

# GeoMax General Catalogue

The entire GeoMax portfolio



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website**



**geomax-positioning.com**

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# This is GeoMax

Serving the world with a local approach

Works when you do



GeoMax, part of Hexagon, has gained the confidence of its partners and has built up a strong network of resellers worldwide. The confidence was won over by our knowledge of user needs in their everyday environment, the quality and performance of our products, an extensive service offering, tailor-made technical training and a proximity-oriented business approach.

Our success also comes from our visionary approach to software and data management. While most major players were offering solutions on Windows CE, GeoMax introduced the world's first Android™-enabled software: X-PAD. This software provides flexibility to everyone to digitise their work tasks. It is available in many versions for daily use in the field (X-PAD Ultimate) or in the office and technical workshops (X-PAD Office Fusion, CalMaster).

Hexagon (Nasdaq Stockholm: HEXA B) has approximately 20,000 employees in 50 countries and net sales of approximately 3.9bn EUR.

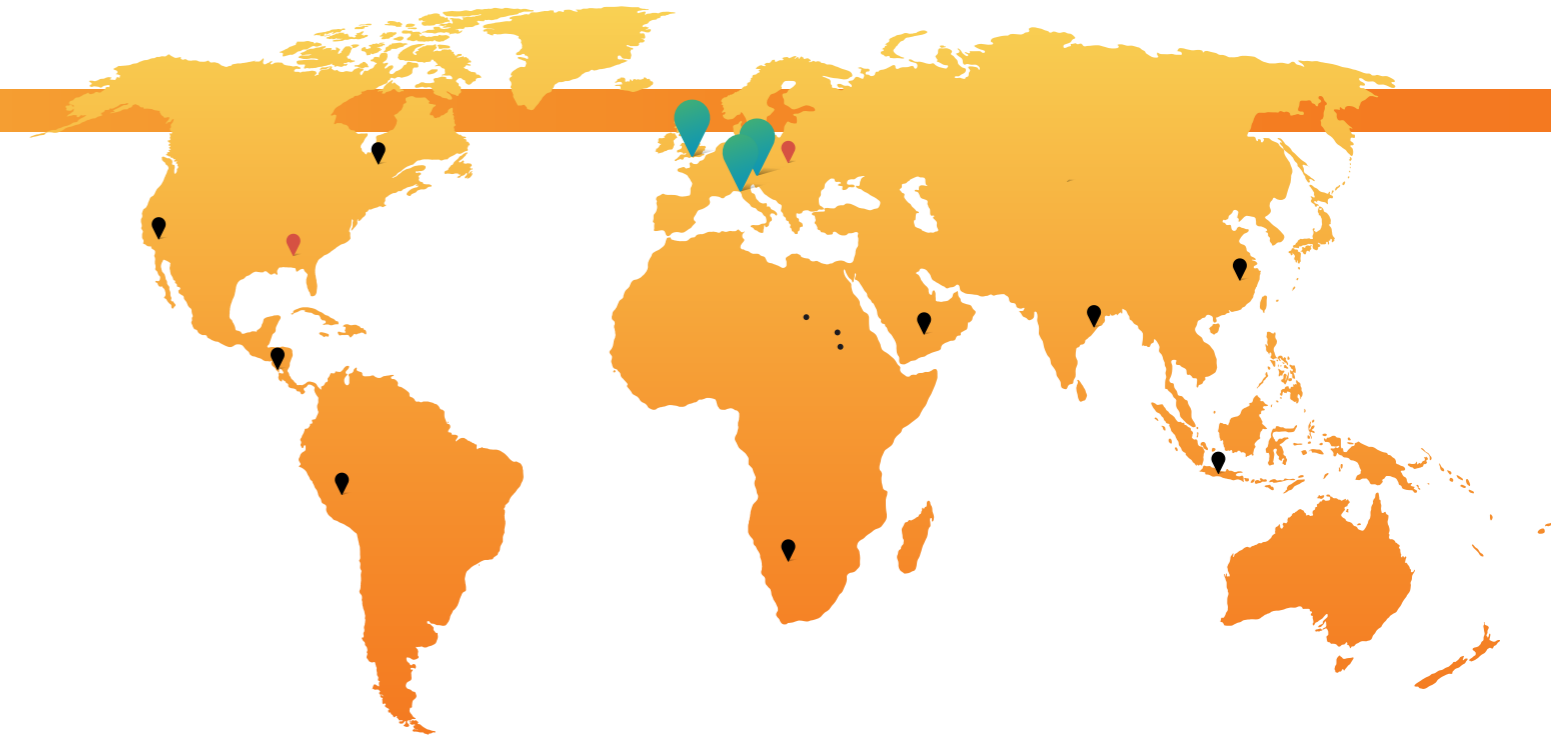
## We provide innovative measurement equipment

At GeoMax, we concentrate on providing you with the quality and functionality you need in your daily work. Removing the frills enables us to deliver products that "work when you do" – independent of weather, location and task.

GeoMax offers unmatched user-friendly solutions and extensive hands-on support for surveying and construction professionals across the globe.

## Mission

In this digital and standardised world, GeoMax puts data to work, by offering its customers tailor-made services and connected ecosystems, so they can flexibly use autonomous workflows while boosting efficiency and business growth. We collaborate, listen to our partners, understand the markets and answer to the local needs of our customers to make their daily work easier.



## 3 Strategic partners

## 2 Operational centres

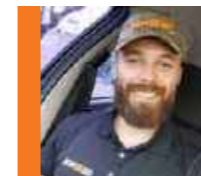
### 270 Dealers

Our 270 specialist dealers will work with you to provide the right surveying and construction solutions to best suit your needs, help you work efficiently and to support you with a dedicated service and training team.



**When we get a GeoMax product, we've got high confidence it's going to perform as advertised. It's going to hit the street and perform for years.**

- Lonnie Sears, President of eGPS Solutions



**The quality of the hardware, the ease of use of the software, the friendly support team and GeoMax local partner made me choose GeoMax.**

- Bruno Krenski, Expert Surveyor from Brazil at Measuring Masters



**GeoMax has advantages in operation as its equipment is very easy for the user to understand. This makes it very easy to speed up the time of project measurement.**

- Harris Aceh, Leader of the Vocational Training Institution



# Services & Support

Experienced, dedicated, multilingual



We'll be there when problems arise so your work can continue as planned with minimal downtime. And with product training sessions, online resources and more, we're also there to help advance your knowledge and skills so you can succeed as a GeoMax partner.

Our customers are located across the globe and so is our support. The experienced, dedicated, and multilingual teams at our worldwide maintenance and service centres provide fast response times and work with you until your problem is solved.

Additionally, our Total Care Shield Warranty covers repairs and maintenance, recalibration, cleaning and servicing, software updates and functional and safety testing. You can be confident both in the quality of your GeoMax product and the expert service you'll get to keep your products working properly.

GeoMax doesn't want anything to stand between our customers and training opportunities, which is why we've developed and will continue to release on-demand Expert Webinars published on our website and available to watch anytime, from anywhere.



Our vision of support is also direct and personalised. The GeoMax Academy offers global and local trainings with customised programs for our partners. We share our expertise and listen to feedback so we can continue developing products that meet customer needs and improve the competitive advantages of our instruments and solutions.

# Quality Management

Quality and performance are highest priority



At GeoMax, our highest priority is the quality and performance of our solutions to ensure your equipment works when you do at all times. Our products are designed and produced to withstand extreme environmental conditions – no failure or poor functioning in intense heat, snow, hail or rain.

