

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



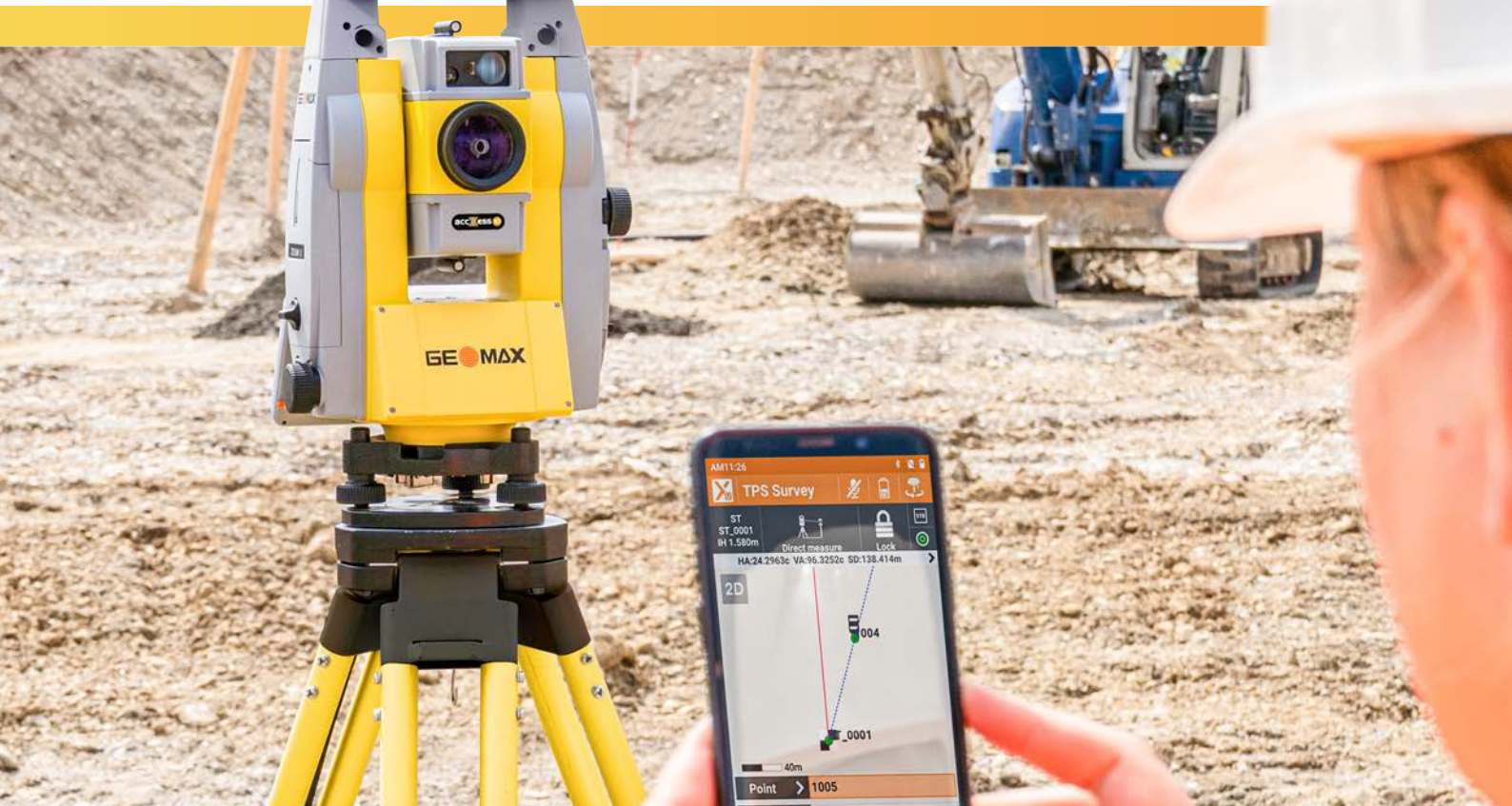
[geomax-positioning.com](https://www.geomax-positioning.com)

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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 STrAM360 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

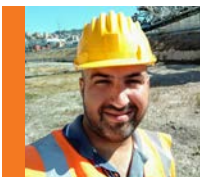
Stay flexible, stay accurate



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 Raschella
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

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 Ultimate

Increase productivity



Scan to learn more about
X-PAD Suite



X-PAD
ULTIMATE



X-PAD Ultimate is the most advanced field software solution for all users that are looking for a tool that grants productivity, easiness of use, scalability and full control of the data.

