + 0.1 ppm (rms) / 3.5 mm + 0.4 ppm (rms)
Accuracy tilt sensor	0.1° - 3.4 mm at 2 m pole height

* The optional Galileo tracking will be made available once there are sufficient of these satellites.
The position accuracies depend on various factors including the number of satellites, geometry, ionospheric conditions, multipath, etc.


Tilt&Go
NovAtel
ON BOARD

GeoMax Zenith25 Pro Series

Ultimate performance, even in extreme environments.

EXTREMELY RUGGED

The Zenith25 Pro GNSS series provides IP68 dust- and waterproofness, enabling use even in extreme environments. The system is robust enough to withstand a 2 m topple over and a complete submersion under water.

TRULY FUTURE-PROOF

With its internal UHF, its 3.75G Penta band GSM and the full support of GPS, GLONASS, Galileo, BeiDou and SBAS systems, the Zenith25 Pro Series is truly future-proof and suitable for any application.

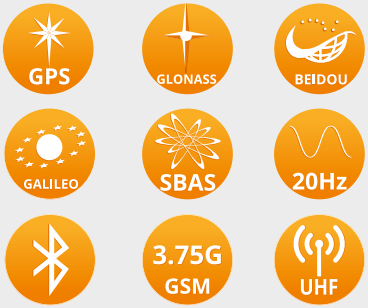
POWERFUL HANDHELD

The PS336 series is a high performance, robust handheld for real time communications, even in harsh conditions. With Windows® embedded, this data logger provides an open system to any compatible software, including GeoMax FieldGenius, GeoMax Layout Pro and X·PAD.

Technical data

AdVance® technology	High fix availability + reliability
Channels	120, dual frequency
Satellite signals	GPS L1, L2, L2C; GLONASS L1, L2; BeiDou B1, B2; Galileo*; SBAS
Positioning rate	5 Hz, 20Hz (opt)
Accuracy static H / V	3 mm ± 0.5 ppm (rms) / 5 mm ± 0.5 ppm (rms)
Accuracy kinematic H / V	8 mm ± 1 ppm (rms) / 15 mm ± 1 ppm (rms)
Accuracy static long H / V	3 mm + 0.1 ppm (rms) / 3.5 mm + 0.4 ppm (rms)

Measurement accuracy and reliability are dependent on various factors including satellite, geometry, obstructions, observation time, ionospheric conditions, multipath, etc. Figures quoted assume normal to favourable conditions.
* The optional Galileo tracking will be made available once there are sufficient of these satellites.



Q-Lock™ TECHNOLOGY

The Q-Lock™ technology tracks all satellites with the highest available signal strength and performs regular independent checks to ensure that you can work even in challenging environments such as urban canyons or under heavy foliage.

This is all combined in a system robust enough to withstand a 2 m topple over and a complete submersion under water.

NovAtel ON BOARD

GeoMax Zenith10 & 20 Series

Completely flexible systems with all communication devices integrated.

FULLY INTEGRATED GNSS

Zenith10 & Zenith20 are complete and fully integrated satellite positioning systems. They consist of only two main components, a GNSS antenna and a handheld computer that can be set up on a pole or tripod.
noThe integrated wireless technology provides a completely cable-free and light-weight solution that is ready for an entire day's work.

QUALITY GNSS

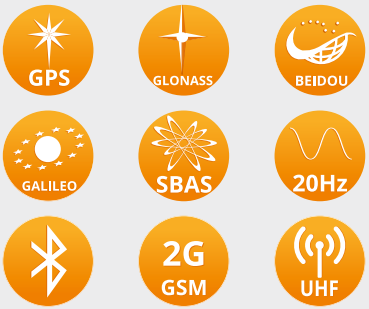
Equipped with state-of-the-art NovAtel satellite receiver technology, the Zenith10 & Zenith20 provide maximum performance. The AdVance® RTK technology, developed by NovAtel, ensures maximum positioning availability under challenging conditions.
Both receivers can track satellite signals of the GPS and GLONASS type. The Zenith20 additionally supports BeiDou and Galileo.

COMPLETE FLEXIBILITY

The Zenith10 & Zenith20 are completely flexible systems, with all of the communication devices integrated into the antenna.
It's easy to switch between the UHF radio to receive correction data from a local reference station and the GSM modem to receive corrections from a regional network. At times when no corrections are available, raw data can be easily logged for post-processing in the office.
The Zenith10 & Zenith20 can also operate as a local reference station, transmitting data either with the internal radio or an external high power transmitter.

Technical data

AdVance® technology	High fix availability + reliability
Channels Zenith10 Zenith20	 72 120
Satellite signals	GPS L1, L2, L2C; GLONASS L1, L2; Galileo*; BeiDou B1, B2 (opt)
Positioning rate	20Hz (opt), 5 Hz
Accuracy static H / V	5 mm ± 0.5 ppm (rms) / 10 mm ± 0.5 ppm (rms)
Accuracy kinematic H / V	10 mm ± 1 ppm (rms) / 20 mm ± 1 ppm (rms)



* The optional Galileo tracking will be made available once there are sufficient of these satellites.
** The position accuracies depend on various factors including the number of satellites, geometry, ionospheric conditions, multipath, etc.

NovAtel
ON BOARD

GEOMAX LASER SCANNER

A rugged and reliable Time-of-Flight laser scanner recommended for all working environments.

GEOMAX MICRO ROBOTIC SOLUTION

Easy-to-use and fast 3D measuring instruments, the Zoom3D Series are ideal for indoor as well as outdoor applications. It can be upgraded to an innovative and user-friendly micro robot.

GeoMax Zoom300

Rugged and dependable time-of-flight laser scanner

ROBUST AND EASY-TO-USE

Simple to use and ready to scan at the press of a button, the Zoom300 can be controlled and operated directly from all kinds of mobile devices with a WLAN connection.
The GeoMax laser scanner works under extreme weather conditions and is water and dust proof.

PERFORMANCE

The Zoom300 supports four scan modes at different resolutions.
Depending on the object and the area to scan, you can define the best resolution to optimise scan time and the size of data output.

SURVEY GEOREFERENCING WITH GPS/GNSS

Now it is possible to use a GPS/GNSS receiver to calculate the scan position and to georeference the point cloud data. Mount a GPS/GNSS antenna on the Zoom300 and the orientation will be calculated from a reference target with known coordinates using a second GPS/GNSS receiver.
The equipment ensures accuracy and precision for all 3D projects using a single 3D reference system.

Technical data

Max / Min range	300m 100% reflectivity (on white target) / 2.5m
Operationg conditions	250m
Vertical / Horizontal field of view	90° (-25° +65°) / 360°
Scan rate	40.000 points/sec
Laser beam divergence	0.37mrad
Resolution	37mm x 37mm 100m
Accuracy	6mm 50m / <10mm 100m

FRAMEWORK

This laser scanner support is particularly useful for the scanning of closed environments such as caves, architectural structures and tunnels, where ceilings are particularly high. It allows the scanner to perform a full surface scan through a 240° rotation.

GeoMax Zoom3D Series

Easy-to-use and fast micro robotic solution.

PLUG AND PLAY SOLUTION

3D measurements have never been so easy and fast. With simple configuration and self-levelling feature, the Zoom3D will speed up your daily work indoors and outdoor.

GET STARTED WITH THE PRESS OF TWO BUTTONS

1. Place your Zoom3D on the floor or on the tripod
2. Turn it on. The Zoom3D automatically levels
3. Connect it to your datalogger and start working!

UPGRADE IT TO A MICRO ROBOT SOLUTION

Save time and resources by upgrading your Zoom3D to a Micro Robotic Solution for all your one-man operations. Its powerful software is equipped with a target recognition technology, automatically aiming and tracking the target mounted on a standard TPS pole. The Zoom3D is the ideal partner for all daily tasks in any small construction site for all daily tasks, from as-built survey to the stake out.