Our commitment to quality is internationally recognised and certified with the same high Swiss quality standards as our parent company, Hexagon. GeoMax AG is ISO9001 Quality Management System and ISO14001 Environmental Management System certified by the Swiss Association for Quality and Management Systems SQS and the International Certification Network IQNET.

We also extend this quality commitment to safety and sustainability. GeoMax solutions are fully compliant with Conformité Européenne (CE), the Restriction of Hazardous Substance Directive (RoHS) and Waste from Electrical and Electronic Equipment (WEEE) regulations.





# GeoMax Favourites

Customer satisfaction drives us

## X-PAD Ultimate



*X-PAD Ultimate runs on Android, which feels like using a smartphone. Within a couple of training hours, one can learn how to use it.*

**Andrius Belsevičius**, Supervising Surveyor

## Zoom95



*Previously we used Total Stations in our work. Now, after purchasing the GeoMax Robotic Station Zoom95, we have taken a step towards the company progress and the improvement of data quality.*

**Atis Baumanis**, Supervising Engineer

## Zenith40



*Whether it is surveying, staking out or checking surfaces, the Zenith40 is doing a great job. I am using it with X-PAD Ultimate, the best field software for me. With its strong battery and processor, the Zenius800 is my favourite tablet.*

**Alic Vedad**, Construction Surveyor

## Zeta125



*The Zeta125 is small, user-friendly and if I were an entrepreneur, I would buy this pipe laser before any other!*

**Heinz-Günter Weigt**, owner of H.G. WEIGT VERMESSUNGSTECHNIK GmbH, Authorised GeoMax Dealer / construction expert with 40 years

## Zone 60DG



*My favourite feature of the Zone60 DG is the two-axis grade setting option. Not having to calculate the grades myself makes work a lot faster and more accurate.*

**Rolf Dürr**, Landscape gardener

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# GeoMax Software

GeoMax software solutions cover a wide range of professional surveying and construction applications. They are aligned with the workflows on sites to meet local needs and guide you through your tasks quickly and intuitively.

Works when you do





# X-PAD Ultimate

The Ultimate solution in the field

Scan to find out more on the  
**X-PAD Ultimate  
Product Page**



Our fully-featured X-PAD field software, X-PAD Ultimate, is the world's first Android field data collection software. It's available in two tailored versions: one for surveyors and one for construction professionals. The software is pleasantly simple to use, designed with the latest technology and always maintained without extra costs.

Optimised for field controllers and other mobile devices, X-PAD Ultimate includes a CAD function to prepare and adjust your data in the field. Additionally, you can load and display IFC files, hide and isolate elements and extract points, lines, surfaces and cross-sections for stakeout and checking operations. Equipped with the latest technology, like a 3D viewer, data integration in maps, a camera for augmented reality and voice command functions, you'll have the digital tools to make the most of your time in the field.

You can customise your software with a variety of modules that fit all types of projects and easily integrate your work into the X-PAD ecosystem of software solutions.

## X-PERT Service and Protection

We listen to our customers and continually work to improve our software, keeping the perfect balance between a clear interface, straightforward workflows and high functionality. Then we provide those improvements to you through our X-PERT service software updates. Additionally, with X-SHIELD, you receive maintenance during warranty, license transfer and additional support at no cost.



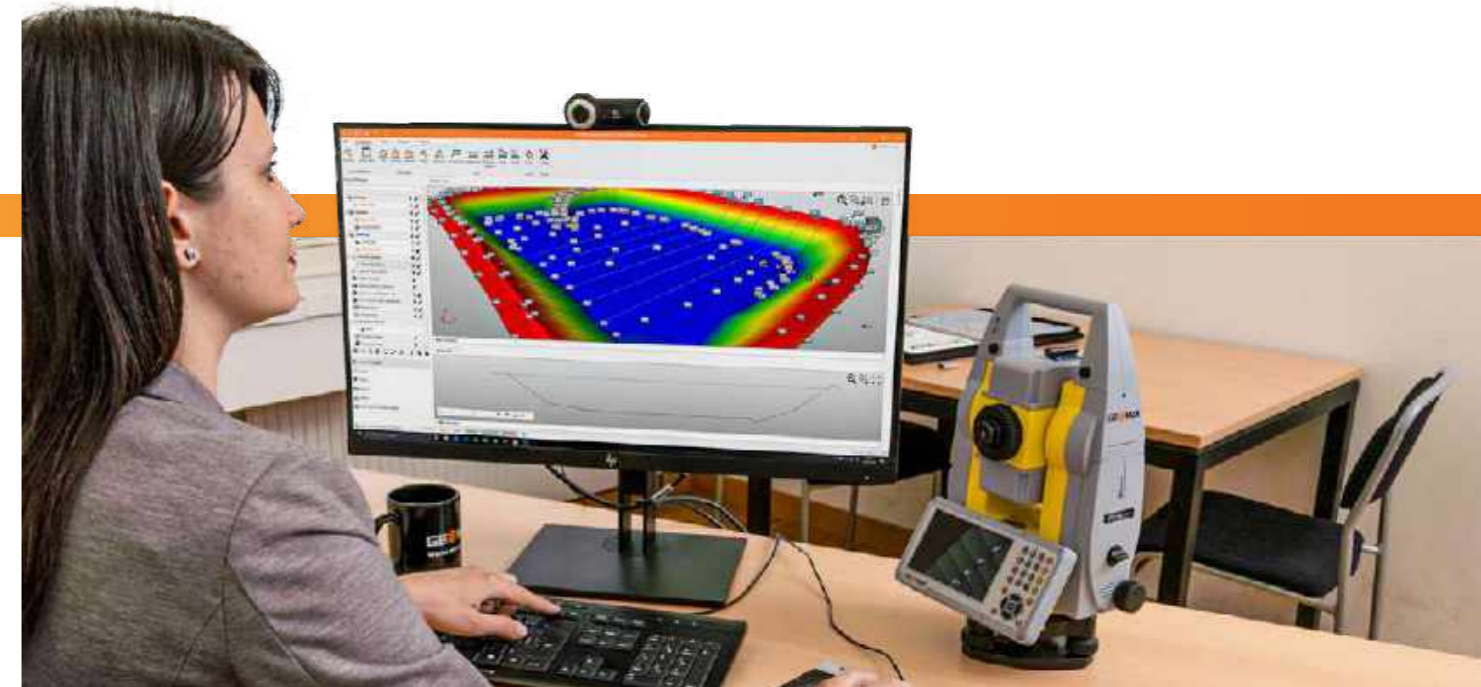
- Provides all software releases during the purchased period automatically
- Delivered with the initial X-PAD Ultimate order
- Free of charge for the first year and can be renewed and purchased after license expires



- Covers software maintenance (bug fixing)
- Always comes with all X-PAD Ultimate products free of charge

# X-PAD Office Fusion

The all-in-one office software



X-PAD Fusion includes tools and applications specifically designed for construction and surveying professionals. You can integrate data from TPS, GNSS, scanners, levels, drones and other sensors in a single environment. Unlike other software solutions in the market, X-PAD Fusion simply and intuitively manages measurements, coordinates, drawings, point clouds and other types of data in one platform without additional software needed. Modify your data graphically based on a 3D CAD system and easily exchange data with X-PAD Ultimate thanks to X-PAD 365 integration.

**NEW**



## NEW GNSS post-processing module

With the GNSS Post-Processing module, you can calculate GNSS static data. The simple workflow can be completed in three steps: import, set reference and rover observations, and run the calculation. The calculated data can be stored and used for all other topographic operations inside X-PAD Fusion. As an additional option, the Post-Processing Advance module allows processing GNSS baselines with a least square adjustment algorithm to ensure the highest accuracy results.

