



With the GeoMax Zoom70 robotic total station, you can significantly increase your efficiency. X-PAD software supports GNSS prism search, which when merged with the proven,

powerful, accXXess EDM, with its Track and AiM technology, makes the Zoom70 a flexible and capable robotic total station for your daily tasks.





# 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 day long!

**TRack:** The Zoom70 shares tracking and aiming functionality with the Zoom90 robotic total station. TRack allows the Zoom70 to remain accurately aimed on fast moving targets, once the prism is locked.

**AiM:** Allows the Zoom70 to precisely aim 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 with 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.

X-PAD Fusion is flexible and versatile enough to fuse the data of GeoMax equipment, and also third party sources, such as drones, in one database -- eliminating time consuming data conversion and risks of data loss.



## **High performance**



### **X-MOTION™ HYBRID DRIVES**



The new Zoom70 incorporates X-motion hybrid drives, which are capable of following your target at 55 MPH at 350 feet (90 km/h at 100 m).

### **FULL CONNECTIVITY**







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 oneman 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

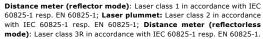
Telescope		
Magnification	30x	
Distance measure	ements - prism	
Range / accuracy / time	Standard mode: 11,500 ft (3500m)/1 mm + 1.5 ppm/ typ. 0.8 sec* Long mode: > 32,808 ft (>10,000m) / 5 mm+2 ppm / typ. 2.5 sec	

### **Distance measurements - reflectorless**

Range	accXess5 / accXXess10 500 m / 1000 m
Accuracy	2 mm + 2 ppm**
Time	Typ. 3 sec
Precise capture	.02 ft (8mm) x .06 ft (20mm) at 164 ft (50m)

Motorization	
Technology	Hybrid Drives
GeoTRAil - GNSS bas	ed prism search
Speed	45°/sec
TRack - Automatic pr	ism logging
Range	2625 ft (800m) at round prism
Max speed	55 MPH at 350 feet (90 km/h at 100 m)
AiM - Automatic prisr	n fine aiming
Range	3280.8 ft (1,000m) at round prism
Hz/V accuracy	1"
Technique	Image processing







### NavLight ™ - Alignment aid

Range	16 ft (5m) to 500 ft (150m)
Accuracy	2 in (5cm) at 330 ft (100m)
Interface	
Keyboard	Full alphanumeric; 35 keys; illuminated (2nd optional)
Display	Full VGA 640 x 480 color and touch with LED backlight
Data recording	1 GB internal memory; removable SD card and USB stick
Ports	Serial; USB; internal Bluetooth <sup>®</sup> ; long-range Bluetooth <sup>®</sup> handle and external power
Operating system	Microsoft <sup>®</sup> Windows <sup>®</sup> CE 6.0

### **Physical specifications**

7	
11lbs - 11.7 lbs (5-5.3 kg) w/o battery and tribrach	
-4°F to 122°F (-20°C to 50°C) / -40°F to 158°F (-40°C to 70°C)	
IP55 dust and waterproof rating	
95%, non-condensing	

### **Power supply**

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

### **Plummet**

Туре	Laser point, adjustable brightness
Accuracy	.005 ft (1.5mm) at 4.92ft (1.5m) instrument height

<sup>\*</sup> Fast mode; \*\* > 500 m: 4 mm + 2 ppm; \*\*\* Single measurement every 30 second at 77° F (25C). Battery time may be shorter depending on conditions.





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