YOUR PERFECT PARTNER FOR INDOOR SOLUTIONS

Easy levelling, plumbing points and staking out - the Zoom3D unique and user-friendly onboard software comes with a full set of features that will speed up your interior applications.
Get fast and exact results can be easily exported in the most common data format and all at the best-price-to performance.

Technical data

Goniometer (Hz/V) range and accuracy	Horizontal 360°; Vertical 250°; 5˝, equates to 1.2 mm @ 50 m
Laser distance meter	Coaxial, visible red laser; Class 2; 650 nm; < 1 mW
Range	0.5 - 50 m
Tie distance accuracy (3D)	Angle and distance combination @10m / 1mm; @30m / 2mm; @50m / 4mm
Tilt sensor self-leveling range	± 3°


Panasonic
X·PAD for Zoom3D
Jobs
Import
Export
Photos
Secure points
Working sheets
version 1.0 - About...

GEOMAX DATA LOGGERS AND GIS HANDHELD

Based on an open platform, just use the software that fits best your requirements and rely on the robustness and precision of these easy-to-use devices.


Panasonic
GEOMAX
Survey-road
09:03
JOB
SURVEY
STAKEOUT
COGO
New/Open job
Points/Measures/C...
Coordinate System
Import data
Panasonic
GEOMAX
X-PAD for Zoom3D
GEOMAX
Power
N 45°57'09.7259" E 12°29'40.6221" 71.291m
H 0.040m
V 0.040m
RTK Fixed
GPS 7
GLS 6
20m
6634
Code
Tools
Measure
Meas. & Store

GeoMax Zenith04 Series

GIS handheld and GNSS data logger.

FULLY EQUIPPED

Zenith04 is equipped with all the features you could possibly want: GPS+SBAS 50 channels receiver, quad-band GSM/ GPRS, Wi-Fi, Bluetooth®, 5 MP camera, full numeric keyboard and much more.

FULL SET OF COMMUNICATIONS

Its full set of communications and features is complemented with the flexibility and ease of running all your applications on Windows Mobile® and using Office Mobile for your daily work.

FULL FLEXIBILITY

Whether you use the ergonomic Zenith04 with its built-in high sensitivity GPS for your GIS applications or you use it as a data logger, easily combining via Bluetooth® to your GNSS antenna and total station, the Zenith04 offers you the full flexibility you need in a handheld.

Technical data

Channels	50, single frequency
Satellite signals tracked	GPS L1, C/A code
RTK accuracy	1.5 m
Standalone accuracy	1-3 m
SBAS	WAAS / EGNOS / MSAS / GAGAN
Operating system	Microsoft Windows Mobile® 6.5
Memory	TF extensible to 32 GB
USB	Mini waterproof USB connector
Wireless	Integrated quad-band GSM/GPRS, phone function
Bluetooth®	Bluetooth® V2.0 support EDR
Wi-Fi	802.11 b/g Wireless LAN
Camera	AutoFocus 5 MP


50 GPS channels
Bluetooth®
and Wi-Fi
3.7" touch
screen
Windows
Mobile® 6.5
Fully
numeric
keyboard
Quad-band
GSM/GPRS
5 MP
camera
Handstrap
Stylus
Rugged
design
33 mm
thick


dtm
11:58
101
100
102
20m
Settings
New
Swap
Delete
GEOMAX
Send
End

GeoMax PS336 Series

Rugged field-ready Windows Mobile® handhelds.

FULLY EQUIPPED

The PS336-E model contains high-speed communication technology for internet connection to all network types. Built-in GPS receiver, E-compass, altimeter and 5M pixel auto-focus camera are neatly integrated into an all-in-one solution.

EXTREMELY RUGGED

The PS336 series is a high performance fully rugged handheld for real-time communications even in harsh conditions. It is rated IP68 dust and waterproof and meets military standards.

FULLY FLEXIBLE

The featured Windows Mobile® provides an open system for any compatible software, such as GeoMax FieldGenius, X·PAD, SurvCE, etc. for full connectivity to all GeoMax devices.

The PS336-E extended model's expansion slot enables the fitting of a long Range Bluetooth® cap which can be used as a remote control in combination with the Zoom90 robotic Total Station.

Technical data	PS336	PS336-E
Wireless LAN	•	•
Internal Bluetooth®	•	•
Micro SD card slot	•	•
Up to 32 GB memory *	•	•
29 keys	•	•
Illuminated keys	•	•
5M pixel autofocus camera		•
48 channels GPS receiver		•
Electronic compass		•
Altimeter		•
Long-range Bluetooth® **		•

* Optional, ** Requires optional long-range Bluetooth® cap

PS336	Standard
PS336-E	Extended

Physical specifications

Weight: 0.53 kg (PS336)
Operating temp.: – 30°C to 60°C
Protection class: IP68 dust- and waterproof / MIL-STD-810G
Humidity: 95 %, non-condensing

Computing platform

Operating system: Windows® Embedded Handheld 6.5
Processor: Texas Instruments 1 GHz
Memory: Up to 32 GB *

Interface

Keyboard: 29 keys, illuminated
Display: 3.5” Full-VGA Quadra-Clear™ technology colour & touchscreen
I/O interface: serial, USB On-The-Go, DC jack

Power supply

Internal battery: Removable Li-Ion 5.6 Ah / 3.7 V
Operating time: Up to 15** hours
LifeSupport™: Battery swap without shutdown

* Optional, **New battery, at 20°C

GeoMax FZ-M1 & FZ-B2

Fully rugged tablets to support the most severe weather conditions.

CONNECTIVITY AND PERFORMANCE

Resistant to challenging working conditions with extreme performance thanks to their flexible configurations, Bluetooth™ and WiFi™ connectivity, and a powerful processor.

DESIGNED FOR FIELD PROFESSIONALS

Their ergonomic and lightweight design naturally fits into your hands, and once there, the Windows™ 8.1 for FZ-MI or Android® 4.4 for the FZ-B2 functionality will boost your performance not matter the challenge you face.

FULLY RUGGED

Outdoor can hide nothing from these tablets. Its multi-touch and sunlight-viewable screen allows you to interact with it without even taking off your gloves. And because accidents in the field can happen, these tablets are also shock resistant and water and dust proof.

Technical data	FZ-M1	FZ-B2
Mobile computing platform	Intel Celeron® N2807 processor 1,58 GHz 1MB L2 Cache	Intel® Celeron 1.83 GHz N2930 processor
Operating system	WindowsTM 8.1 Pro	Android® 4.4
RAM	2 GB	2 GB
Camera 2 MP front / 5 MP rear	•	•
WLAN Intel® Dual Band Wireless - AC7260	•	•
Bluetooth® 4.0 + EDR Class 1	•	•
7” sunlight-viewable WXGA Active Matrix (TFT) IPS LCD with circular polarizer (up to 500cd/ m2 brightness); multi-touchscreen	•	•

Windows 8


Panasonic FZ-M1
X-PAD for Zoom3D
Jobs
2015-7-31-Job1
Measure
Relocation
Import
Export
Line scan
Surface
Settings
Secure
Panasonic FZ-B2
GEOMAX
TPS Survey
14:06
Circular
(0.0 mm)
H 1.800m
Point
E 34.796m
N 35.906m
Z -1.800m
610
608
612
607
604
50.000m
1.800m
50.000m
Point
614
Code
Tools
Measure
Meas. & Store

GeoMax Z710

7” touchscreen tablet for for X·PAD Android

THE CONTROLLER? IT’S UP TO YOU

X·PAD for Android can be supplied with a rugged tablet, featuring a 7” touchscreen with the breadth and brightness to give the display instant clarity, so you can view the data quickly and with minimum effort in all conditions. Or you can also opt to use the X·PAD on your existing tablet or smartphone. It all adds up to maximum flexibility for you, the user.