Running on Android devices, X-PAD Ultimate brings the best technology directly to the field and on your hand: a full 3D viewer and CAD system to view and edit the drawings, integration of your data with all map types and support of the camera for augmented reality. Direct data exchange with a cloud platform for direct connection between field and office, the use of all sensors for a better experience in the field, voice commands to control the operations without the use of the hands are the key features to make your work efficient.

With X-PAD Ultimate you can be sure that TPS and GNSS products and many other sensors are fully integrated in your application workflow.

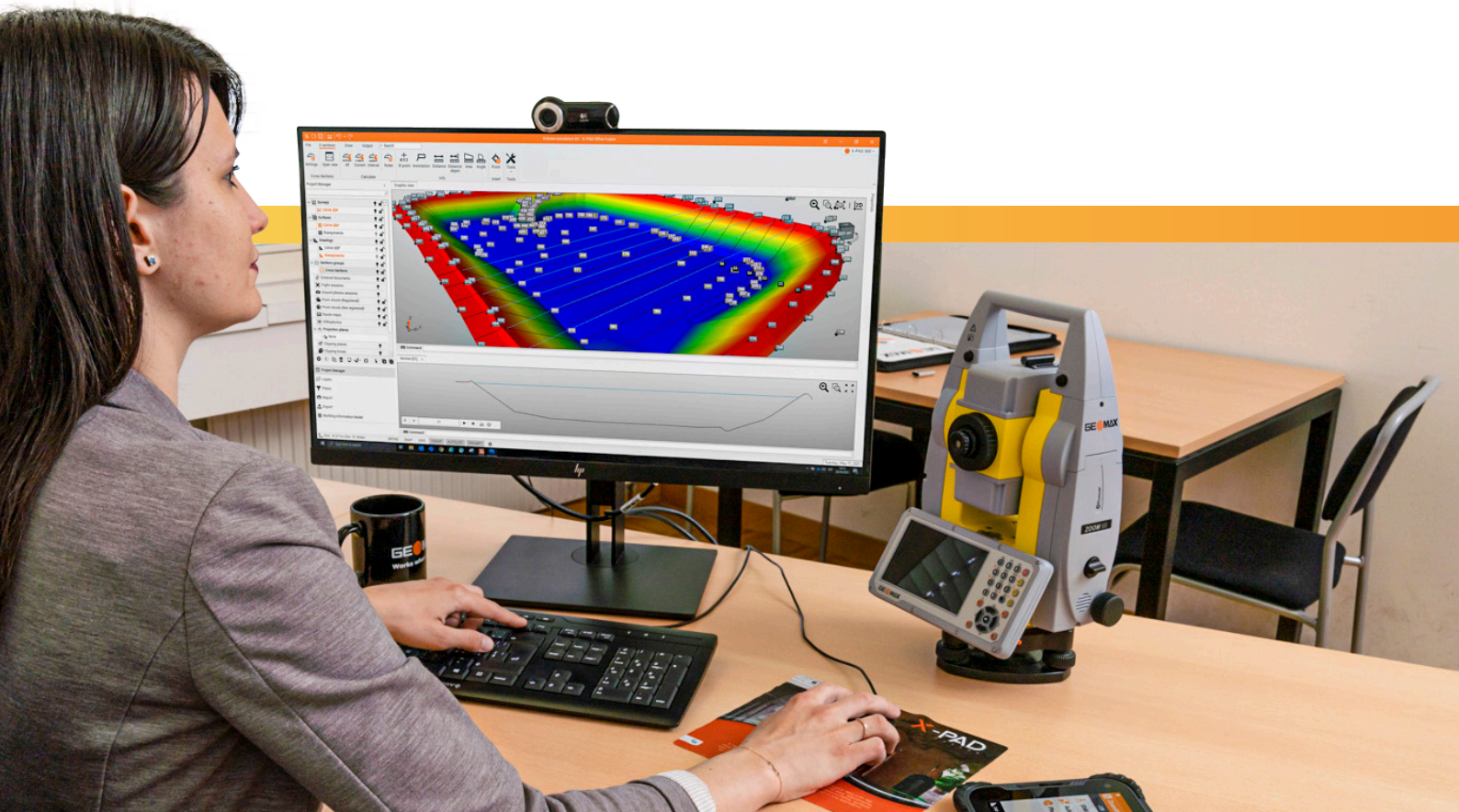
It is available in two tailored versions: X-PAD Ultimate Survey for surveyors and X-PAD Ultimate Build for construction professionals.