Scan to find out more on the  
**X-PAD Office Fusion  
Product Page**





# X-PAD 365

One platform, endless services

**NEW**



X-PAD 365, the web-based GeoMax cloud platform, was created to address data management and collaboration challenges surveyors and construction professionals meet every day.

It lets you access, store and share data anytime, anywhere to stay connected 365 days a year. Upgrade your teamwork with the Collaborative Survey and Stakeout feature that allows several users to work on the same surveying or stakeout project together, sharing real-time surveyed points and drawings in X-CHAT and immediately seeing their progress. And with automatic and manual backup for X-PAD Ultimate, you will never lose your data.

Scan to find out more on the  
**X-PAD 365**  
**Product Page**



# X-PAD 365 Packages

Tailored packages to perfectly meet your needs

	BASIC	PROFESSIONAL	ENTERPRISE
<b>ASSET MANAGER</b> Register equipment, software and services.	X	X	X
<b>NOTIFICATIONS</b> Get informed about news on registered assets.	X	X	X
<b>VIRTUAL TRAINING ACADEMY</b> Access to trainings material, webinars and support documentation.	X*	X	X
<b>FILE MANAGER</b> Store, manage & exchange files.		X**	X**
<b>BACKUP AND RESTORE</b> Manual and automatic backup for X-PAD Ultimate and X-PAD Ultimate GO.		X	X
<b>X-CHAT</b> Exchange data & information between office and field.		X	X
<b>COLLABORATIVE SURVEY</b> Work on the same survey in real-time.		X	X
<b>MULTIPLE USER MANAGEMENT</b> One administrator to create up to five sub-users using common storage area.			X

\* Basic: Product documentation and information

\*\* Professional: 10 GB space / Enterprise: 100 GB space



All licenses are annual licenses that will be automatically renewed. Besides the options listed above, your X-PAD 365 can be enhanced with additional functionality, (e.g. additional sub-users, more storage capacity).

# Collaborate on survey and stakeout

**PRO TIP**



Initiate a collaborative session through X-PAD 365 and save time by working together on a survey project. For example, capture and integrate data from multiple Zenith40 smart antennas into the ZeniusX field controller running X-PAD Ultimate software, allowing everyone to view measurement progress in real time. Once the data has been saved in 365, edit and add points to plans in the office with X-PAD Fusion. These new plans are immediately available to the site crew for stakeout. With these collaborative tools, crew members progress through sites quickly and efficiently, missed points or double measurements are eliminated and stakeouts become a seamless part of the process.

# X-PAD CalMaster

Efficient calibration for all your lasers



Scan to find out more on the **X-PAD CalMaster Product Page**



Laser calibrations are rarely quick and easy. X-PAD CalMaster users can significantly reduce calibration time by using the system. It enables a highly accurate method to calibrate construction lasers and can be operated without extensive training.

The system runs on X-PAD software that is well-known in the market for its user-friendliness and intuitive interface. Holding its promise, X-PAD CalMaster guides users step-by-step through the measuring workflow and supports them with instructions for accurate and fast measurements.



	GEOMAX ZONE SERIES	GEOMAX PIPE LASERS	3RD PARTY LASERS	3RD PARTY PIPE LASERS	3RD PARTY LINE/POINT LASERS
Issue calibration report	✓	✓	✓	✓	✓
Check plane laser beam	✓	✓	✓	✓	✓
Check spot beam	✓	✓	✓	✓	✓
Check grade 0.5%	✓	✓	✓	✓	✓
Check grade 1.0%	✓	✓	✓	✓	✓
Check grade 1.5%	✓	✓	✓	✓	✓
Guided calibration	✓	✓	✓	✓	✓
Live mode	✓	✓	✓	✓	✓



# Total Stations

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

Works when you do





# Zoom95 Series

The perfect one-person total station

**NEW**



If you are in charge of surveying for construction projects or purchasing devices for your company, this one-person total station is made for you. The prism can be quickly located, tracked and stays locked with the built-in STReAM360 technology.

Combined with our X-PAD field software, which is open to 3rd-party field controllers and available in Windows and Android, Zoom95 provides a full range of efficient choices. The X-PAD software suite has been developed based on our customer feedback. It perfectly matches Zoom95 workflows. It is so easy to use that no extra training is needed.

This solution is not only economical, with no maintenance cost, but your data is digitalised, secure and easy to access.

Scan to find out more on the  
**Zoom95 Series**  
**Product Page**



# Digitise your construction workflow

**PRO TIP**



**Make the move to digital on the construction site by combining GeoMax's hardware and software solutions.**

Upload digital building plans into X-PAD Ultimate running on a Zenius800 field controller tablet for a fully integrated experience on site. X-PAD Ultimate Build has intuitive interfaces tailored to building construction, making it faster and easier to locate points from plans with your Zoom95 robotic total station. This digital solution also eliminates doubt – edits to digital plans are updated everywhere, so you can be certain the plans you see on site are current.



# Zoom75 Series

The right solution to digitise your site

**NEW**



The Zoom75 and X-PAD solution was developed to meet the demands of both novice and experienced surveyors. You have the choice to use two people and the onboard software, or a single surveyor with a field controller of choice or a phone. Both guarantee fast and convenient work with CAD data. The instrument's big screen, optional long-range Bluetooth handle and high performing processor add to the easy, intuitive workflow of X-PAD software. Available for both Android and Windows, X-PAD provides a familiar user experience, reducing the need for training. User-friendliness and flexibility make it easy to start digitising your construction site.

Scan to find out more on the  
**Zoom75 Series**  
Product Page



# X-Pole

When TPS meets GNSS



The full integration of X-Pole with X-PAD field software lets you toggle between both measurement modes. Decide with the press of one button if you want to change from TPS to GNSS mode. For example, easily switch to GNSS mode when some points cannot be measured with TPS due to limited prism visibility. Once those points are measured, change back to TPS mode. This enhances the efficiency of the system by eliminating the need for cumbersome and time-consuming station setups.

Scan to find out more on the  
**X-Pole**  
Product Page





# Measure flexibly and efficiently

**PRO TIP**



## Switch between TPS and GNSS measurement modes with the fully integrated X-Pole and X-PAD Ultimate field software.

When structures like piles interfere with the line of sight from your Zoom75 robotic total station to your prism, easily switch to GNSS mode with the push of a button in the field software's X-Pole module and complete the measurements with a Zenith60 smart antenna. Move flexibly and freely around the site, logging and viewing all data on your Zenius800 field controller. Once those points are measured, easily change back to TPS mode. This eliminates difficult and time-consuming station setups, enhancing your overall efficiency.

# Zoom50 Series

When simplicity meets performance



With proven accXess EDM technology, the Zoom50 features an intelligent distance measurement engine designed for outstanding range, speed, and accuracy even under tough conditions. With the Polar option, the TPS can operate at a temperature as low as -30 °C.

All this, in combination with the full VGA colour touch screen, built-in Bluetooth®, USB port, and full-featured application package, make the Zoom50 the most powerful device in the GeoMax manual total station family.

Scan to find out more on the  
**Zoom50 Series**  
Product Page





# Zoom40 Series

Stay flexible, stay accurate



When flexibility counts, the GeoMax Zoom40 Series is your choice. Choose the onboard software you prefer. With the intuitive X-PAD field version for Windows OS, you get the most out of your TPS. Benefit from further flexibility with the high-resolution, graphical, colour touch screen, allowing you to work in the way that best fits your needs.

Combined with the ability to measure long distances with high accuracy, you can be sure the Zoom40 "works when you do".

