Works when you do

GeoMax TPS family

Fulfilling all user needs.

GeoMax has a complete portfolio of manual and robotic total stations to fulfil the measuring needs of all users.

Ensure ultimate reliability with GeoMax total stations even in challenging environments. Providing true cost-effectiveness, these solutions are equipped with the latest TPS technology in the field, helping you increase your productivity, reduce your expenses and bring your performance to a new level.

Scan to find the entire
GeoMax TPS family on our website

geomax-positioning.com

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Zoom95 Series

The perfect one-person total station

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

GeoMax offers a robotic total station portfolio that covers different user needs.

Combined with X-PAD Ultimate and field controllers, GeoMax provides an outstanding solution for all your work in the field and the office. Our Zoom75 and Zoom95 robotic total stations give you the option to work with two people and the onboard software, or a single surveyor with either a field controller of choice or a phone.

The Zoom95 is the true flagship of the GeoMax TPS portfolio. Featuring advanced STReAM360 technology to quickly locate, track and stay locked to the prism, this one-person total station substantially minimises the time of any survey task and maximises your performance and accuracy.

Zoom75 Series

The right solution to digitise your site

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

Modern data capturing & handling with Zoom75 and Zoom95

User-friendliness and flexibility make it easy to start digitising your construction site. Eliminate cumbersome documents. Upload your plans to the TPS, and conveniently display 3D renderings and edit your BIM modules on-site, using the large screens available on our GeoMax robotic total stations. Big files can be handled quickly and easily, thanks to the instrument's powerful processor.

The Zoom75 is a smart, affordable choice for both novice and experienced surveyors. As a reliable one-person total station, the Zoom75 has an optional long-range Bluetooth handle, along with the GeoTRAil function that finds your prism based on the GNSS position transferred from your field controller.

Zoom50 Series

When simplicity meets performance

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

With the 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.

X-Pole - when GNSS meets TPS

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.

Zoom40 Series

Stay flexible, stay accurate

Operate it your way, store it your way, process it your way!

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”.

Filippo Raschellà

Surveyor in construction

With the Zoom40 you can easily manage survey measurements and graphics, no matter where you are - at the seaside or in an office.

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

Zoom25 Series

When simple and reliable is what you want

The enhanced design of the Zoom25 protects the instrument from extreme conditions.

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.

The 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.

Stefano Pozzoli

Surveyor

Since I purchased the Zoom25 with X-PAD Ultimate, my way of working is much improved. The intuitive interface and the CAD function help a lot. It enables me to make direct verification of what is being captured in the field and no longer find bad surprises when arriving at the office.

Scan to find out more on the
Zoom25 Product Page

Zoom10

More convenience and smoother workflow

The Zoom10 manual total station is a reliable and robust field solution at an affordable price.

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 350m 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.

Andrés Flores

Surveying Engineer

My experience with the Zoom10 and X-PAD has been extremely satisfactory: the simplicity of importing / exporting data, the convenience of my cell phone and the fluidity of the application have greatly facilitated the work. The Zoom10 allows me to survey and stake out both properties and roads in a very simple way, thanks to its integrated road module. Without a doubt, it fully complies with the search for quality at an affordable price.

