GEOMAX

Works when you do

GeoMax TPS family
Reliability and productivity across applications

Whether working in a team or solo, discover our easy-to-use total stations for boosting daily performance in surveying, engineering and construction applications.

Providing ultimate reliability, the GeoMax total station range is equipped with the latest TPS technology, helping you increase productivity, optimise resources, streamline your operations, and bring your performance to a new level.

Scan to learn more about the
GeoMax TPS family

geomax-positioning.com

Zoom95 Series
The perfect one-person, robotic total station

Zoom75 Series
The right solution to digitise your site

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 two operation options: work with two people using the onboard software or as a single surveyor running X-PAD on a field controller or smartphone.

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

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.

Modern data capturing & handling with Zoom75 and Zoom95

User-friendliness and flexibility make it easy to start digitising your construction site. Eliminate outdated documents and upload your digital plans to the TPS. The large colour screen clearly displays 3D renderings and enables in-field editing of BIM modules. 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
Simplicity meets performance

Zoom45 Series
The manual total station for surveying and layout tasks

High performance on all levels even under most challenging conditions

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 total station can operate in temperatures 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.

All-in-one manual total station

The Zoom45 is defined by its rapid point measurements, durability, straightforward workflows and intuitive interface. This makes it the go-to manual total station for construction surveyors and operating crews alike.

Intuitive operation and durable quality mean efficiency across sites and environmental conditions. A large 5-inch touchscreen paired with an Android™ OS makes it easy to work with graphics and visualisation tools in X-PAD Ultimate for faster layout.

Additionally, connecting the Zoom45 with the X-PAD ecosystem* provides big advantages across the workflow. Visualise data with X-PAD Ultimate for streamlined work in multi-operator teams. Easily exchange data with the office via the X-PAD 365 cloud service for a synced and highly efficient digital dataflow to your work with manual total stations.

* X-PAD software license must be purchased separately and is not included with the product.

Scan to learn more about the
Zoom50 Series

Scan to learn more about the
Zoom45 Series

Zoom10 Pro
Built for the field, empowered by X-PAD

Zipp02
Precise and easy to use digital theodolite

For construction and surveying professionals upgrading from tapes and strings, the Zoom10 Pro offers a way to enter the world of digital measuring with a low total cost of ownership and minimal training.

The Zoom10 Pro is an easy-to-use, reliable and robust manual total station offering an excellent price to performance ratio that makes it a smart investment to start working with total stations.

Integrated into the powerful but intuitive X-PAD software* ecosystem, it is a solution that both meets you where you're at and can scale as you expand into more complex tasks and digital workflows.