Scan to find out more on the  
**Zoom40 Series**  
Product Page



# Zoom25 Series

When simple and reliable is what you want



Fast, simple and flexible data transfer is delivered by the built-in RS232, USB and Bluetooth®. With a reflectorless range of 500 metres, you are guaranteed high precision and reliability.

This manual TPS offers an intuitive user interface, graphical user guidance and an extended application package. Combined with an extra-long battery life, the Zoom25 makes it easier to deliver reliable data productively.

Scan to find out more on the  
**Zoom25 Series**  
Product Page





# Zoom10

More convenience and smoother workflow



To make your job easier, intuitive onboard software runs on two built-in displays. It ensures quick and accurate reflectorless measurement up to a range of 350 m and angular accuracy of 2". In combination with X-PAD software, the Zoom10 seamlessly integrates with your workflow to combine and process data from every sensor into one platform.

Combined with the X-PAD Ultimate GO field software, you get a user friendly and cost-effective package that operates in the most challenging work environments for the best performance-to-value ratio.



Please note that this package is only available in some countries.



Scan to find out more on the **Zoom10** Product Page

# Zipp02

Digital theodolite for all your general construction tasks



Scan to find out more on the **Zipp02** Product Page



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, and 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 choice when it comes to checking angles, alignments, grade work and short-range levelling.

## TECHNICAL DATA

Precision	2"
Magnification	30x
Compensator system	Automatic vertical compensator
Display	User set on/off
Keypad	Double side large character backlit LCD
Keys	Numeric with 3 programmable function
Operation period w/o laser plummet	6 one-touch button functions
Live mode	36 h



# GeoMax TPS

## Comparison Chart

Works when you do

	Zoom10	Zoom25	Zoom40	Zoom50	Zoom75	Zoom95
<b>ANGLE MEASUREMENTS</b>						
Accuracy	2"	1", 2", 5"	2", 5"	1", 2", 5"	1", 2", 3", 5"	1", 2", 3", 5"
Display resolution	1", 5", 10"	1"	1"	1"	0.1"	0.1"
Method	Absolute encoding	Absolute, continuous, diametrical	Absolute, continuous, diametrical	Absolute, continuous, diametrical	Absolute, continuous, diametrical	Absolute, continuous, diametrical
Compensation	Dual axis	Quadruple axis	Quadruple axis	Quadruple axis	Quadruple axis	Quadruple axis
<b>TELESCOPE</b>						
Type	-	neXus	neXus	accXXess	accXXess	accXXess
Magnification	30x	30x	30x	30x	30x	30x
NavLight™ Range	-	-	-	-	5 m - 150 m	5 m - 150 m
NavLight™ Accuracy	-	-	-	-	5 cm at 100 m	5 cm at 100 m
<b>DISTANCE MEASUREMENTS - PRISM</b>						
Range	3000 m	3500 m (std. prism)	3500 m (std. prism)	3500 m (std. prism) / 10,000 m*	3500 m (std. prism) / 10,000 m*	3500 m (std. prism) / 10,000 m*
Accuracy	3 mm + 2 ppm	2 mm + 2 ppm	2 mm + 2 ppm	2 mm + 2 ppm	1 mm + 1.5 ppm	1 mm + 1.5 ppm
Typ. time (fast/standard)	1 / 1.5 sec	2 / 2.4 sec	2 / 2.4 sec	1 / 2.4 sec	0.8 / 2.4 sec	0.8 / 2.4 sec
<b>DISTANCE MEASUREMENTS - NON-PRISM**</b>						
Range	350 m	500 m	500 m	500 m / 1000 m	500 m / 1000 m	500 m / 1000 m
Accuracy	3 mm + 2 ppm	2 mm + 2 ppm	2 mm + 2 ppm	2 mm + 2 ppm (< 500 m), 4 mm + 2 ppm (> 500 m)	2 mm + 2 ppm (< 500 m), 4 mm + 2 ppm (> 500 m)	2 mm + 2 ppm (< 500 m), 4 mm + 2 ppm (> 500 m)
Footprint	8 x 20 mm @ 50 m	8 x 20 mm @ 50 m	12 x 24 mm @ 50 m	8x 20 mm @ 50 m	8x 20 mm @ 50 m	8x 20 mm @ 50 m
<b>INTERFACE</b>						
Keyboard	Two full alphanumeric	Two full alphanumeric***	Two full alphanumeric***	Two full alphanumeric***	Two full alphanumeric***	Two full alphanumeric***
Display	B&W, high res., 160 x 96 pixels with backlight, 6 lines	B&W, high res., 280 x 160 pixel, backlit, 8 lines, heatable	Colour & Touch, 3.5" Q-VGA 320 x 240 pixel with LED backlight, 10 lines	Colour & Touch, 3.5" Q-VGA 320 x 240 pixel with LED backlight, 10 lines	Colour & Touch, 5" WVGA 800 x 480 pixel with LED backlight	Colour & Touch, 5" WVGA 800 x 480 pixel with LED backlight
Date recording	Internal memory, 20,000 points	Internal memory, 50,000 points	Internal memory, 2 GB	Internal memory, 50,000 points	Internal memory, 2 GB	Internal memory, 2 GB
Bluetooth	yes	yes	yes	yes	internal & long-range Bluetooth handle	internal & long-range Bluetooth handle
Removable memory	SD card	USB stick	USB stick	USB stick	SD card / USB stick	SD card / USB stick
Ports	Serial, USB mini	Serial, USB and external power	USB, USB mini	Serial, USB and external power	Serial, USB, USB mini, external power, WLAN	Serial, USB, USB mini, external power, WLAN
<b>SOFTWARE</b>						
Operating System	Embedded CE	Embedded CE	Open Windows CE	Embedded CE	Open Windows CE	Open Windows CE
Open for 3rd party SW	Open to X-PAD Ultimate GO	-	yes	-	yes	yes
Basic package	-	yes	Fully flexible*****	yes	Fully flexible*****	Fully flexible*****
Advanced package	-	COGO, Ref. Arc, PIN/PUK	Fully flexible*****	COGO, Ref. Arc, Road 3D, Traverse, PIN/PUK	Fully flexible*****	Fully flexible*****
<b>PHYSICAL SPECIFICATIONS</b>						
Weight	Approx. 5.5 kg with battery & tribrach	4.2 - 4.5 kg w/o battery and tribrach	5.3 kg w/o battery & tribrach	4.2 - 4.5 kg w/o battery and tribrach	5.0 - 5.3 kg w/o battery and tribrach	5.0 - 5.3 kg w/o battery and tribrach
Operating temperature	-20 °C to 50 °C	-20 °C to 50 °C (optional Polar Version -30 °C to 50 °C)	-20 °C to 50 °C	-20 °C to 50 °C (optional Polar Version -30 °C to 50 °C)	-20 °C to 50 °C	-20 °C to 50 °C
Protection class	IP54	IP55	IP54	IP55	IP55	IP55
<b>POWER SUPPLY</b>						
Type/Operating time****	removable, 10 hours	removable, 16 hours	removable, 10 hours	removable, 16 hours	removable, up to 8 hours	removable, up to 8 hours
<b>PLUMMET</b>						
Type	Laser point, adjustable brightness	Laser point, adjustable brightness	Laser point, adjustable brightness	Laser point, adjustable brightness	Laser point, adjustable brightness	Laser point, adjustable brightness
<b>MOTORISATION</b>						
Scout -360° Prism Search: Range	-	-	-	-	-	300 m at round prism
AiM - Prism fine aiming: Range / Accuracy	-	-	-	-	1000 m at round prism / 1"	1000 m at round prism / 1"
<b>TRack -Prism following</b>						
Range	-	-	-	-	800 m at round prism	800 m at round prism
Max. speed	-	-	-	-	90 km/h at 100 m	90 km/h at 100 m

\* Long mode  
 \*\* Optimal conditions to Kodak Grey Card (90% reflectivity)  
 \*\*\* Optional  
 \*\*\*\* Single measurement every 30 seconds, at 25 °C. Battery time maybe shorter, depending on conditions  
 \*\*\*\*\* X-PAD, FieldGenius, Carlson SurvCE



# GNSS Receivers

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 to increase your productivity and take your performance to the next level.