AUGMENTED REALITY, GET THE FULL PICTURE

How can augmented reality be a useful tool in topographic surveys and stake-out? Here’s how. Simply point the camera to the area of interest and you can immediately see where the points and elements to be staked out are. X·PAD will guide you to the vicinity of the point and then to the exact location. But you can also use augmented reality to see what is not visible, such as underground pipes, cables and connections. X·PAD allows you to integrate reality with your data.

YOUR DATA ON GOOGLE MAPS.

With X·PAD you can see your survey and your design superimposed on a satellite map via Google Maps at any stage. See your position on the map, check the position of your reference points or measure distances and surfaces directly from CAD. This facility offers a revolutionary way of working.

GEOMAX Z710

X·PAD Android on the Z710 tablet can be used for all GeoMax Zenith GNSS antennas as well as manual and motorised Zoom Total Stations.

COMPACT

Built to house a brilliant 7” display, the Z710 comes with 800 g light and is small enough to hold with just one hand, yet big enough to help you get the job done.

The Z710 is specifically engineered to be protected against 2 m drops, shocks, spills, vibration and more. Equipped with tempered glass and a temperature range of – 20°C to 50°C.

Built-in GPS, combined with E-compass and 3-axis accelerometer, the Z710 is the perfect device for anyone using GPS data in the field.

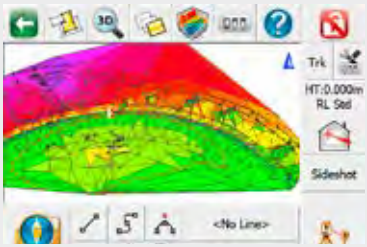
GEOMAX SOFTWARE

All GeoMax software is developed to make your daily work more easy and flexible. Highly innovative contents as well as simple and intuitive interactions with the system.


Carlson
X·PAD
for Android™
MicroSurvey®
Distance
8.141m
Draw
Edit
Info
GEOMAX
Results - Baseline
RA01 - MA16
Project information
Point information

GeoMax FieldGenius Premium

Powerful data collection for all your daily surveying tasks in the field.



DIGITAL TERRAIN MODELING, VOLUMES AND CONTOURING

FieldGenius has the ability to create & utilise DTM surfaces from existing survey data or create a DTM in real-time as the data is collected. The TIN and contours will automatically update with each new shot.

POWERFUL ROADING

FieldGenius roading allows you to manually input or import your alignment data including centerline, vertical and template data. Stake your points along your alignment with confidence.

INSTRUMENT CONTROL AT YOUR FINGERTIPS

Total Station and GPS functions are available on a common and easy-to-use instrument toolbar. Access measuring modes with the click of a button.

All you need in one software

Total Station
Full support

GNSS/GPS
Support for RTK GPS receivers

Advanced
Roading, surfacing, slope staking functions

Robotic
Functionality for robotic total stations

GeoMax Layout Pro

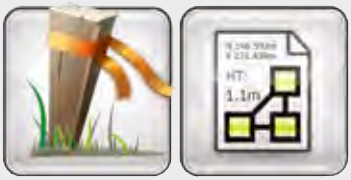
Simple-to-use locating program for construction layout.

CONTRACTOR FRIENDLY

- Code-free linework
- Linework is created automatically
- No need to connect the dots back at the office

EASY LAYOUT

- Stake points/lines by selecting the map screen.
- Select the points for staking, Layout Pro will automatically guide your layout process
- Stake DXF CAD drawings by selecting DXF entities



EASY SETUP

- Begin work quickly
- Reference point routine to establish your total station location
- Reference point checks to confirm and to check your position

ADVANCED DISPLAY AND PLATFORMS

- Map screen to lay out data and collect as-built details
- Easy to use menu structure
- Portrait and landscape devices supported

AS-BUILT AND TOPOGRAPHIC TOOLS

- As-built routines to measure existing conditions for as-built reports or drawings
- Export to other third party applications
- Cut / fill analysis, volume calculations or DTM model creation

ROAD ALIGNMENT LAYOUT

- Input alignment data from paper drawings
- Input horizontal alignment, vertical profiles and templates

GeoMax X·PAD MPS

Multi Positioning Software, a new concept for processing topographical data.

ALL IN ONE

A single software program adds up to a more efficient workflow. With X·PAD is possible to load data from total stations, GPS and laser scanners and calculate, view and manage it without having to export the data from one program to another. You can connect a TPS or GPS survey to each laser scan and view everything together.mThis is real integration!

DATA ORGANISATION

X□PAD easily handles a multitude of different types of data: measurements, coordinates, drawings, and point clouds. The Project Manager's organisation of the data within the same file is orderly and logical. The management of multiple survey sessions and different groups of drawings is made easy as the relevant data can be quickly reviewed at any time.

DATA VISIBILITY

We have developed a powerful graphics engine allowing the user to work in either 2D or 3D. You can view and manage data easily even when displayed as a spreadsheet. Functions for searching, filtering and editing make viewing and managing data straightforward.

GeoMax X·PAD for Android

World's first professional surveying and construction software base on Android.

A new way of working based on the most evolved and technologically advanced platform for mobile devices. X·PAD for Android offers all the known feature of its Windows equivalent and even more. Used in conjunction with the GeoMax manual and robotic Total Stations as well as with the GNSS X·PAD Android will change your way of working.

AUGMENTED REALITY - GET THE FULL PICTURE

Simply point the camera to the area of interest to see the elements to stake.

FINDING YOUR PROJECT- AS SIMPLE AS THAT

Don't remember the name of the file, but know when and where it was done? Simply chose your project via location on Google maps or on the calendar.

YOUR DATA ON GOOGLE MAPS

Superimpose your data on a satellite image via Google maps at any stage of your project to check for reference points or measure directly in the drawing.

GeoMax X·PAD Survey & Construction

Productivity and flexibility.

X·PAD Survey

A perfect combination of a complete solution for all surveying tasks with a simple and easy to learn user interface. Covering all tasks from simple stake-outs via terrain models and volumes, to road stakeout and CoGo X·PAD boosting your productivity and flexibility in the field.

X·PAD Construction

Non-surveyors such as foreman will conduct all the stake-out and measuring routines they face every day independently. Strictly following construction terminology and procedures, X·PAD Construction “speaks” the language of the construction site.

The Windows-based X·PAD Survey and the X·PAD Construction can be used in combination with all GeoMax manual and Robotic Total Stations as well as with GNSS.

COLLECT MORE THAN JUST COORDINATES

X·PAD goes further than measuring the position of the point, you can integrate positions photos, notes and voice comments as well. Quick codes allow you to create your own customer panels for the most used codes.

STAKE OUT WITH YOUR EYES CLOSED

Let the voice guidance navigate you to the target without even looking at the display or use the extra large compass for easy visual navigation. Stake out directly from any imported CAD drawing without the time-consuming conversion process.

SURVEY AND DRAW AT THE SAME TIME

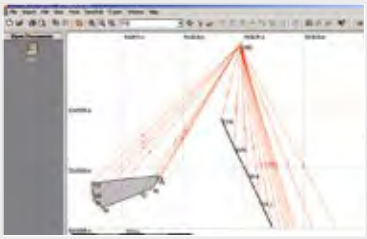
The innovative automatic drawing system operated by feature codes allows you to see the map coming to life, point by point, without requiring long and complex coding.

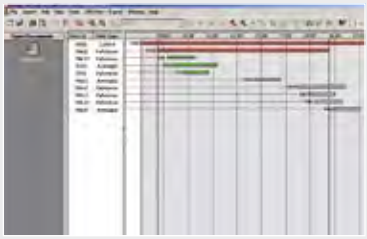
... and still more

- CoGo
- Terrain models and volumes
- Road stake out
- CAD
- As-built check
- Monitoring
- Bathymetry ...

GeoMax Geo Office (GGO)

The ideal companion for your GeoMax equipment.





EASY-TO-USE

Following Microsoft Windows standards, GGO is easy-to-use, even for novice PC users. Through the use of icons and graphics working with data in GGO is as easy as “point and click”.