Embedded in GeoMax's excellent local service and support network, you can get help when you need it to keep working, and with vast training resources, you can easily expand your skills to get the most out of your Zoom10 Pro.
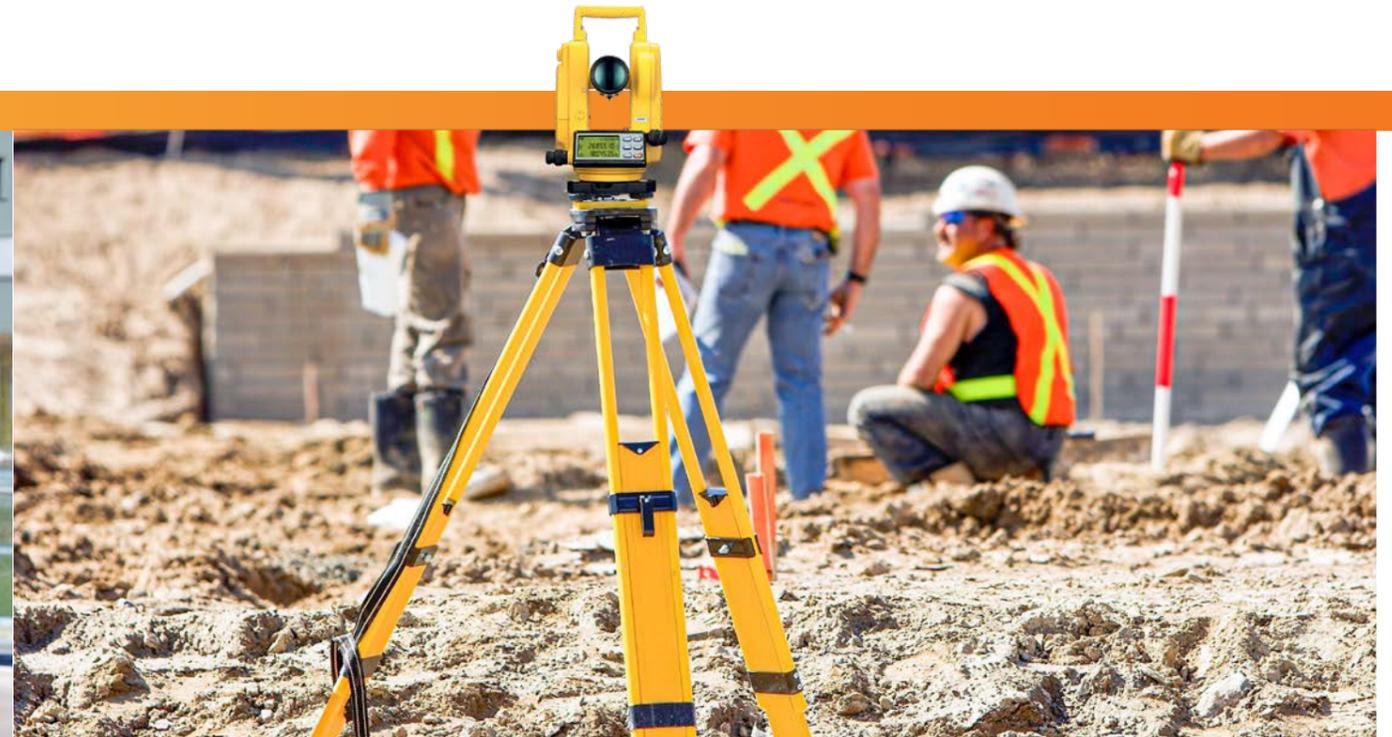
* X-PAD software license must be purchased separately and is not included with the product.

For all your general construction tasks requiring accurate angle measurement.

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. The Zipp02 is the tool of your choice when it comes to checking angles, alignments, grade work and short range levelling.

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.

Scan to learn more about the
Zoom10 Pro

Scan to learn more about the
Zipp02

X-PAD Suite

The heart of every GeoMax solution

Alongside our hardware, GeoMax offers a complete software suite that enhances your workflow, saving you time and money.

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 Ultimate - The Ultimate solution in the field

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 is always maintained without any extra costs. With the unique X-PAD Ultimate feature, X-TILT, and the Zenius08 Android™ tablet, inaccessible points are no longer a challenge. By keeping your X-PERT service active, you can continuously profit from the latest software improvements.

X-PAD Office Fusion – Multiple sensors, One Platform

X-PAD Office Fusion is the ultimate desktop software for integrating geospatial data from TPS, GNSS, scanners, and other sensors into a unified environment. Designed for surveyors and construction professionals, it combines user-friendly operation with advanced tools to meet all your geospatial needs. A unique market offering, X-PAD Office Fusion is the single software solution for managing geospatial data from multiple sensors, customised to address local requirements.

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 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.