Works when you do





# Zenith60 Series

Newest technology for highest productivity

**NEW**



Thanks to the built-in IMU technology you can accurately measure inaccessible points with the antenna tilted, speeding up your work. You no longer need to spend time levelling the pole. The Zenith60 is calibration-free.

The instrument's resistance to electromagnetic fields gives you confidence that you can rely on your data.

With countries no longer supporting 2G and 3G, the 4G LTE module onboard the Zenith60 gives you the certainty of receiving your RTK data now and into the future. The built-in SATEL TR4+ is an exceptional UHF radio, supporting the most established protocols on the market. With the measurement engine from our trusted partner NovAtel and other Hexagon technologies, Zenith60 is an antenna you can trust to do the job right.

You have the flexibility to customise the Zenith60 to your needs, as it is available in four different versions. Decide for yourself if you need an antenna with or without tilt capability and / or UHF module.

Scan to find out more on the  
**Zenith60 Series**  
Product Page



# Zenith40 Series

Reliably accurate, every time



Take advantage of NovAtel's latest fully-featured OEM719 measurement engine. Receive multi-frequency signals from all existing satellite systems worldwide. Struggles with canopy - like working under trees, or inaccurate results because of multipath signals - are significantly improved due to the enhanced GeoMax Q-Lock Pro RTK which also reduces the time-to-fix.

The GeoMax Q-Lock Pro algorithm automatically detects available correction services and selects the one providing the highest accuracy.

Scan to find out more on the  
**Zenith40 Series**  
Product Page





# Zenith16 Series

Gets the job done at an affordable price



In combination with GeoMax field controllers and X-PAD software, this receiver unlocks its full potential.

Experience increased productivity and reduced failure rates thanks to the power of Hexagon's cutting-edge technology and the partnership with high-quality brands like SATEL and NovAtel.

GeoMax aims to empower customers with a choice of which features they really need to get the job done. This is why the Zenith16 receiver is available in two different versions, with and without a SATEL radio onboard.

Scan to find out more on the  
**Zenith16 Series**  
Product Page



# Calculate volume and make plans for on-site materials

**PRO TIP**



**Integrate the Zenith16 antenna with X-PAD software for topographic surveys when you need to calculate the volume of on-site materials, like dirt piles, and plan for their relocation.**

The Zenith16 provides measurement data for accurate calculations and clear visualisations with X-PAD Ultimate software running on the Zenius800 field controller. Import into X-PAD Fusion to create detailed 3D drawings, keep up-to-date records and effectively plan material handling and relocations.



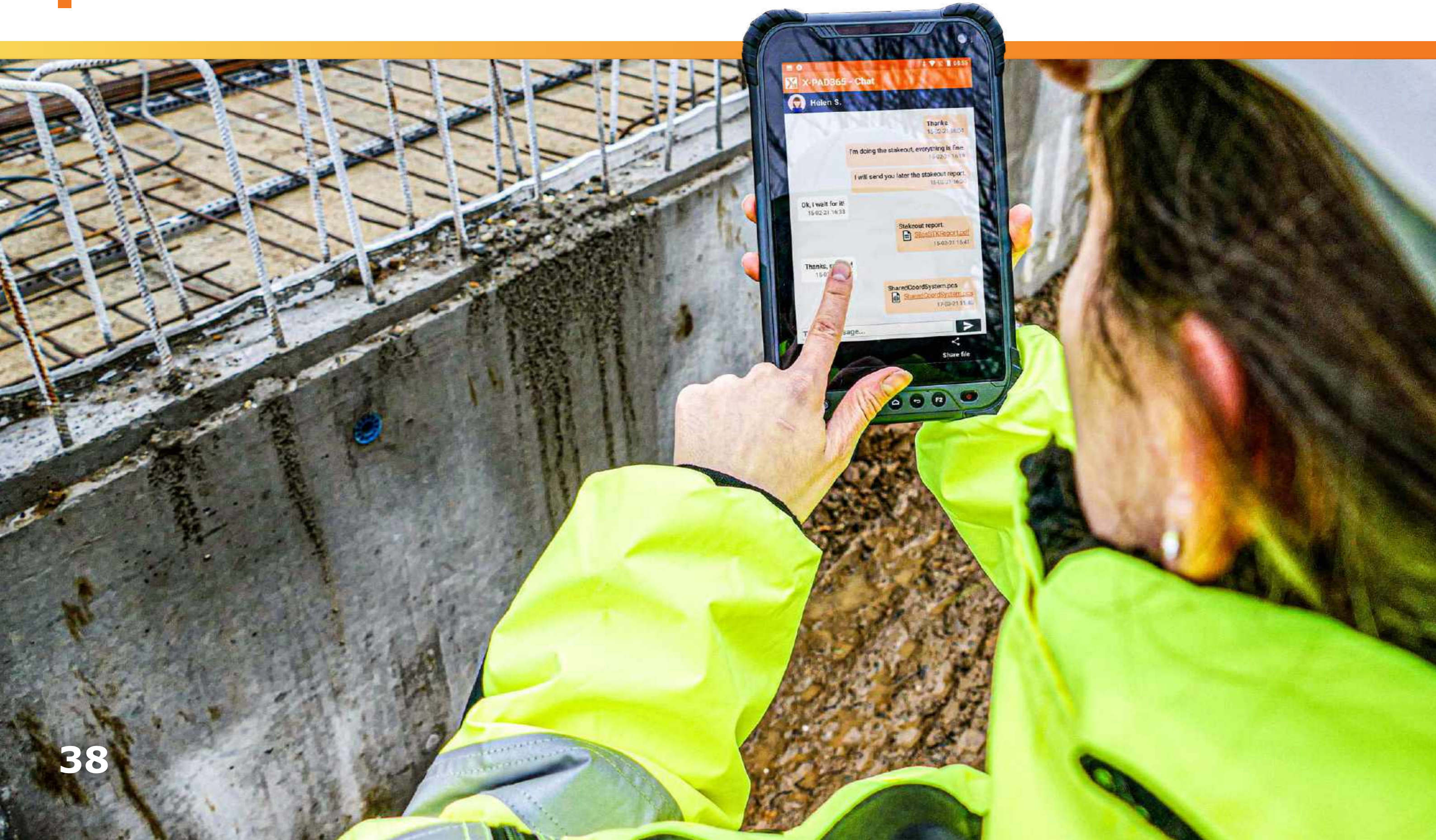




# Field Controllers

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

Works when you do





# ZeniusX A

The X-PAD Ultimate user experience



Operating on Android™, the ZeniusX field controller is versatile and fully equipped to make data collection easy. Clean and detailed site documentation is guaranteed thanks to the 8 MP high resolution camera.

The rugged device is dust-tight and withstands temporary immersion under water (IP67). Customisable keys for quick access and a large, crystal clear display make your job more convenient.

The dedicated GeoMax field software, X-PAD Ultimate, and the ZeniusX are the perfect match when it comes to your everyday job in the field.