RINEX IMPORT/EXPORT

Support of GNSS processing using multiple sensor brands is assured thanks the GGO’s RINEX Import/Export option. By using the industry standard RINEX format you can import third party receiver data and post-process in GGO.

PREPARE, VISUALIZE AND EDIT

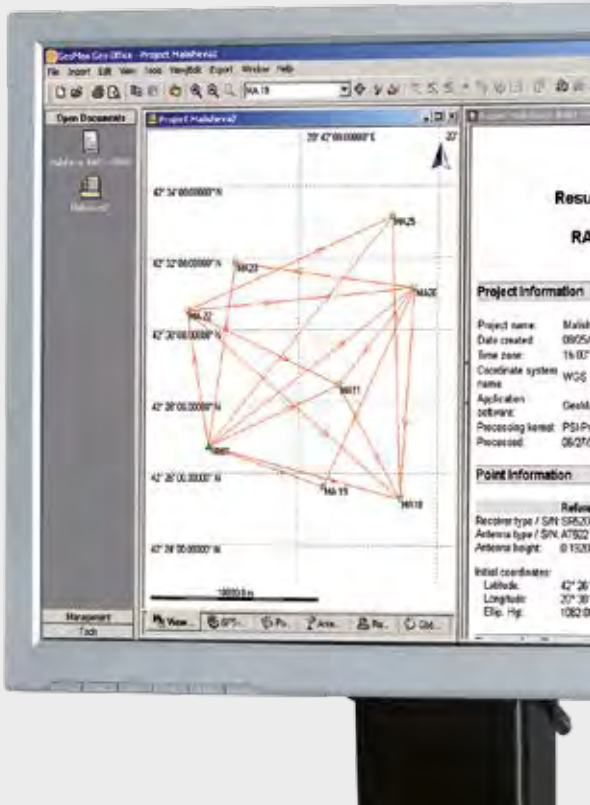
GGO has a full suite of tools that allow you to get the most out of your equipment before going on-site. Once you’ve completed your survey and seamlessly imported your field results into GGO, all observations are immediately available for visual confirmation of field activities. If errors or changes are found they can be easily edited to deliver perfect results.

DATA PROCESSING AND REPORTING

When post-processing of GNSS (GPS+GLONASS) data is required, GGO provides state-of-the-art technology to guarantee you always produce optimal results. Simply import data and GGO will automatically process all possible GNSS baselines. Once results are available they can be presented in customised reports.

LEAST SQUARES ADJUSTMENT

Available a rigorous 3D least squares adjustment package. This option allows the adjustment using least squares of GNSS, total station and combined data using a variety of different parameters and coordinate systems. The results are stored in well-designed HTML reports.



GEOMAX TH
AND LEVELS

GeoMax levelling sy
complete your daily
with the highest acc
comfort and robustn
indoor or outdoor, e
weather conditions.

HEODOLITE
S

stems make it easy to
levelling tasks on time
curacy. Rely on their
ness when working
even under challenging

GeoMax Zipp02

Digital theodolite for all your general construction tasks.

CLOSING THE GAP

With vertical compensation and 2" accuracy the Zipp02 provides you with the precision required for your most demanding jobs at an affordable price without adding complexity. Various display modes, hold and set zero for horizontal angle, a variation of measurement units, simple distance measurement via stadia lines all make for easy operation with only six keys. Visible laser plummet enables you to set up over a point faster and easier than ever. The Zipp02 is the tool of your choice when it comes to checking angles, alignments, grade work and short range levelling.

Technical data

Precision	2"
Magnification	30 x
Compensator system	Automatic vertical compensator User set on/off
Display	Double side large character back-lit LCD
Keys	6 one-touch button functions
Operation period w/o laser plummet	36 h

GeoMax ZDL700 Series

A digital level offering accurate results and fast operation.

QUICK, EASY AND ERROR-FREE

The 3-seconds measurement speed in combination with the simplicity of the one-push measure-and-store functionality provides faster and more economical workflows.

LEAVE THE CALCULATOR IN YOUR POCKET

Execute all kind of calculations, ZDL700 is equipped with an onboard adjustment program; a height difference calculation; an inverse staff measuring mode; and various measuring configuration.

Based on digital readings and automated calculation, you will never again be slowed down by time-consuming calculator usage.

ACCURATE

Extensive field tests verify the excellent accuracy of the ZDL700 of 0.7 mm for 1 km double-run level. This makes the ZDL700 an ideal level not only for high order levelling but also deformation measurements and precise surveying, as well as general construction.

Technical data

Height accuracy	± 0.7 mm/km
Distance accuracy	D < 10 m, 10 mm D ≥ 10 m, 0.001 x D
Maximum range	105 m
Single measurement speed	< 3 seconds
Internal memory	2,000 measurements

GeoMax ZAL Series

Automatic levels covering from beginner to expert.

Total Care
SHIELD

Intensify your performance and get error-free results at the best price-to-performance ratio.

The GeoMax ZAL Automatic Level series are dependable and durable tools. Available at all skill levels, GeoMax levels enable all construction professionals to work correctly and economically.

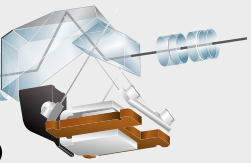
With different types of magnification, a new ergonomic and solid-built design, and full range of accessories and services, these automatic levels provide great quality at affordable value.

GeoMax ZAL300 Series

Professional / high precision

magneX™

Technical data	ZAL330	ZAL328
Accuracy Standard deviation 1km double-run levelling	1.2 mm	1.5 mm
Image	Erect	Erect
Magnification	30 x	28 x
shortest target distance from instrument axis	0.8 m	0.8 m
Multiplication factor	100	100
Compensator working range / setting accuracy	± 15′ / 0.3″	± 15′ / 0.3″
Circular level sensitivy	10' / 2 mm	10' / 2 mm
Protection	IP57	IP57



GeoMax ZAL200 Series

Professional / standard tasks

GeoMax ZAL100 Series

Economic choice/ occasional use

ZAL324	ZAL320	ZAL232	ZAL224	ZAL220	ZAL132	ZAL124	ZAL120
2.0 mm	2.5 mm	1.9 mm	2.0 mm	2.5 mm	2.0 mm	2.0 mm	2.5 mm
Erect	Erect	Erect	Erect	Erect	Erect	Erect	Erect
24 x	20 x	32 x	24 x	20 x	32 x	24 x	20 x
0.6 m	0.6 m	1 m	1 m	1 m	1 m	1 m	1 m
100	100	100	100	100	100	100	100
± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″	± 15′ / 0.5″
10' / 2 mm	10' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm
IP57	IP57	IP56	IP56	IP56	IP54	IP54	IP54

GEOMAX LASER ROTATORS

Suitable for a wide range of applications GeoMax laser rotators are true multi-purpose tools with an oustanding cost-effectiveness.

GEOMAX PIPE LASERS

Versatile and fully featured, the GeoMax pipe lasers will adapt the way you work.

GeoMax Zone Series

From start to finish, covering every need.

Construction sites can differ drastically, from modest jobs to compound designs. Construction professionals need tools with extensive range and capabilities to finish the job correctly and economically. The new and powerful GeoMax laser rotators portfolio offers the right construction tools for all trades and applications.

Solid-built and dependable in any element, the GeoMax lasers provide you long-lasting operation from multiple charging options, the flexibility of a full range of interchangeable accessories to accommodate your unique work preference, and all at the best price-to-performance ratio.

GeoMax Zone70 DG

High-end dual grade laser, unbeatable performance.

Built with a rock-solid core, this high-end rotation laser offers unbeatable performance and is key for long distance applications where high precision and dependability in all kinds of environmental conditions are needed.