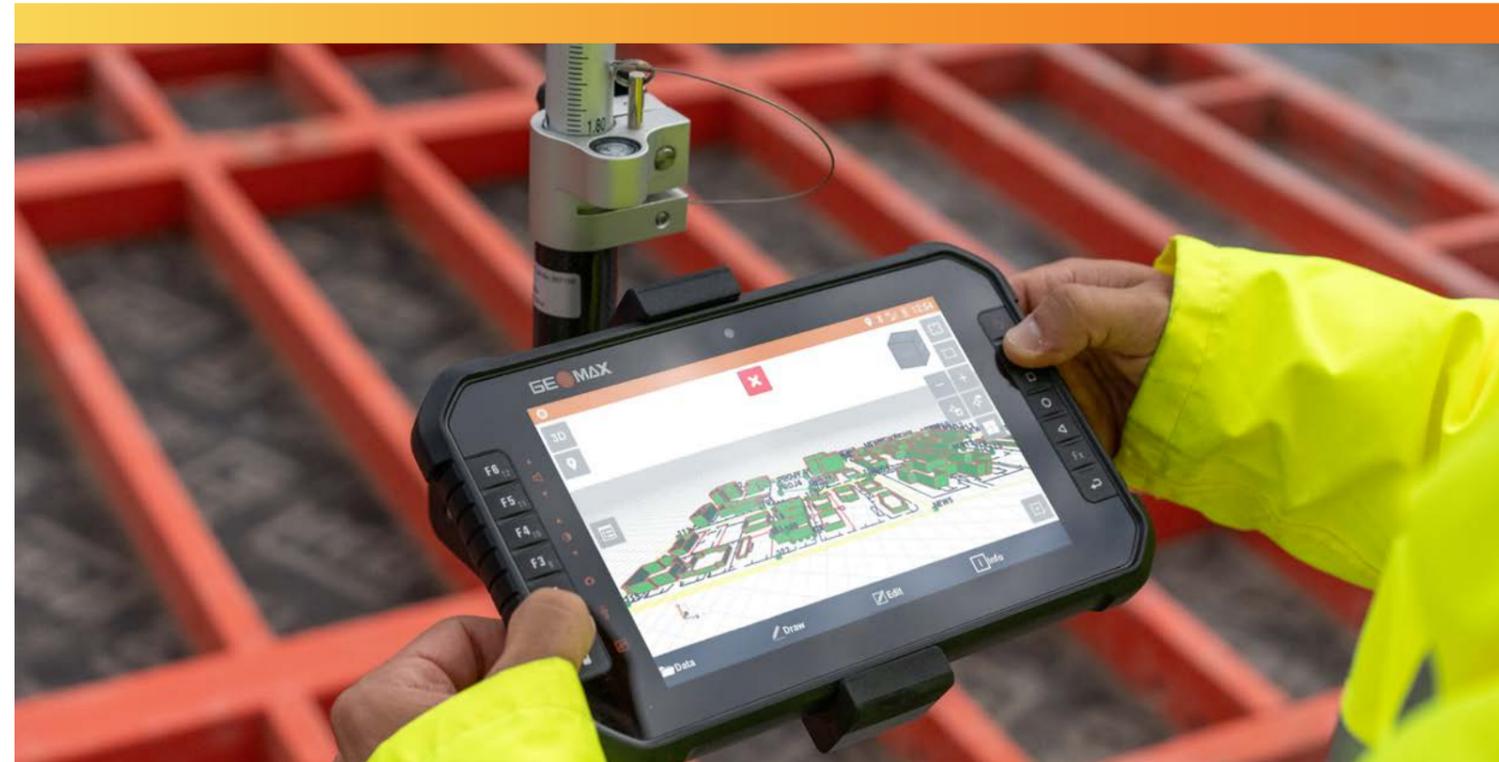And with automatic and manual backup for X-PAD Ultimate, you will never lose your data.

Scan to learn more about
X-PAD Suite

Zenius08

The rugged Android™ tablet for field work in all conditions, all day long

Scan to learn more about the
Zenius08

Long workdays take you to challenging sites and deadlines don't wait for the weather. With the Zenius08, continue measuring even in harsh conditions thanks to a rugged, waterproof build, robust screen protection, 6 programmable hardware keys and easy operation. Stay powered through your longest days with 15-hour, exchangeable batteries.

Fitting into and improving your GeoMax field workflow, the Zenius08 paired with X-PAD Ultimate field software connects with GeoMax total station and GNSS sensors. Long-range Bluetooth® connection frees you to move around the site with fewer setups, and 5G and Wi-Fi connection support data transfer and video calls with the office.

A rugged, durable design paired with high-performance processing power ensures the Zenius08 is a long-lasting instrument here to stay. Built with the latest Android™ technology, benefit from system upgrades that secure your investment into the future.

Designed for

X-PAD

Zenius08 is fully integrated in the X-PAD ecosystem. Upload all your sensor data from X-PAD Ultimate via X-PAD 365 to build deliverables in X-PAD Office Fusion. In the office software, images taken with the Zenius08 camera can be processed, generating dense point clouds and even 3D orthophotos. As-built verification and streamlined data exchange provide certainty on site through checks that minimise rework and revisits.