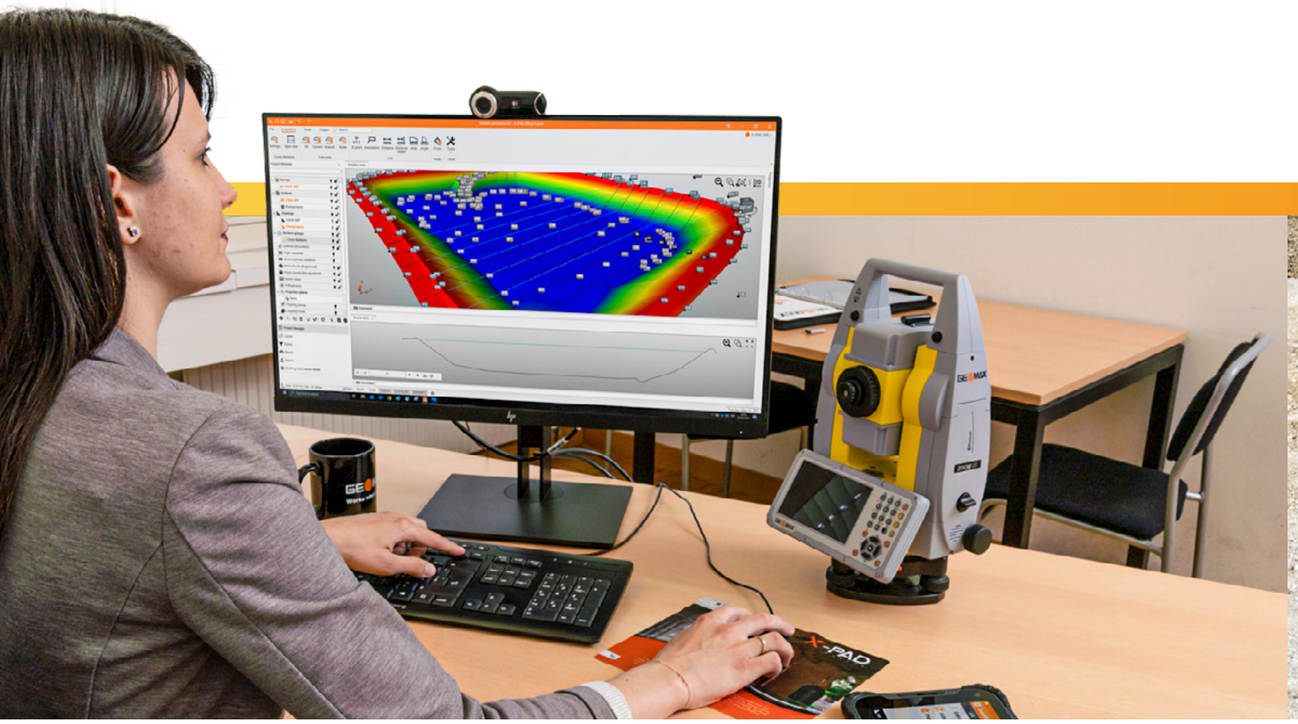
Scan to find out more on the
Zoom10 Product Page

X-PAD Suite

The heart of every GeoMax solution

Works when you do

Scan to learn more about
X-PAD Suite



Alongside our hardware, GeoMax offers a full suite of X-PAD software solutions that delivers flexibility, ease of use and savings in time and costs.

With its full portfolio of field software, office software and an intuitive cloud platform, X-PAD is the thread that seamlessly connects every step of the workflow. The software suite has been developed based on our customer feedback and perfectly matches the TPS workflows. It is so easy to use that no extra training is needed, although it is always available upon request.

X-PAD FUSION

X-PAD Fusion – All-in-one office software

The GeoMax software offering is enhanced by X-PAD Fusion, a desktop software directly integrating geospatial data from TPS, GNSS, Scanners and other sensors in a single environment. Different from 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.

X-PAD ULTIMATE

X-PERT

X-PAD field software – Intuitive, flexible, modern

Our fully-featured X-PAD field software gives you the flexibility to choose your preferred operating system: Android for field controllers and Windows running onboard the TPS. 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 is always maintained without any extra costs. With the unique X-PAD Ultimate feature, X-TILT, and the Zenius800, inaccessible points are no longer a challenge. X-TILT automatically calculates a point position by tilting the tablet attached to the prism pole, in two directions.

X-PAD 365

X-PAD 365 – One platform, endless services

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. Your information is always safe, thanks to automatic backups. Furthermore, the Collaborative Survey and Stakeout feature allows several users to work on the same surveying or stakeout project together, sharing real-time surveyed points and drawings and immediately seeing their progress.