Technical data

Functionality	Self-levelling horizontal digital slope in dual axis (full-automatic)
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 1.5 mm at 30 m (±1/16" at 100 ft)
Self-levelling range	± 6°
Grade range	Up to 25 %
Rotation speed	300, 600, 900, 1200 rpm
Scanning modes	-
Laser diode type / class	635 nm (visible) / class 1
Batteries type	4-8 D-cell alkaline / NiMH
Battery life	> 40 h
Operating temperature	-20°C to 50°C
Protection	IP68

GeoMax Zone60 DG

Fully-automatic dual grade laser.

Fully-automatic grade specifically designed for construction workers who need the dependability and accuracy of a fully professional grade laser on a daily basis. With a straightforward user interface on both the laser and the RF remote, the craftsman is always in full control.

Technical data

Functionality	Self-levelling horizontal, vertical, digital slope in dual axis (full-automatic)
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 1.5 mm at 30 m (±1/16" at 100 ft)
Self-levelling range	± 6°
Grade range	Up to 15 %
Rotation speed	300, 600 rpm
Scanning modes	-
Laser diode type / class	635 nm (visible) / class 1
Batteries type	4 D-cell alkaline / Li-Ion
Battery life	> 40 h
Operating temperature	-20°C to 50°C
Protection	IP67

GeoMax Zone60 HG

Semi-automatic grade in levelling applications.

Adding easy-to-use, dial-in grade capability to the dependability of the Zone40 H core, this laser is more flexible in use and enables semi-automatic grade in levelling applications.

Technical data

Functionality	Self-levelling horizontal digital slope in dual axis (semi-automatic)
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 1.5 mm at 30 m (±1/16" at 100 ft)
Self-levelling range	± 6°
Grade range	8 %
Rotation speed	600 rpm
Scanning modes	-
Laser diode type / class	635 nm (visible) / class 1
Batteries type	4 D-cell alkaline / Li-Ion
Battery life	> 40 h
Operating temperature	-20°C to 50°C
Protection	IP67

GeoMax Zone40 H

Best construction site laser rotator.

Are you looking for performance and absolute dependability? Zone40 H is the best construction site laser for rough environments. Combining solid-built housing with a powerful dependable core, this laser is a long-term companion of choice for any heavy duty levelling task.

Technical data

Functionality	Self-levelling horizontal manual slope in dual axis
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 1.5 mm at 30 m (±1/16" at 100 ft)
Self-levelling range	± 6°
Grade range	-
Rotation speed	600 rpm
Scanning modes	-
Laser diode type / class	635 nm (visible) / class 1
Batteries type	4 D-cell alkaline / Li-Ion
Battery life	> 40 h
Operating temperature	-10°C to 50°C
Protection	IP67

GeoMax Zone20 H

Fully automatic entry-level laser rotator.

Economic and firm entry-level laser rotator. With a solid-built housing and a straightforward interface, this laser offers all functions needed for regular and flexible use.

Technical data

Functionality	Self-levelling horizontal manual slope in dual axis
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 2.2 mm at 30 m (± 3/32" at 100 ft)
Self-levelling range	± 6°
Grade range	-
Rotation speed	600 rpm
Scanning modes	-
Laser diode type / class	635 nm (visible) / class 1
Batteries type	4 D-cell alkaline / Li-Ion
Battery life	> 40 h
Operating temperature	-10°C to 50°C
Protection	IP67

GeoMax Zone20 HV

Fully automatic multipurpose laser rotator.

This laser offers the Zone20 H basic specifications plus the capability of vertical levelling. Zone20 HV includes a long-range remote to adjust and align easily in any jobsite. The multipurpose laser for any craftsman.

Technical data

Functionality	Self-levelling horizontal, vertical, 90° manual slope in dual axis
Head protection	Fully enclosed
Operating range (diameter)	900 m / 3000 ft
Self-levelling accuracy	± 2.2 mm at 30 m (±3/32" at 100 ft)
Self-levelling range	± 6°
Grade range	-
Rotation speed	120, 300, 600 rpm
Scanning modes	10° - 35°
Laser diode type / class	635 nm (visible) / class 2
Batteries type	4 D-cell alkaline / Li-Ion
Battery life	> 40 h
Operating temperature	-10°C to 50°C
Protection	IP67

GeoMax ZEL400 H / HV

Fully automatic, ideal for interior finishing.

Ideal for interior finishing. Compact and solid housing. Fully-featured entry-level performance. NiMH rechargeable battery.

Technical data	ZEL400 H	ZEL400 HV
Functionality	Self-levelling horizontal manual slope in dual axis	Self-levelling horizontal, vertical, 90° manual slope in dual axis
Head protection	Open cage	
Operating range (diameter)	600 m / 2000 ft	
Self-levelling accuracy	± 2.5 mm at 30 m (± 3/32" at 100 ft)	
Self-levelling range	± 6°	
Grade range	-	-
Rotation speed	0 - 600 rpm	
Scanning modes	-	10° - 35°
Laser diode type / class	635 nm (visible) / class 3R	
Batteries type	2 D-cell alkaline / NiMH	
Battery life	> 60 h	
Operating temperature	-10°C to 50°C	
Protection	IP54	

GeoMax Zeta125 Series

Versatile configuration, a full range of features and a tough design.

BUILT TO LAST

The robust and rugged design of the Zeta series has a proven IP rating for water and dust – so no matter how quickly water and dirt appear, the pipe laser will keep on working. The Zeta series are also equipped with a durable cast-aluminum housing, that use die casts and extrusions for superior strength.

ERROR-FREE WORK

Pipelaying needs to be exact over long distances so with a guarantee of ± 10 arc sec. accuracy during levelling works and a grade setting control of up to 0.001%, Zeta pipe lasers let you work close to error-free. In addition to the accurate levelling core, Zeta125s model features active cross axis compensation for any possible setup mistake.

SELF-LEVELLING

Set the pipe grade from -10 % to +40%.

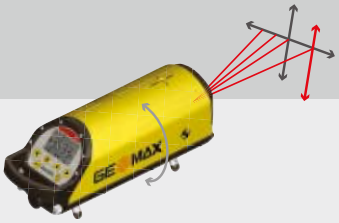
VERSATILE CONFIGURATION

The Zeta125 fits in tight bends and narrow manholes. Its slim build makes it suitable for pipes as small as 125 mm diameter and the Zeta feet ensure users continue working in most any site situation.

Technical data	ZETA125	ZETA125S
Self-levelling / grade range	+45% to -15% / +40% to -10%	
Accuracy	±5 mm at 100 m (± 1/16" at 100') ; ± 10 arc sec.; ± .005%	
Temperature drift	1"/C arc seconds per degree C	
Cross axis levelling	Manual	Automatic (6°)
Vertical level / Autotarget / Manual alignment	x	ü
Beam Type/Output	Visible laser diode; 635nm; < 5mW; 3R class	
Protection class	IP68	
Power supply / battery life	Rechargeable lithium ion battery pack; 110/230V AC converter (charge and run simultaneously); 12V power cord / 40h Li-Ion battery	

The smallest diameter

The Zeta125 fits in tight bends and narrow manholes. Its slim build makes it suitable for pipes with 125 mm (5") diameter and the Zeta feet ensure users continue working in most any site situation.