X-PERT - KEEP X-PAD AT ITS BEST

GeoMax X-PAD software has originally been developed taking your feedback aboard. To ensure that every new software feature is a perfect match with your needs, we exchange with you regularly. With SHIELD and X-PERT you receive new services that ensure you benefit from the latest improvements and have access to all X-PAD Ultimate software releases.

X-PAD Suite

The heart of every GeoMax solution



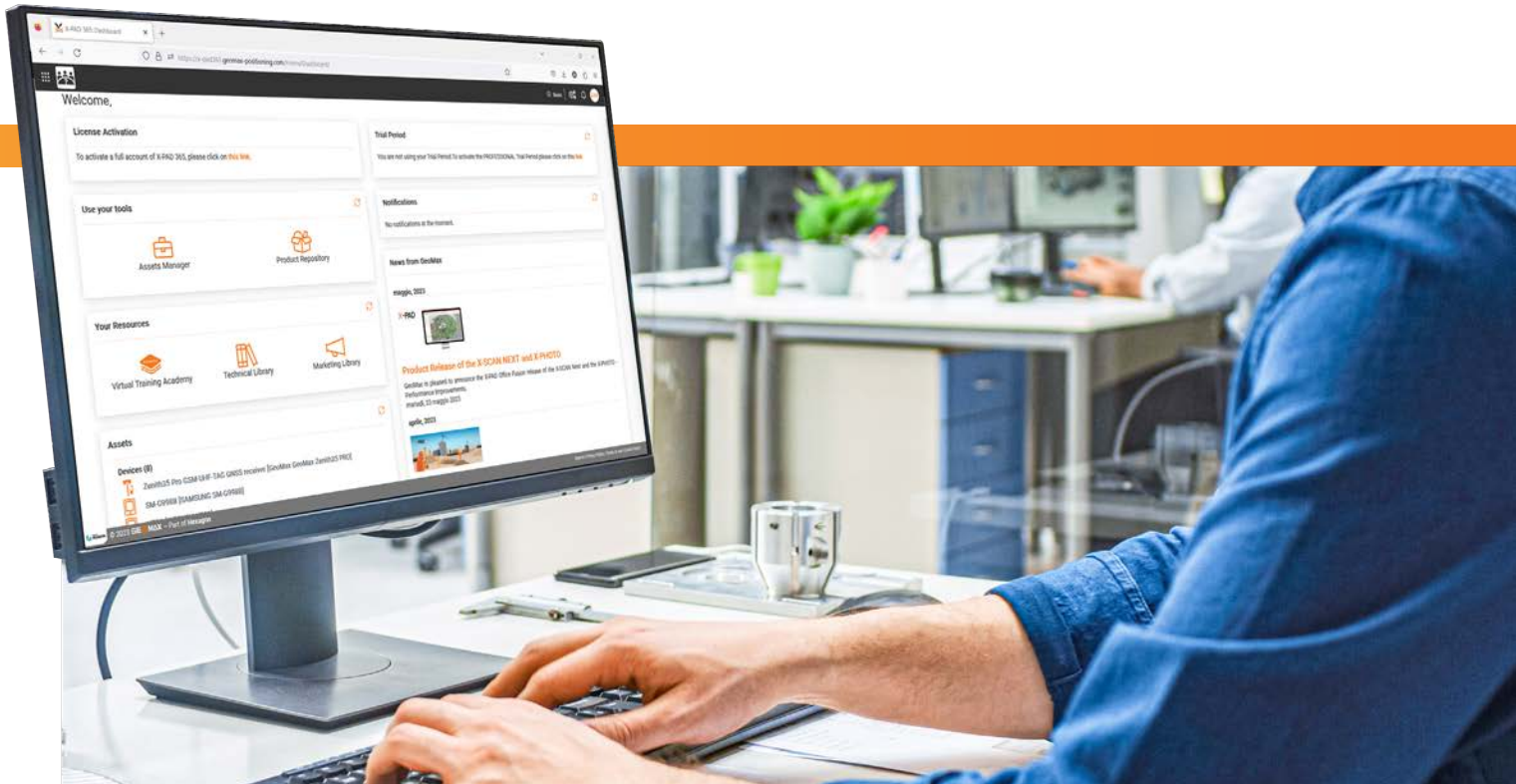
X-PAD
F U S I O N

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 365

More than a platform



GeoMax X-PAD software suite is continuously improving, applying your feedback to ensure our products meet our customers' needs. Our visionary approach to software and data management concentrates on both our individual software solutions (i.e. Ultimate, Office Fusion, 365, etc.) and how they work together to create a technology ecosystem in which our customers can operate with ease and maximum efficiency.

X-PAD 365, the GeoMax web-based cloud platform for geospatial data and services, was not only developed to meet the data management and collaboration challenges facing surveyors and construction professionals. It is equally important in providing our partner network with a scalable platform for day-to-day customer and equipment management that can be extended with a wide range of services.

Scan to access
X-PAD 365



GeoMax TPS Comparison Chart

	Zoom10	Zoom40	Zoom50
ANGLE MEASUREMENTS			
Accuracy	2"	2", 5"	1", 2", 5"
Display resolution	1", 5", 10"	1"	1"
Method	Absolute encoding	Absolute, continuous, diametrical	Absolute, continuous, diametrical
Compensation	Dual axis	Quadruple axis	Quadruple axis
TELESCOPE			
Type	neXus	neXus	accXess
Magnification	30x	30x	30x
NavLight™ Range	-	-	-
NavLight™ Accuracy	-	-	-