GeoMax TPS Comparison Chart

	Zoom10 Pro	Zoom45	Zoom50	Zoom75	Zoom95
ANGLE MEASUREMENTS					
Accuracy	2"	2", 5"	1", 2", 5"	1", 2", 3", 5"	1", 2", 3", 5"
Display resolution	1", 5", 10"	0.1"	1"	0.1"	0.1"
Method	Absolute encoding	Absolute, continuous	Absolute, continuous, diametrical	Absolute, continuous, diametrical	Absolute, continuous, diametrical
Compensation	Dual axis	Quadruple axis	Quadruple axis	Quadruple axis	Quadruple axis
TELESCOPE					
Type	Zoom	neXus	accXXess	accXXess	accXXess
Magnification	30x	28x	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
DISTANCE MEASUREMENTS - PRISM					
Range	3.000 m	5.000 m	3.500 m (Std. Prism) / 10.000 m*	3.500 m (Std. Prism) / 10.000 m*	3.500 m (Std. Prism) / 10.000 m*
Accuracy	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)	0.5/1/1.5 sec	1.1/1.4 sec	1/2.4 sec	0.8/2.4 sec	0.8/2.4 sec
DISTANCE MEASUREMENTS - NON-PRISM**					
Range	600 m	500 m	500 m / 1.000 m	500 m / 1.000 m	500 m / 1.000 m
Accuracy	3 mm + 2 ppm	3 mm + 2 ppm (<200 m); 5 mm + 3 ppm (>200 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)	2 mm + 2 ppm (<500 m); 4 mm + 2 ppm (>500 m)
Footprint	8 x 20 mm @ 50 m	12 x 24 mm @ 50 m	8 x 20 mm @ 50 m	8 x 20 mm @ 50 m	8 x 20 mm @ 50 m
INTERFACE					
Keyboard	Two full alphanumeric	Two numeric***	Two full alphanumeric***	Two full alphanumeric***	Two full alphanumeric***
Display	B&W, high res., 280x160 pixels with backlight; 6 lines	Colour & Touch, 5" WVGA 800x480 pixel with LED backlight	Colour & Touch; 3.5" Q-VGA 320x240 pixel with LED backlight, 10 lines	Colour & Touch; 5" WVGA 800x480 pixel with LED backlight	Colour & Touch; 5" WVGA 800x480 pixels with LED backlight
Data recording	Internal memory; 20'000 points	Internal memory, 16 GB	Internal memory, 50'000 points	Internal memory, 2 GB	Internal memory; 2 GB
Bluetooth®	Yes	Yes	Yes	internal & long-range Bluetooth® handle	internal & long-range Bluetooth® handle
Removable memory	SD card	USB stick	USB stick	SD card / USB stick	SD card / USB stick
Ports	Serial; USB mini	USB mini	Serial; USB; and external power	Serial; USB; USB mini; external power; WLAN	Serial; USB; USB mini; external power; WLAN
WLAN		Yes		Yes	Yes
SOFTWARE					
Operating System	RealTime Operating System	Android™ 11	Embedded CE	Windows® EC 7.0	Windows® EC 7.0
Onboard Field Software	Yes	X-PAD Ultimate***	Yes	X-PAD Survey***	X-PAD Survey***
Remote Field Software (Android™)***	X-PAD Ultimate	X-PAD Ultimate	X-PAD Ultimate	X-PAD Ultimate	X-PAD Ultimate
PHYSICAL SPECIFICATIONS					
Weight	Approx. 5.5 kg w/o battery & tribrach	5.1 kg w/o battery and 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	-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	IP55	IP55	IP55
POWER SUPPLY					
Type/Operating time****	Removable; up to 16 hours	Removable; up to 8 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
MOTORISATION					
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"
TRack -Prism following					
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

GeoMax additional offerings

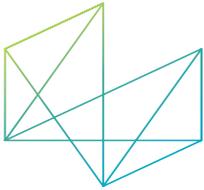## Providing more to your success

X-PAD Ultimate

X-PAD Office Fusion

X-PAD 365

GNSS Receivers

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.

The GeoMax Academy offers customised trainings for our partners and customers, as well as regular technical online webinars. To further support our customers, the GeoMax Academy features a Help Portal with user manuals, step-by-step guides, and tutorials with automatic translation to supported languages. Continuously updated, the Help Portal evolves to ensure you have access to the most up-to-date resources.

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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