



# 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

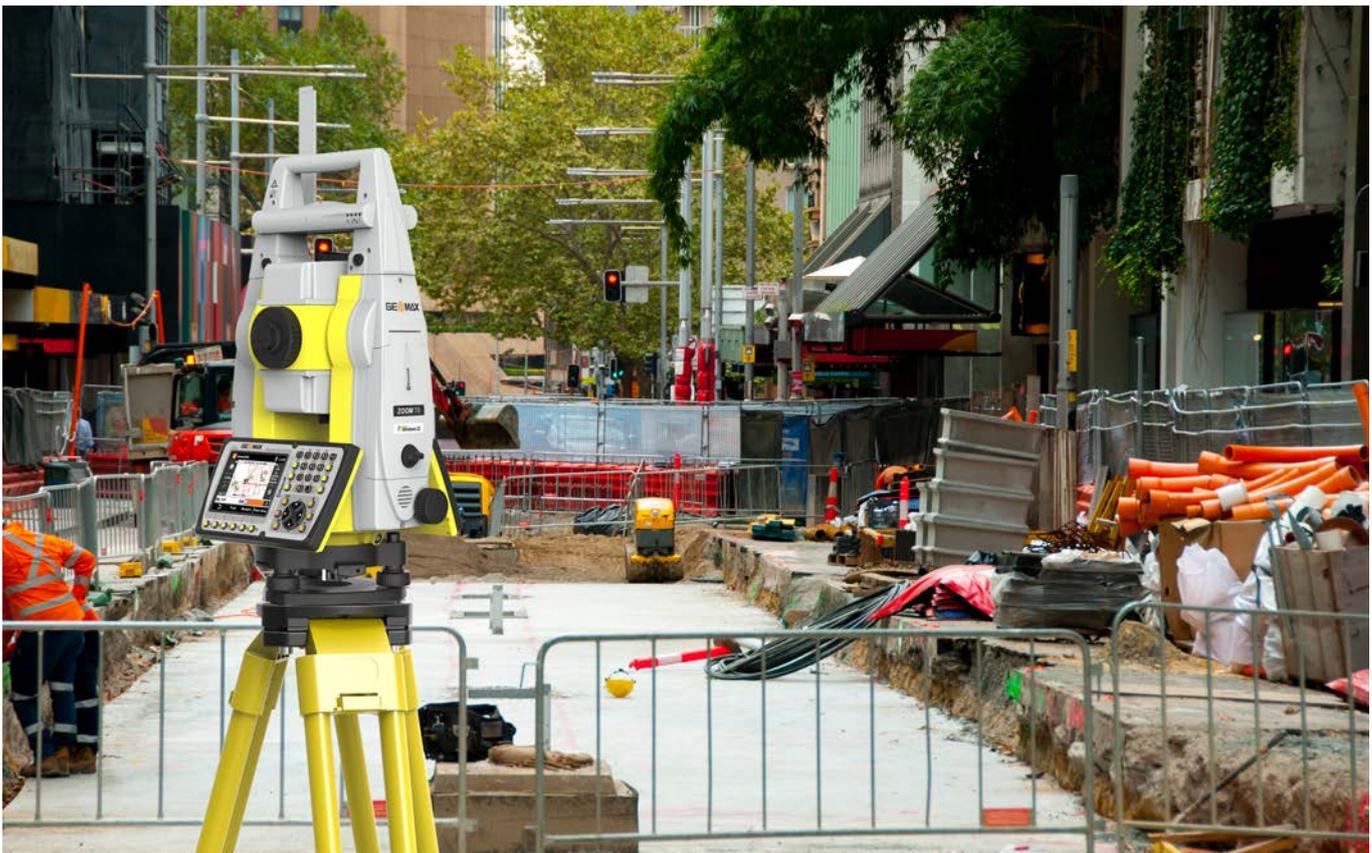
X-PAD ULTIMATE is the dedicated GeoMax field software and is available in two tailored versions:

- 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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