DISTANCE MEASUREMENTS - PRISM			
Range	3.000 m	3.500 m (Std. Prism)	3.500 m (Std. Prism) / 10.000 m*
Accuracy	3 mm + 2 ppm	2 mm + 2 ppm	2 mm + 2 ppm
Typ. time (fast/standard)	1/1.5 sec	2/2.4 sec	1/2.4 sec
DISTANCE MEASUREMENTS - NON-PRISM** *			
Range	350 m	500 m	500 m / 1.000 m
Accuracy	3 mm + 2 ppm	2 mm + 2 ppm	2mm + 2 ppm (<500m); 4mm + 2 ppm (>500m)
Footprint	8x 20mm @ 50 m	12x24 mm @ 50 m	8x 20mm @ 50 m
INTERFACE			
Keyboard	Two full alphanumeric	Two full alphanumeric***	Two full alphanumeric***
Display	B&W, high res., 160 x 96 pixels with backlight; 6 lines	Colour- & Touch; 3.5" Q-VGA 320x240 pixel with LED backlight, 10 lines	Colour- & Touch; 3.5" Q-VGA 320x240 pixel with LED backlight, 10 lines
Date recording	Internal memory; 20000 points	Internal memory; 2 GB	Internal memory, 50`000 points
Bluetooth	yes	yes	yes
Removable memory	SD card	USB stick	USB stick
Ports	Serial; USB mini	USB; USB mini	Serial; USB; and external power
SOFTWARE			
Operating System	Embedded CE	Open Windows CE	Embedded CE
Open for 3rd party SW	Open to X-PAD Ultimate GO	yes	-
Basic package	-	Fully flexible*****	yes
Advanced package	-	Fully flexible*****	COGO; Ref. Arc; Road 3D, Traverse; PIN/ PUK
PHYSICAL SPECIFICATIONS			
Weight	Approx. 5.5 kg with battery & tribrach	5.3 kg w/o battery & tribrach	4.2 -4.5 kg w/o battery and tribrach
Operating temperature	-20°C - 50°C	-20°C - 50°C	-20°C - 50°C (optional Polar Version -30°C - 50°C)
Protection class	IP54	IP54	IP55
POWER SUPPLY			
Type/Operating time****	removable; 10 hours	removable; 10 hours	removable; 16 hours
PLUMMET			
Type	Laser point, adjustable brightness	Laser point, adjustable brightness	Laser point, adjustable brightness
MOTORISATION			
Scout -360° Prism Search: Range			
AiM - Prism fine aiming: Range / Accuracy			
TTrack -Prism following			
Range			
Max. speed			