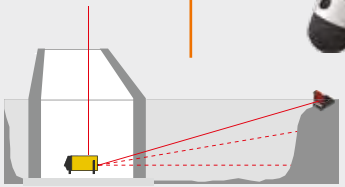
"S" SERIES MANUAL ALIGMENT AND AUTOMATIC DUAL AXIS COMPENSATION

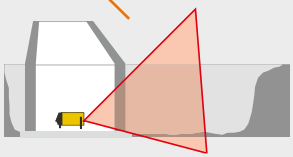
LARGE AND EASY-TO-READ DISPLAY

REMOTE CONTROL

PIVOT POINT AND 5/8" THREAD

ROBUST AND WATERPOOF





"S" SERIES AUTOTARGET SYSTEM AND VERTICAL LEVEL

-10 % TO +40 % INCLINATION ANGLE

GEOMAX MACHINE GUIDANCE

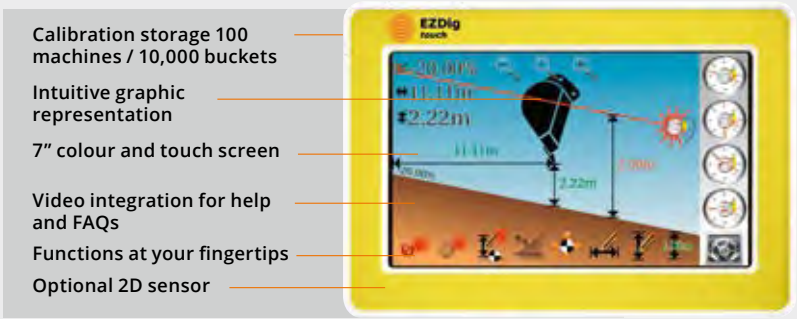
No more intuitive guesswork or costly and difficult-to-install-and-operate machine control systems. GeoMax has a new easy and accurate way to guide excavators.


EZDig
TILT

GeoMax EzDig Series

The new easy and accurate way to guide excavators.

The new GeoMax EzDig S and T excavator guidance system offers the easiest calibration and equipment operation available on the market – and at an affordable price. The EzDig excavator guidance systems "work when you do!"



BENEFITS

1. No more overcutting, costly fill materials and rework
2. Eliminate checking and installation machine downtime
3. No more time consuming tape measurements
4. Save fuel, time and material

TOUCH control unit

STANDARD control unit

5 machines / 150 buckets calibration storage

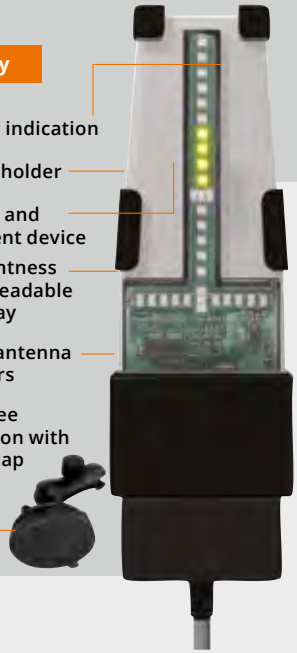
Rugged and compact design

One-function buttons for fast access to all functions

Easy-to-understand and functional icons

Technical data	EzDig STANDARD	EzDig TOUCH
System power	12/28 V	
Angle sensor		
Battery charger	Solar	
Dimension and weight	70x100x20 mm; 282g	
Protection	IP67 Water and dust	
Control unit		
Screen size and resolution	Digital 2.6" (10cm) 128x64 pixels	Touch 7" (18cm) 800x480 pixels
Optional 2D sensor	N/A	2D Gyro sensor
Memory		
Machines / Buckets number	5 / 10 per machine	over 100 / over 100
Accuracy	+/- 7/16" - 1cm	
Operating temperature	-20° to + 70° (-4° to 158° F)	

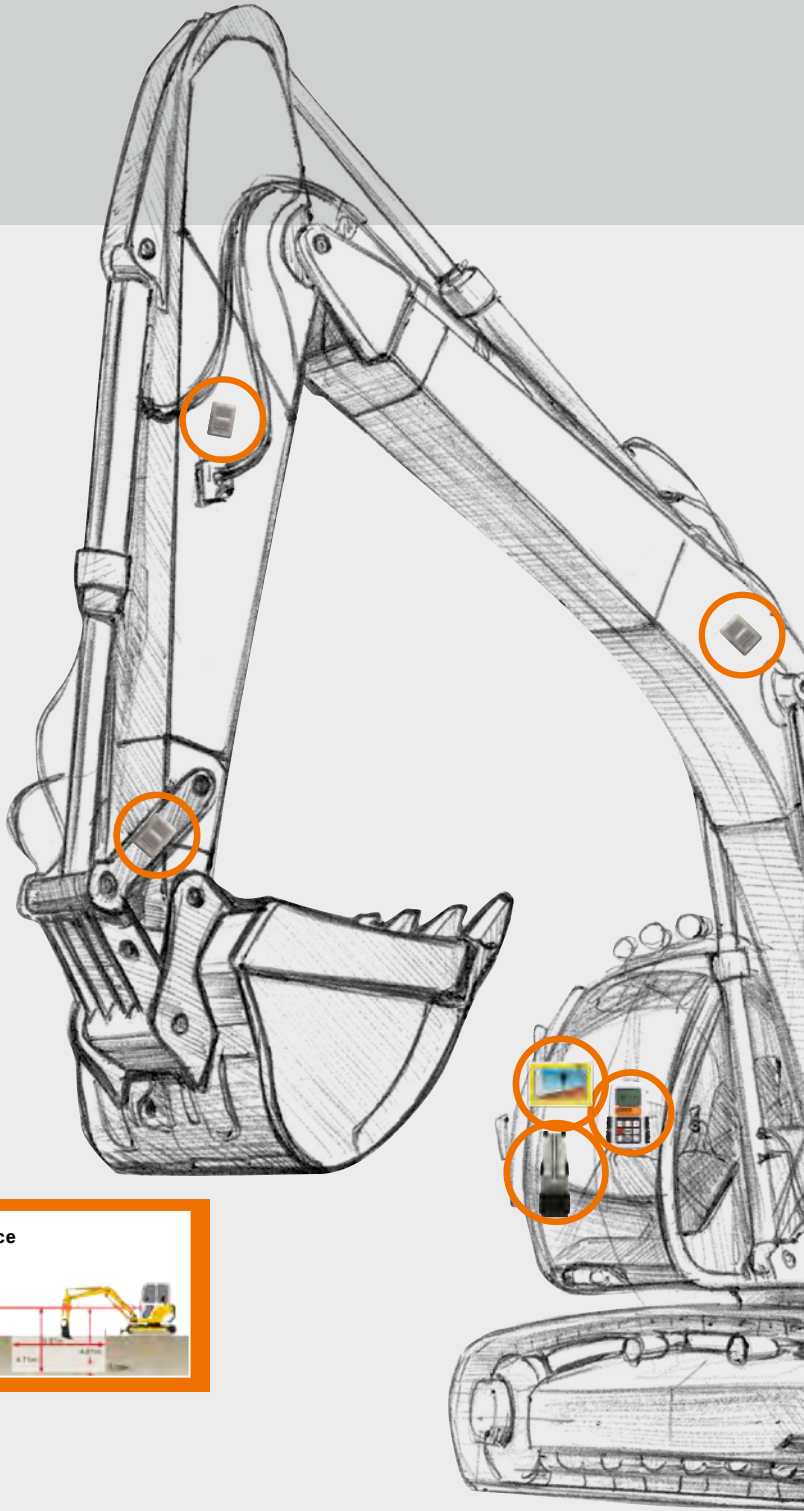
LED display



- Easy level indication
- Magnetic holder
- Heads-up and transparent device
- High brightness sunlight readable LED display
- Wireless antenna for sensors
- Screw-free installation with suction cap

Sensors

- Sensor plates mounting via 3M extra strong adhesive tape, no welding necessary
- Removal key
- Laser catcher for optional reference to laser rotator
- Self-calibrating high precision angle sensor
- Solar powered and charged sensors with low cost holders to apply on multiple machines
- Wireless communication to controller
- 2D Sensor for working 360° in field with single or double slope and no limits of straight line



REAL-TIME INDICATION

GeoMax MR240

Ideal for use with backhoes and mini-excavators.

Its LED indicators show the position of cutting edge in relation to laser reference beam. MR240 has 3 indicators in coarse mode, up to 5 in fine mode and is equipped with magnet mount with extra strong rare earth magnets.

