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

Distance measurements - 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 based prism search	
Speed	45°/sec
TRack - Automatic prism logging	
Range	2625 ft (800m) at round prism
Max speed	55 MPH at 350 feet (90 km/h at 100 m)
AiM - Automatic prism fine aiming	
Range	3280.8 ft (1,000m) at round prism
Hz/V accuracy	1″
Technique	Image processing

LASER 2 / CAUTION LASER 3R

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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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®; long-range Bluetooth® handle and external power
Operating system	Microsoft® Windows® CE 6.0

Physical specifications

Weight	11lbs - 11.7 lbs (5-5.3 kg) w/o battery and tribrach
Operating- / storage temperature	-4°F to 122°F (-20°C to 50°C) / -40°F to 158°F (-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	.005 ft (1.5mm) at 4.92ft (1.5m) instrument height

* 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.

CERTIFIED IQNet MANAGEMENT SYSTEM

Certified Management System SQS ISO 9001 / ISO 14001

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GEOMAX

Zoom70 Series

Robotic Total Station

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.

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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

hybrid drives XMOTION

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.

X-PAD GEOMAX FIELDGenius