Scan to find out more on the  
**ZeniusX A**  
Product Page



# Zenius800

For your success on the modern job site



GNSS or TPS, stakeout or topographical survey - the Zenius800 is the optimal datalogger for every task in the field.

Working with CAD drawings or 3D models is simple and intuitive, thanks to the big screen that provides an overview of the complete picture. Make changes directly in the field so there is no need to go back to the office. Uploading time for large data files is minimized thanks to the high-performance octaprocessor.

This tablet does not need to hide outdoors. The multi-touch and sunlight-viewable screen allows for interaction 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.

Scan to find out more on the  
**Zenius800**  
Product Page





# Micro Robotic Solution

The GeoMax Zoom3D and X-PAD MasterPlan software are your perfect partner for measurement and layout applications, indoors and outdoors.

Works when you do





# Zoom3D

Micro Robotic Solution with MasterPlan

Works when you do



With an easy set up and one man operation, the Zoom3D will speed up your daily work indoors and outdoors, and bring your plan into the field. Using the intuitive GeoMax X-PAD MasterPlan Android software, you can be ready to measure in just a few quick steps. Whether in dark or light conditions, focusing on hidden points, or covering short or long distances up to 50 m, the Zoom3D offers many intelligent features to precisely locate your targets.



X-PAD MasterPlan features a full range of drawing tools. These features allow you to draw the 3D environment quickly and easily by using the Zoom3D's drawing function. The results can be exported in DXF or ASCII format. Draw 2D and 3D elements with the best results using the X-PAD MasterPlan. Get fast and exact results with the best price-to-performance ratio.

When geometry becomes complex and surfaces are curved, Zoom3D measures horizontal, vertical and sloped sections automatically.

## 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
Vertical/Horizontal field of view	Angle and distance combination @ 10 m / 1 mm; @ 30 m / 2 mm; @ 50 m / 4 mm
Tilt sensor self-levelling range	±3°

Scan to find out more on the  
**Zoom3D**  
Product Page

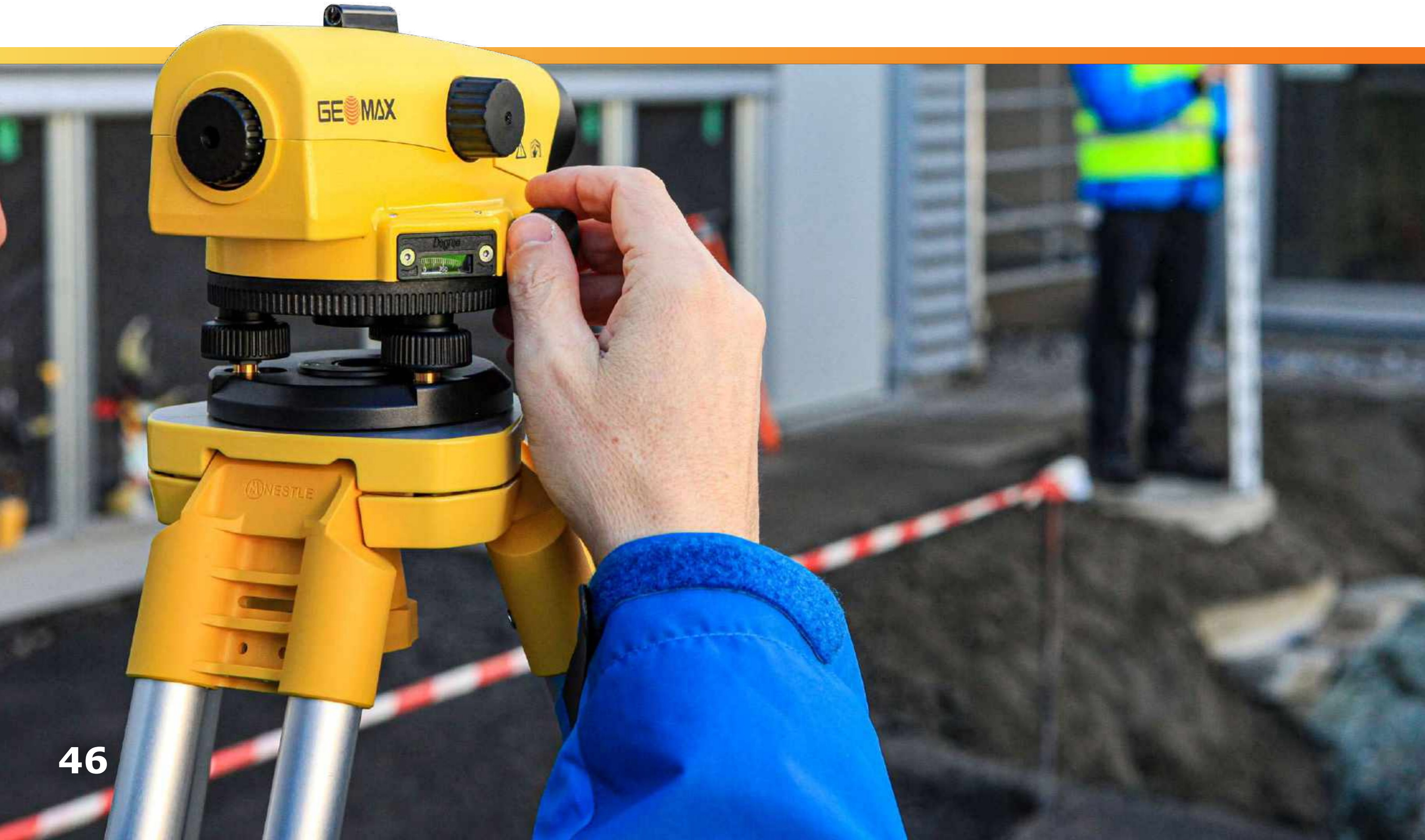




# Levels

GeoMax levels make it easy to complete your levelling tasks on time with the highest accuracy. Reliable and robust, even under challenging weather conditions.

Works when you do





# ZAL Series

Automatic levels covering all your needs



GeoMax ZAL Automatic levels are dependable and durable tools, complemented by a full range of accessories providing great quality at an affordable value.



## ZAL300 Series

Professional/high precision  
Scan to find out more



## ZAL200 Series

Professional/standard tasks  
Scan to find out more



## ZAL100 Series

Economic choice/occasional use  
Scan to find out more



TECHNICAL DATA	ZAL330	ZAL324	ZAL232	ZAL220	ZAL132	ZAL124
Accuracy Standard deviation 1km double-run	1.2 mm	2.0 mm	1.9 mm	2.5 mm	2.0 mm	2.0 mm
Image	Erect	Erect	Erect	Erect	Erect	Erect
Magnification	30 x	24 x	32 x	20 x	32 x	24 x
Shortest target distance from instrument axis	0.8 m	0.6 m	1 m	1 m	1 m	1 m
Multiplication factor	100	100	100	100	100	100
Compensator working range/setting accuracy	± 15' / 0.3"	± 15' / 0.5"	± 15' / 0.5"	± 15' / 0.5"	± 15' / 0.5"	± 15' / 0.5"
Circular level sensitivity	10' / 2 mm	10' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm	8' / 2 mm
Protection	IP57	IP57	IP56	IP56	IP54	IP54



# Laser Rotators & Receivers

Works when you do

Suitable for a wide range of applications, GeoMax laser rotators are true multi-purpose tools. They enable you to build simple and confident.