- Accurate grade information for all visual machine control applications
- Extra strong rare earth magnets
- Rugged and waterproof design

Technical data

Range	200 m
Accuracy	Fine 6 mm Coarse 30 mm
Reception angle	240°
Reception height	14 cm
Power	3 x AA batteries, 1,5 V
Battery life	130 h
IP protection	IP67
Weight w/o battery	2.2 kg
Size	220 x 120 x 100 mm

GeoMax MR360R

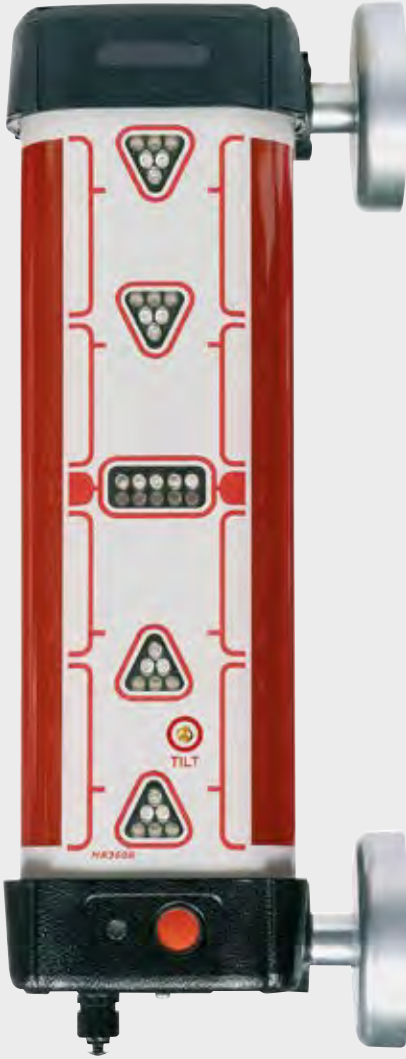
Accurate grade information for all visual machine control applications.

Large 360° detection windows pick up any rotating laser from any angle. MR360R incorporates a built-in vertical indicator that monitors angle of the stick, signalling if it is plumb or under/over extended. The remote display shows direction arrows for plumbing up the dipper stick.
Its receiver has plumb LED indicator and its magnet mount allows quick setup and easy movement from machine to machine.
Clamp mount also available.

- 360° detection windows for total coverage
- In-cabin remote display for best control
- on operations
- No cables required

Technical data

Range	200 m
Accuracy	Fine 6 mm Coarse 12 mm
Reception angle	360°
Reception height	25 cm
Power	NiMh rechargeable batteries
Battery life	130 h
IP protection	IP67
Weight w/o battery	1.8 kg
Size	375 x 75 x 107 mm



GEOMAX CABLE LOCATING AND TRACING

Increase on-site safety, minimise human error and save time and money.


GEOMAX
EZiCAT
i500
i550
i650
i750
i550XF
i750XF
Cable Avoidance Tool
ULTRA
EZiTEX

GeoMax EziSystem

Increase on-site safety, minimise human error and save time and money.

Every year site workers are injured and equipment damaged due to accidently striking buried cables and pipes. As the complexity of large underground networks continually increases, knowing the location of buried cables and pipes prior to excavation work has never been so important.

EziSystem i-Series

Easily avoid buried cables and pipes before excavation work

The EZiSYSTEM cable avoidance equipment makes locating buried cables and pipes easy and efficient. With an EZiCAT i-Series locator there is no need to manually adjust the sensitivity, with the unique Automatic Pinpointing feature users can simply press the trigger and start locating.

EziSystem xf-Series

Easily locate and trace buried utilities over greater distances

The EZiSYSTEM xf-Series utility locating and tracing equipment makes locating buried utilities easy and efficient. The xf-Series locators have additional low frequencies enabling you to locate and trace utilities over longer distances and in congested environments. With an EZiCAT locator there is no need to manually adjust the sensitivity, with the unique Automatic Pinpointing feature users can simply press the trigger and start locating.

LOGICAT Sotware

Upload stored records to view locators use

LOGiCAT Software enables you to easily extract and upload stored data from your EZiCAT data logging and GPS cable locators, then analyse and report on the following traceable data.

The benefits of data logging in 5 steps

1. Conduct ground survey gathering data
2. Send logged data to Bluetooth® enabled PC
3. View EZiCAT usage statistics and charts
4. Make informed decisions to efficiently manage EZiCAT fleet and operators
5. Implement changes to procedures for better results

GeoMax Ultra System

Easily locate cables and pipes with pinpoint accuracy.

ULTRA System locators

Multi-frequency precision locators for locating and tracing buried cables and pipes.

They offer advanced operating capability with over 70 operating modes. Enabling the operator to optimise the settings, controls and operating modes to maximise the locators performance in the most challenging and complex site conditions.

The locator has a clear graphical LCD screen, with auto-pinpointing directional arrows. The screen is large and clearly laid out. It is daylight visible and backlit ensuring confident and fast locating in all operating conditions day or night.

The ULTRA Advanced Locator sets itself apart by intelligently monitoring other frequencies that are interferring with the signal you're locating or tracing and recommends which frequency to use for the best results. Saving you time and giving you increased confidence in your results.

- Remote controlled transmitter
- Signal interference monitor
- Signal direction enabled
- 22 configurable frequencies
- Modes:
  - Power (default)
  - Radio
  - Transmitter
  - Sonde

The ULTRA System Transmitters

The transmitters are ideally suited for complex and challenging sites conditions. They are lightwieght and have 12 configurable frequencies that perform well tracing over long distances and also for high impedence cables.

The 12 Watt advanced transmitter is remote controlled, which enables the user to quickly and simply adjust the tracing frequency to adapt to the most challenging and complex site conditions.

- Remote controlled transmitter
- Signal direction enabled
- 12 configurable frequencies
- Modes:
  - Connection
  - Induction
  - Clamp

Technical data	ULTRA locators
Frequency / Mode	Power 50Hz, 100Hz and 450Hz; Radio 15kHz to 60kHz; Transmitter 512Hz, 314Hz, 8192Hz, 32768Hz, 83.1kHz and 200Hkz; Sonde Preset 512Hz, 640Hz, 8192Hz, 33768Hz and 83.1kHz (22 frequencies user configurable)
Antenna configuration	Single peak, twin peak, null, total signal or left/right (cable only)
Depth	Power to 3m; Radio to 2m; Transmitter to 4.6m; Sonde to 6m
Depth estimation	5% of depth in line or sonde (0.2m to 4.6m depth range) 10% of depth Sonde 4.6m to 6m
Protection	IP65
Bluetooth®	Enabled
Shutdown	Selectable auto shutdown after 5, 10, 20 or 30 minutes
Operating temperature range	-20° C to 50° C
Batteries	2 x D alkaline (IEC LR20) not supplied
Battery life	60 h intermittent use (at 20°C)
Weight & dimensions	2.18 kg - 700mm (H) x 325mm (D) x 122mm (W)

Technical data	ULTRA Transmitters
Frequency / Mode	512 Hz, 3140 Hz, 8192 Hz, 32768 Hz, 83.1 kHz, 200 kHz (12 frequencies user configurable)
Protection	IP65
Direct connection (Max)	12 Watt (model specific) when connected to a buried service with impedance of 100 Ohms
Batteries	10 x D alkaline (IEC LR20) not supplied
Battery life	Up to 100 h intermittent use (level 2 output at 20°C)
Shutdown	Selectable auto shutdown after 1, 2, 3, 4, 5, 6, 7 or 8 h
Operating temperature range	-20° C to 50° C
Weight & dimensions	3.5 kg - 255mm (H) x 190mm (D) x 305mm (W)

GeoMax Accessories

GeoMax accessories have been individually tested to provide you the best performance and reliability in all your dialy tasks. Of a quality that meets the highest demands, you can be assured that the complete range of GeoMax accessories “work when you do!”. This is a selection of our currect accessories portfolio, ask more options to your GeoMax representative.

ZTW100
Wooden tripod with shoulder strap and side clamp screws, 104 cm packaged length, extendible to 166 cm, weight 5.7 kg.