GeoMax TPS Comparison Chart

Works when you do

	Zoom10	Zoom25	Zoom40	Zoom50	Zoom75	Zoom95
ANGLE MEASUREMENTS						
Accuracy	2″	1″, 2″, 5″	2″, 5″	1″, 2″, 5″	1″, 2″, 3″	1″, 2″, 3″
Display resolution	1″, 5″, 10″	1″	1″	1″	0.1″, 1″, 5″,10″	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
TELESCOPE						
Type		neXus	neXus	accXess	accXess	accXess
Magnification	30x	30x	30x	30x	30x	30x
NavLight™ Range	-	-	-	-	5m - 150m	5m - 150m
NavLight™ Accuracy	-	-	-	-	5cm at 100m	5cm at 100m
DISTANCE MEASUREMENTS - PRISM						
Range	3,000m	3,500m (Std. Prism)	3,500m (Std. Prism)	3,500m (Std. Prism) / 10,000m*	3.500m (Std. Prism) / 10,000m*	3,500m (Std. Prism) / 10,000m*
Accuracy	3mm + 2ppm	2mm + 2ppm	2mm + 2ppm	2mm + 2ppm	1mm + 1.5ppm	1mm + 1.5ppm
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
DISTANCE MEASUREMENTS - NON-PRISM**						
Range	350m	500m	500m	500m / 1.000m	500m / 1,000m	500m / 1,000m
Accuracy	3mm + 2ppm	2mm + 2ppm	2mm + 2ppm	2mm + 2ppm (<500m); 4mm + 2ppm (>500m)	2mm + 2ppm (<500m); 4mm + 2ppm (>500m)	2mm + 2ppm (<500m); 4mm + 2ppm (>500m)
Footprint		8x 20mm @ 50m	12x24 mm @ 50m	8x 20mm @ 50m	8x 20mm @ 50m	8x 20mm @ 50m
INTERFACE						
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., 280x160 pixels, backlit, 8 lines; heatable	Colour- & Touch; 3.5″ Q-VGA 320x240 pixels with LED backlight, 10 lines	Colour- & Touch; 3.5″ Q-VGA 320x240 pixels with LED backlight, 10 lines	Colour- & Touch; 5″ WVGA 800x480 pixels with LED backlight	Colour- & Touch; 5″ WVGA 800x480 pixels 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 & longrange Bluetooth handle	internal & longrange 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
SOFTWARE						
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*****
PHYSICAL SPECIFICATIONS						
Weight	Approx. 5.5kg with battery & tribrach	4.2 - 4.5kg w/o battery and tribrach	5.3kg w/o battery & tribrach	4.2 - 4.5kg w/o battery and tribrach	5.0 - 5.3kg w/o battery and tribrach	5.0 - 5.3kg w/o battery and tribrach
Operating temperature	-20°C - 50°C	-20°C - 50°C (optional Polar Version -30°C - 50°C)	-20°C - 50°C	-20°C - 50°C (optional Polar Version -30°C - 50°C)	-20°C - 50°C	-20°C - 50°C
Protection class	IP54	IP55	IP54	IP55	IP55	IP55
POWER SUPPLY						
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
PLUMMET						
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
MOTORISATION						
Scout -360° Prism Search: Range				-	300m at round prism	
AiM - Prism fine aiming: Range / Accuracy				1000m at round prism / 1″	1000m at round prism / 1″	
TRack -Prism following						
Range				800m at round prism	800m at round prism	
Max. speed				90km/h at 100m	90km/h at 100m	

* 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

GeoMax additional offerings

Providing more to your success

GeoMax field controllers

GeoMax field controllers complete the TPS solution offering and empower the instruments to reach their full potential.

Hexagon – Guaranteed reliability

Hexagon is known for driving innovation and technological progress. As part of this group, GeoMax can guarantee its solutions work when you do.

Worldwide GeoMax technical & training services

The GeoMax global support team is located around the world – support is available 24 hours a day. With the Total Care Shield Warranty, GeoMax helps you keep your costs under control and reduce the downtime of your GeoMax instruments to a minimum.

GeoMax service centres are at your disposal worldwide.

https://geomax-positioning.com/contact-us/find-a-distributor

GeoMax Academy offers regular technical online webinars. Watch them on demand: https://geomax-positioning.com/services-and-support/webinars

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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