# Zone Series

From start to finish, covering every need

Works when you do



	ZRB90 BASIC	ZRP105 PRO	ZRD105 DIGITAL	ZRD105B
Working diameter	600 m / 2000 ft	900 m / 3000 ft	900 m / 3000 ft	900 m / 3000 ft
Detection window	80 mm / 3.1 in	70 mm / 3 in	105 mm / 4 in	105 mm / 4 in
Numeric readout height	-	-	90 mm / 3.5 in	90 mm / 3.5 in
Beam catching	-	-	-	✓
Beam lock	-	-	-	✓



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

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

- Error-free results
- Long-lasting operations
- Dependable in any element
- 3/5 Year warranty
- Outstanding price-to-performance ratio
- IP68/67 rating
- Interchangeable accessories
- Solid-built design

## Zone60 DG

Fully-automatic dual grade laser

**5 YEARS**  
Premium Warranty



Fully-automatic dual grade laser specifically designed for construction workers who need the dependability and accuracy of a professional grade laser rotator on a daily basis. Align and monitor the laser plane automatically by using the GeoMax ZRD105B receiver.

Scan to find out more on the  
**Zone60 DG**  
Product Page





# Zone60 HG

Semi-automatic grade laser



Zone60 HG is made for exterior applications and is an ideal partner for concrete as well as formwork. With the slope function, time and temperature changes are frequently monitored to ensure accurate performance.

# Zone20 HV

Automatic multipurpose laser rotator



The Zone20 HV has the same specifications as the Zone20H, plus the capability of vertical levelling. Pair up the Zone20 HV with a longer-range remote to match the jobsite.

# Zone20 H

Automatic entry-level laser rotator



The Zone20 H, an economic and solid entry-level laser rotator, is designed with rugged housing and a straightforward interface. This laser offers all functions needed for regular and flexible use.

Scan to find out more on the  
**Zone60 HG**  
Product Page



Scan to find out more on the  
**Zone20 HV**  
Product Page



Scan to find out more on the  
**Zone20 H**  
Product Page





# MR240

Ideal for use with backhoes and mini-excavators

# MR360R

Accurate grade information for all visual machine control applications



The GeoMax MR240's LED indicators show the position of cutting edge in relation to laser reference beam. The MR240 has three indicators in coarse mode, up to five in fine mode and is equipped with a magnet mount with extra strong rare earth magnets.

## Benefits

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

Scan to find out more on the **MR240** Product Page



The GeoMax MR360R's large 360° detection windows pick up any rotating laser from any angle. The 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.

## Benefits

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

Scan to find out more on the **MR360R** Product Page





# Pipe Lasers

Consistent precision and durability have come to be expected with the compact, robust and fully featured GeoMax pipe lasers.

Works when you do





# Zeta125 Series

Designed for tough conditions

Works when you do

**NEW**

Scan to find out more on the  
**Zeta125 Series**  
Product Page



## 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 is also equipped with a durable cast-aluminium housing that uses die casts and extrusions for superior strength.



## Safe and Convenient

The Zeta125S series pipe lasers make your work more convenient and safer. Thanks to the unique vertical alignment, which can be easily performed with the remote control and a laser receiver, there is no need to climb down into the trench.



## Stay Visible and Confident - Become Efficient

The Zeta125G series with the green laser beam provides four times higher visibility, superior levelling accuracy and allows greater working distances. These features help you achieve the best visibility in nearly any working condition at a distance up to 200 meters. You can confidently achieve maximum efficiency with this pipe laser.

"S" Series vertical alignment and automatic dual axis compensation

Large digital display

Pivot point



Robust and waterproof

"S" Series vertical level

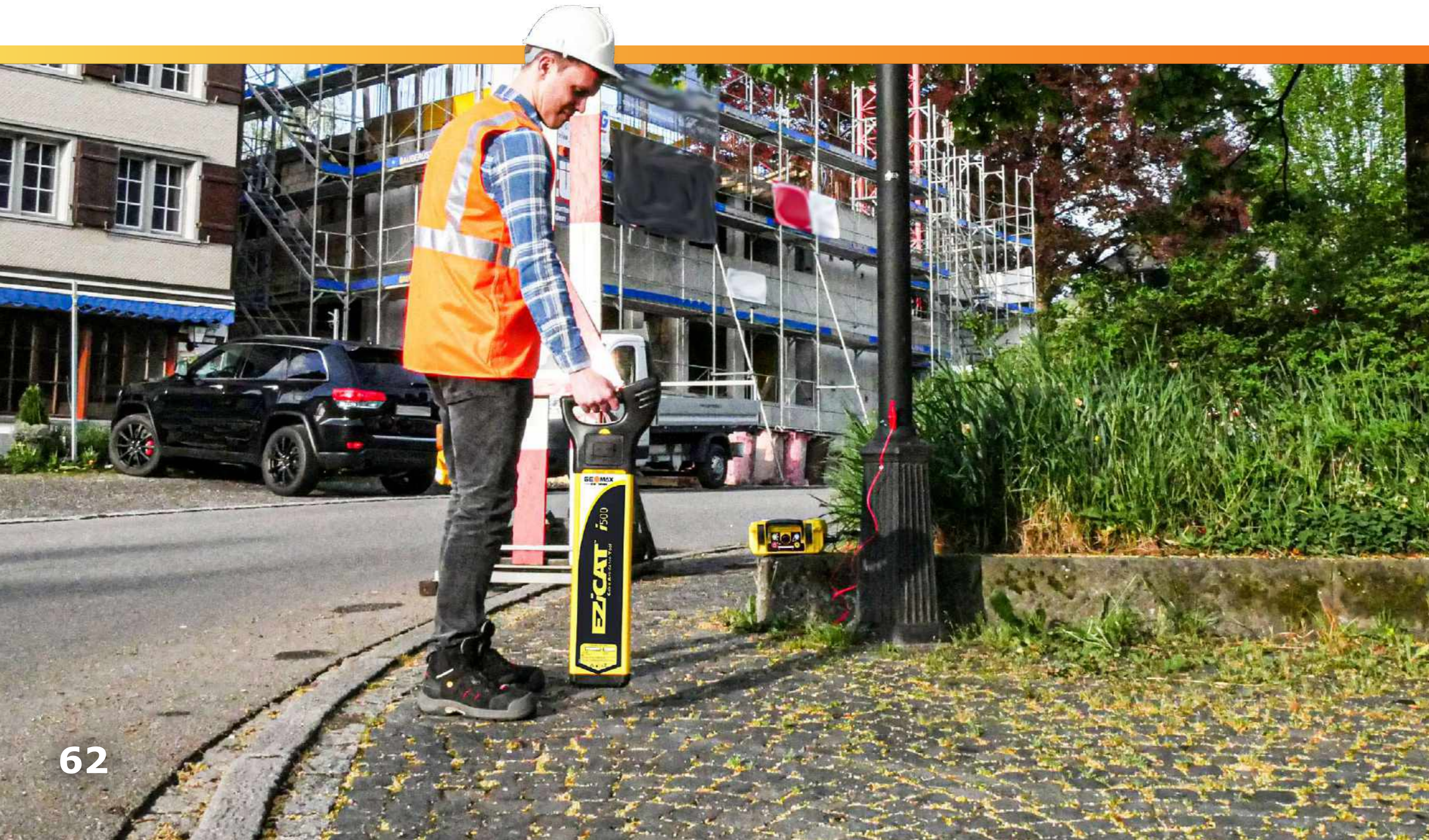
-10% to +40% Inclination angle



# Cable Locators

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

Works when you do





# EziSystem

Increase safety, decrease costs

Works when you do



Every year many site workers are injured and equipment is damaged due to accidentally 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.