ZTA100
Aluminium light weight tripod with shoulder strap and side clamp screws, 105 cm packaged length, extendible to 167 cm, weight 4.5 kg.

ZST101
Tripod-star, for setting up of tripods on hard and slippery surfaces.

ZCA100
Tribrach carrier for GNSS antennas.

ZCA101
Tribrach carrier with stub for prisms.

ZPC105
Telescopic snap lock aluminium pole with 1/4” thread connector and screwable pin adapter. Snap lock at 1.5 and 2 m.

ZPC200
Telescopic carbon fibre and aluminium pole for GNSS. Extends to 230 cm.

ZPC201
Telescopic carbon fibre and aluminium pole for TPS. Extends to 230 cm.

ZPC210
GNSS pole, 40 cm, for mounting Zenith receiver on carrier as extension for base setups.

ZST100
Telescopic, dual-strut pole support. Suitable for all GeoMax poles and level staffs.

ZPT4
Mini TPS pole, four screwable segments to 30 cm with a pin.

TOTAL STATION, CONTROLLER & DIGITAL LEVEL CABLES

Zipp10 Pro/Zipp20	USB	Cable mini-USB to USB host connecting to a PC/tablet	ZDC301
Zoom20/30/35 Pro	RS232	Cable Hirose-RS232 connecting to a PC/tablet using serial transfer technology	ZDC100
	USB	Cable Lemo-USB connecting to a PC/tablet using USB transfer technology	ZDC217
ZTS600, ZDL700	RS232	Cable Hirose-RS232 connecting to a PC/tablet	ZDC100
	USB	Cable Lemo-USB connecting to a PC/tablet	ZDC102

GNSS CABLES

Zenith10/20	USB	Cable Lemo-USB connecting to a PC/tablet	ZDC222
	RS232	Cable Lemo-RS232 connecting to a PC/tablet	ZDC220
	Satel EASyPro/battery	Y-Cable Lemo to Lemo and clamps connecting with Satel EASyPro radio and external battery for power supply	ZDC221
Zenith25 Pro	RS232	Cable Lemo-RS232 connecting to a PC/tablet	ZDC227
	USB	Cable Lemo-USB connecting to a PC/tablet	ZDC226
	Satel EASyPro/battery	Y-Cable Lemo to Lemo and clamps connecting with Satel EASyPro radio and external battery for power supply	ZDC225
Zenith35	USB/RS232	Y-Cable Lemo to USB and RS232 for Zenith35	ZDC509
	Satel EASyPro/battery	Y-Cable Lemo to Lemo and clamps connecting with Satel EASyPro radio and external battery for power supply.	ZDC221

GeoMax Accessories

ZRP1
360° prism with soft bag.

GRZ122
360° prism with 5/8” for GNSS antenna.

ZSA504
Four-section telescopic staff. Provides dual measuring faces with bar code and millimetre graduations.

ZSF301
Dual face high accuracy fibreglass levelling staff, 3 m, 1 section, barcode/E-Scale cm-graduation, with circular bubble and handle.

ZSE504
Level staff 5 m, 4 sections, front side with E-graduation and back side with mm-graduation.

ZMP100
Mini prism 0-constant with tip, fits to ZPC105 pole.

ZPR100 and ZTP100
Circular prism with red holder, 0-offset. The ZTP100 target plate for precise aiming over long distances is separately available.

ZTR101 Standard tribrach without optical plummet.
ZTR103 Standard tribrach with optical plummet.
ZTR201 Advanced tribrach without optical plummet.

ZHR200
Pole holder for handheld PS336.

ZTM100
Self-adhesive reflective target 6 x 6 cm. For measurement of surfaces with standard EDM.

ZDE100/GFZ4
Diagonal eyepiece.

ZCA102
Reflector carrier with tubular level and optical plummet, for precise positioning.

BATTERIES
High output Li-Ion batteries.

ZBA301	for Zipp10 Pro/Zipp20/ZT20 Total Stations, 4.4 Ah
ZBA101	for ZTS600 Total Stations & ZDL700 Level
ZBA201	for Zoom Total Stations and Zenith25 GNSS, 2.6 Ah
ZBA400	for Zoom Total Stations, 4.4 Ah
ZBA202	for Zenith10/20 GNSS, 2.5 Ah
ZBA601	for Zenith35 GNSS, 3.4 Ah
CBA1	for PS336 Dataloggers, 5.6 Ah

ZCH201
Rapid charger or Li-Ion batteries ZBA201 and ZBA400. Includes car adapter cable.

ZCH601
Dual charger for ZBA601.

ZMC100
The 4 GB USB memory stick is suitable for GeoMax instruments, providing the highest data dependability.

GeoMax Accessories

LASER RECEIVERS

The new GeoMax Zone Series come with three brand-new laser receivers that will complement and boost your performance.

Technical data	ZRB35 Basic	ZRP105 Pro	ZRD105 Digital
Working diameter		900 m (3000 ft)	
Extended detection window	35 mm / 1.5 in	105 mm / 4 in	105 mm / 4 in
Numeric readout height	-	-	90 mm / 3.5 in
Detection accuracies			
Ultra fine	-	-	± 0.5 mm / ± 0.02 in
Super fine	± 1.0 mm / ± 0.04 in	± 1.0 mm / ± 0.04 in	± 1.0 mm / ± 0.04 in
Fine	-	± 2.0 mm / ± 0.08 in	± 2.0 mm / ± 0.08 in
Medium	± 3.0 mm / ± 0.12 in	± 3.0 mm / ± 0.12 in	± 3.0 mm / ± 0.12 in
Coarse	-	-	± 5.0 mm / ± 0.20 in

ZCB100
Backstrap for hard shell containers.

ZCT102
Hard shell container for 2 circular prisms, 2 carriers and 2 tribrachs.

MW12
Easy-to-use and light road measuring wheel with handle activated wheel brake.

SmartRod
Extend the 4 m telescopic SmartRod to easily capture the laser beam within the 165 mm beam detection window and receive height measurements on the digital display. No misreading and a new dimension of range.

GeoMax Quality Management

BUILT FOR ALL ENVIRONMENTS

With the design criteria “works when you do” GeoMax products are built to withstand all environmental conditions. GeoMax equipment is built with the intention to withstand all conditions you run into during your daily work. Rain, hail, snow or intense heat will never affect your GeoMax equipment - you can always keep working to get the job done.

OUR COMMITMENT TO SAFETY AND THE ENVIRONMENT

All GeoMax products are fully CE (Conformité Européenne) as well as RoHS (Restriction of the use of certain hazardous substances in electrical and electronic equipment) and WEEE (Waste from Electrical and Electronic Equipment) conformant.

OUR COMMITMENT TO QUALITY

The internationally active Swiss Association for Quality and Management Systems SQS, as well as the International Certification Network IQNET certified that GeoMax AG meets the requirements of ISO9001, Quality Management System and ISO14001, Environmental Management System.

- **Certified area:** Whole company.
- **Field of activity:** Development, manufacture, distribute, support and service of products, precision tools and systems for geomatic, industrial and construction applications.

Distance meter (Reflector mode): Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1
Laser plummet: Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1
Distance meter (Reflectorless mode accXess™): Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

GeoMax Selection of our portfolio:

Zoom90 Series

Zoom35 Pro Series

Zoom30 Pro Series

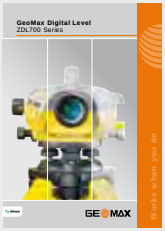
Zoom20 Pro Series

Zoom20 accXess

Zipp20 Open WinCE® Series

Zenith35 Series

Zenith25 Pro Series



ZDL700 Series

Zoom300

Zoom3D Series

Zone Series

Zeta125 Series

EzDig

Ezi & Ultra Systems

GEOMAX AUTHORIZED DISTRIBUTION PARTNER

Works when you do

Learn more at:
geomax-positioning.com