* 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

Works when you do

Zoom75

Zoom95

1", 2", 3", 5"

1", 2", 3", 5"

0.1", 1", 5", 10"

0.1"

Absolute, continuous, diametrical

Absolute, continuous, diametrical

Quadruple axis

Quadruple axis

accXXess

accXXess

30x

30x

5 m - 150 m

5 m - 150 m

5 cm at 100 m

5 cm at 100m

3.500 m (Std. Prism) / 10.000 m*

3.500 m (Std. Prism) / 10.000 m*

1 mm + 1.5 ppm

1 mm + 1.5 ppm

0.8/2.4 sec

0.8/2.4 sec

500 m / 1.000 m

500 m / 1.000 m

2mm + 2 ppm (<500m); 4mm + 2 ppm (>500m)

2mm + 2 ppm (<500m); 4mm + 2 ppm (>500m)

8x 20mm @ 50 m

8x 20mm @ 50 m

Two full alphanumeric***

Two full alphanumeric***

Colour- & Touch; 5" WVGA 800x480 pixel with LED backlight

Colour- & Touch; 5" WVGA 800x480 pixels with LED backlight

Internal memory, 2 GB

Internal memory; 2 GB

internal & longrange Bluetooth handle

internal & longrange Bluetooth handle

SD card / USB stick

SD card / USB stick

Serial; USB; USB mini; external power; WLAN

Serial; USB; USB mini; external power; WLAN

Open Windows CE

Open Windows CE

yes

yes

Fully flexible*****

Fully flexible*****

Fully flexible*****

Fully flexible*****

5.0 - 5.3 kg w/o battery and tribrach

5.0 - 5.3 kg w/o battery and tribrach

-20°C - 50°C

-20°C to 50°C

IP55

IP55

removable; Up to 8 hours

removable; Up to 8 hours

Laser point, adjustable brightness

Laser point, adjustable brightness

-

300 m at round prism

1000 m at round prism / 1"

1000 m at round prism / 1"

800 m at round prism

800 m at round prism

90 km / h at 100 m

90 km / h at 100 m

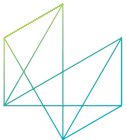
GeoMax additional offerings

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.

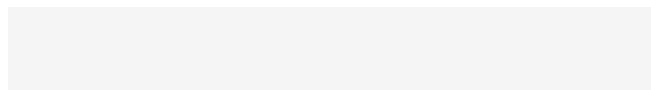
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GeoMax Academy offers regular technical online webinars. Watch them on demand: <https://geomax-positioning.com/services-and-support/webinars>



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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