	EZiCAT I500	EZiCAT I550	EZiCAT 750XF
Power	50 Hz model or 60 Hz model	50 Hz model or 60 Hz model	50 Hz model or 60 Hz model
Radio	15 kHz to 60 kHz	15 kHz to 60 kHz	15 kHz to 60 kHz
Auto	Power, Radio, 33 kHz	Power, Radio, 33 kHz	Power, Radio, 33 kHz
Transmitter mode	32.768 (33) kHz, 8.192 (8) kHz	32.768 (33) kHz, 8.192 (8) kHz	32.768 (33) kHz, 8.192 (8) kHz, 640 Hz, 512 Hz
Depth range	Line or Sonde 0.1 m to 3 m	Line or Sonde 0.1 m to 3 m	Line = 0.3 m to 3 m Sonde = 0.3 m to 9.99 m
Depth accuracy*	10%	10%	10%
Bluetooth®	-	-	Class 2 Low energy
GPS**	-	-	Chipset (1): u-blox®GPS; Type: GPS L1C/A; Accuracy (2): Horizontal Position 2.5 m Autonomous, 2.0 m SBAS, CEP; Start time: Cold 45 s typical, Aided 7 s typical, Hot 1 s typical
Memory capacity	-	-	64 MB
Battery	6 x AA Alkaline (IEC LR6) supplied	6 x AA Alkaline (IEC LR6) supplied	6 x AA Alkaline (IEC LR6) supplied
Battery operating time	40 h intermittent use (at 20 °C)	40 h intermittent use (at 20 °C)	40 h intermittent use (at 20 °C)
Dimensions (HxWxD)	760 x 250 x 85 mm	760 x 250 x 85 mm	760 x 250 x 85 mm
Weight with batteries	2.7 kg	2.7 kg	2.7 kg

\* Depth to an undistorted signal

\*\* (1) All data/information according to manufacturer u-blox®GPS; GeoMax Positioning does not assume any liability whatsoever for such information. (2) Accuracy is dependent upon various factors including atmospheric conditions, multipath, obstructions, signal geometry and number of tracked satellites.



## 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. 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

Easily locate and trace buried utilities over greater distances

The EZiSYSTEM xf utility locating and tracing equipment makes locating buried utilities easy and efficient. The EZiSYSTEM xf has additional low frequencies enabling you to locate and trace utilities over longer distances and in congested environments.



## X-PAD VU - Cable locator software

X-PAD VU makes it easy to analyse activity data from EZiCAT cable locators. Simply download the data via Bluetooth® to see how the data survey was conducted and issue reports of the collected data. This software can be used with the EZiCAT i750xf as well as previous models of EZiCAT I-Series.

The software allows you to analyse the following traceable data:

- GPS positioning of use
- Time and date of use
- Usage duration
- User identification
- Used detection modes
- Detected buried utilities
- Display of calibration dates

X-PAD VU allows a map view of the GPS-enabled locators, a detailed dashboard analysis, and issuing a summary report as well as incident reports.





# Accessories & Quality Management

Works when you do

GeoMax equipment is built to withstand any conditions you run into during your daily work.





# GeoMax Accessories

The perfect complements to every GeoMax solution

Scan to find out more on the **Accessories Overview Page**



Works when you do



## ZTW100

- Wooden tripod
- Shoulder strap and side clamp screws
- Packaged length 104 cm, extended length to 166 cm
- Weight 5.7 kg



## ZTA100

- Aluminium light weight tripod
- Shoulder strap and side clamp screws
- Packaged length 105 cm, extended length 167 cm
- Weight 4.5 kg



## CT160

- Aluminium tripod
- Shoulder strap and screws
- Range from 103 cm, up to 167 cm
- Weight 4.5 kg



## ZCA102

- Reflector carrier
- Tubular level
- Optical plummet for precise positioning



## ZCA100

- Tribrach carrier for GNSS antennas



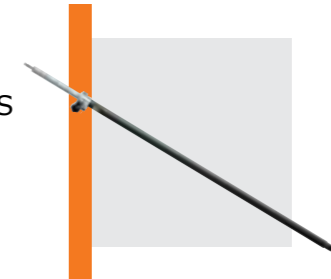
## ZCA101

- Tribrach carrier with stub for prisms



## ZPC200

- Telescopic carbon fibre
- Aluminium pole for GNSS
- Extends to 230 cm



## ZPC201

- Telescopic carbon fibre
- Aluminium pole for TPS
- Extends to 230 cm



## ZPC202

- GNSS pole
- Length 25 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
- Extends to 30 cm
- With a pin



# GeoMax Accessories

The perfect complements to every GeoMax solution

Works when you do



**ZRP1**  
360° prism with soft bag



**GRZ122**  
360° prism with 5/8" for GNSS antenna



**ZPR100 and ZTP100**

- Circular prism with red holder 0-offset
- ZTP100 target plate for precise aiming over long distances is separately available for precise positioning



**ZTR101**  
Standard tribrach without optical plummet



**ZMP101**  
Mini prism with tip



**ZTM100**

- 6 x 6 cm
- For measurement of surfaces standard EDM



**ZDE100**  
Diagonal eyepiece



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



## Li-Ion Batteries

- ZBA301 for Zipp10 Pro/ Zoom40 total stations, 4.4 Ah
- ZBA10 Li-Ion Battery 7.4 V for Zoom10
- ZBA201 for Zoom total stations and Zenith15/25 Pro GNSS, 2.6 Ah
- ZBA400 for Zoom total stations, 4.4 Ah
- ZBA601 for Zenith35 Pro GNSS, 3.4 Ah
- ZBA700 for Zenius5, 3.4 Ah
- ZBA210 for Zenius8, 5.2 Ah

## Chargers

- ZCH10 charger & ZAD10 adapter for ZBA10
- ZCH201 charger for ZBA201/400
- ZCH301 charger for ZBA301
- ZCH601 charger for ZBA601
- ZCH700 dual charger for ZBA700



**ZCB100**  
Backstrap for hard shell containers



**ZCT102**  
Hard shell container for two circular prisms, two carriers, two tribrachs



**MW24**

- Easy-to-use and light road measuring wheel
- Handle activated wheel brake

## GSS111

- Four-section telescopic staff
- Provides dual measuring faces
- Bar code and millimetre graduations

## GSS113

- Dual face high accuracy fibreglass levelling staff
- Length 3 m
- 1 section
- Barcode/E-Scale cm-graduation
- Circular bubble and handle

## CLR102

- Level staff 5 m
- 4 sections
- Front side with E-graduation
- Back side with mm-graduation



## FLEXI ROD

- Laser level staff with a mm-scale on front side
- Clamp for slide adapter, with bubble



# Selection of our portfolio

We have more for you



X-PAD Ultimate



X-PAD Fusion



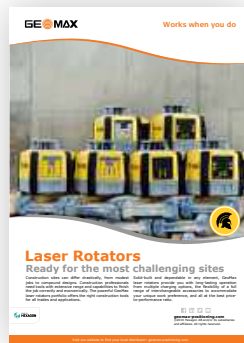
X-PAD 365



Total Stations



GNSS



Laser Rotators



Locators



[geomax-positioning.com](http://geomax-positioning.com)

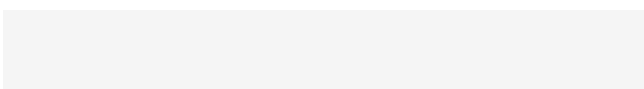
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**Distance meter (Prism Mode):** Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1; **Laser plummet:** Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1; **Distance meter (Non-Prism Mode accXess):** Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1



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