



Robotic Total Station

With the GeoMax Zoom70 true one-man total station, you can significantly increase your efficiency. The support of the X-PAD-based GNSS prism search, seamlessly merged with

the proven powerful accXXess EDM with its Track and AiM technology, the Zoom70 provides high flexibility and performance needed for your daily job.



Advanced technology

ONE-MAN TOTAL STATION

GeoTRAIL: Equipped with the long-range Bluetooth® handle, the Zoom70 transforms into a true one-man total station. It supports the advanced prism search, based on the GNSS position of the controller, mounted on the pole. Due to its seamless integration into X-PAD ULTIMATE field software, GeoTRAIL combines simplicity and high performance.

As there is no need for special, expensive and power-consuming active prisms, this total station is ideal on any worksite. Zoom70 keeps your pole lightweight and convenient to carry all survey-day long!

TRack: Another element of the STReAM360 is the tracking functionality; the Zoom70 is continuously tracking your target. Once locked onto, the instrument remains accurately aimed even on fast moving targets.

AiM: The Zoom70 aims accurately at any prism, without the need to look through the telescope. Highly reliable measurements are performed automatically and are consistently repeatable.

X-PAD SOFTWARE

X-PAD ULTIMATE is the dedicated GeoMax field software and is available in two tailored versions:

- X-PAD ULTIMATE SURVEY for surveyors
- X-PAD ULTIMATE BUILD for construction professionals running on Android operating systems.

Due to the close cooperation with key-users all around the world, X-PAD ULTIMATE is continuously kept up-to-date and convinces due to its perfect balance between clear structure, straight forward workflows and high functionality.

The GeoMax software offering is completed by X-PAD FUSION, a fully featured office software that even features automatic point cloud registrations.

Just as the field software, X-PAD FUSION is versatile and flexible enough to fuse data of GeoMax- but also third-party sources, such as drones, in one database, eliminating time-consuming data conversions and risks of data loss.



High performance



X-MOTION™ HYBRID DRIVES



The new Zoom70 incorporates X-motion hybrid drives, promoting automation performance compared to conventional drives. It will follow your target at 90 km/h at 100 m distance.

FULL FLEXIBILITY



The GeoMax Zoom70 meets all your connectivity needs. Use its built-in Bluetooth® for medium range data transfer or its dedicated long-range Bluetooth® handle for highest performance over long distances. Either way, it is ideal for one-man robotic surveys.

Combine your preferred software and field controller to perform remote control tasks with increased productivity. The Windows® CE operating system installed on Zoom70 allows you to run a variety of powerful field software packages onboard. This provides you the freedom to choose the software that best suits your needs.



With the one-man robotic total station, GeoMax Zoom70 Series fulfills your needs in the field.



Angle measurements

Accuracy	1" (0.3 mgon), 2" (0.6 mgon), 5" (1.5 mgon)
Display resolution	0.1" (0.1 mgon)
Method	Absolute, continuous, diametrical
Compensation	Quadruple axis

Telescope

Magnification	30x
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Distance measurements - prism

Range / accuracy / time	Standard mode: 3500 m/1 mm + 1.5 ppm/typ. 0.8 sec* Long mode: >10,000 m / 5 mm+2 ppm / typ. 2.5 sec
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Distance measurements - reflectorless

Range	accXess5 / accXXess10 500 m / 1000 m
Accuracy	2 mm + 2 ppm**
Time	Typ. 3 sec
Precise capture	8x20 mm at 50 m

Motorisation

Technology	Hybrid Drives
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GeoTRAIL - GNSS based prism search

Speed	50 g/sec
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TRack - Automatic prism logging

Range	800 m at round prism
Max speed	90 km/h at 100 m

AiM - Automatic prism fine aiming

Range	1,000 m at round prism
Hz/V accuracy	1"
Technique	Image processing

NavLight™ - Alignment aid

Range	5 m to 150 m
Accuracy	5 cm at 100 m

Interface

Keyboard	Full alphanumeric; 35 keys; illuminated (2nd optional)
Display	Full VGA 640 x 480 colour and touch with LED backlight
Data recording	1 GB internal memory; removable SD card and USB stick
Ports	Serial; USB; internal Bluetooth®; long-range Bluetooth® handle and external power
Operating system	Microsoft® Windows® CE 6.0

Physical specifications

Weight	5.0 - 5.3 kg (w/o battery and tribrach)
Operating- / storage temperature	-20° C to 50° C / -40° C to 70° C
Protection class	IP55 dust and waterproof rating
Humidity	95%, non-condensing

Power supply

Internal battery	Removable Li-Ion 4.4 Ah / 7.4 V
Operating time	7-10 h***

Plummet

Type	Laser point, adjustable brightness
Accuracy	1.5 mm at 1.5 m instrument height

* Fast mode;
** > 500 m: 4 mm + 2 ppm;
*** Single measurement every 30 second at 25° C. Battery time may be shorter depending on conditions.



Distance meter (reflector mode): Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1; **Laser plummet:** Laser class 2 in accordance with IEC 60825-1 resp. EN 60825-1; **Distance meter (reflectorless mode):** Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1.



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