

GeoMax Total Station Zoom80 Series



ZOOM80

Advanced Technology

The advanced positioning technology of AIM360, TRACK360 & SCOUT360 incorporated in Zoom80 provides you with the most efficient way to survey. With GeoMax technology of the highest standard, you can be sure it "works when you do".

STReAM360

SCOUT TRACK

AIM

SCOUT360

Scans the entire working area within seconds to quickly find you. All measurement work can therefore be performed as one-man by remote control.



Robotic Surveying

Imagine an instrument that provides you with a real flow of work in terms of efficiency, precision and comfort. There is no need for assistance, it is quick to set up and has many easy-to-use functions, simplifying the entire process even more.

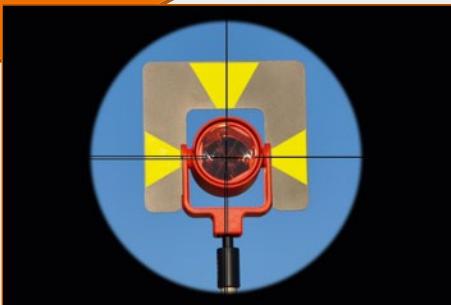
The GeoMax Zoom80R models provide everything you ever desired in your daily work. Wide angle search technology quickly locates the survey pole and once locked in, it continues to follow the prism as you move. Fully automatic measurements are executed by the press of a button on your remote controller.

Zoom80



TRACK360

Provides continuous tracking of targets. Once locked onto a prism, the instrument will remain precisely targeted onto the moving prism.



AIM360

The telescope is precisely aimed at any prism, without needing to look through the telescope. Measurements are performed automatically with constant and repeatable accuracy.



Works when you do

Many Additional Features

The Zoom80 contains many leading edge technologies that improve your efficiency. With long range accXess10 reflectorless EDM or the Zoom80C remote control, you minimise the time to complete any type of survey task.

NavLight

The NavLight fitted as standard in the telescope, is a practical alignment aid for speeding up staking-out work. The flashing red and yellow lights guide the rodman quickly and exactly into the line of sight.



accXess™ EDM Technology

GeoMax's accXess EDM Technology provides class-leading reflectorless measurements up to 1,000m. The extra small laser footprint and sophisticated signal processing technology, ensures you maximum accuracy regardless of the distance or conditions.

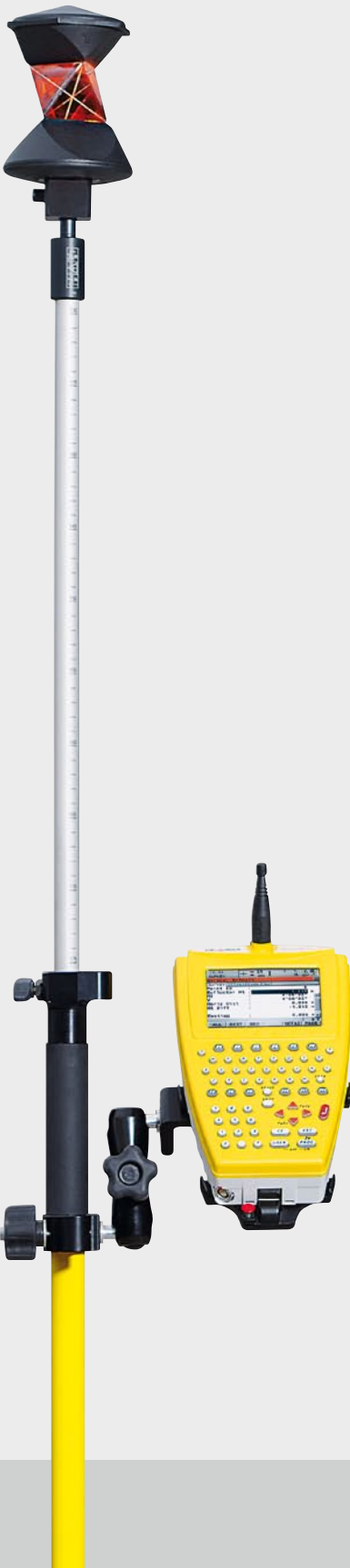


Laser Plummet

The laser plummet built into the Zoom80 total station delivers you accurate and easy centering every time. The bright laser beam is easily visible and eliminates time consuming procedures required with an optical plummet. You win at every set-up.



Zoom80



Zoom80C Controller

When operating by remote control, the functionality of the Zoom80 total station is even further enhanced. The controller provides one-man robotic surveying with complete control of all measurement tasks from the survey pole.

The display and software are the same as those on the total station. Therefore the Zoom80C controller lets you measure remotely as easy as directly on the instrument.

The controller, battery, radio modem and antenna form a single compact unit that can be conveniently attached to the survey pole. Together with a standard passive prism, provides a light-weight pole setup.

Xsite Onboard Software

The Zoom80 total station and Zoom80C controller are supplied with the powerful Xsite software. Data can be imported and exported in virtually any format to match your other software and equipment. The data can also be processed and adjusted using GeoMax Office software (GGO).

The same Xsite software runs on both the total station and controller. Therefore you can easily switch between using the instrument directly or by remote control, without needing to learn an additional software.

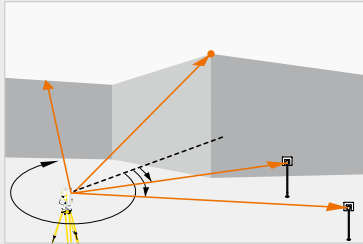


Works when you do

Powerful Xsite Software

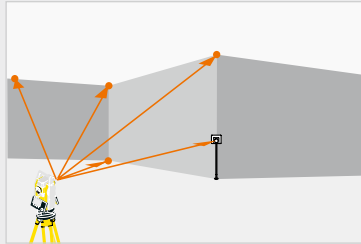
Xsite software, together with a complete range of applications, cover the requirements for all measurement tasks. From simple measuring to complex road stake-outs, you can be certain that GeoMax "works when you do".

Standard Applications



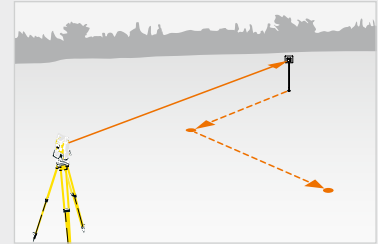
Setup

Quickly position and orientate your Zoom80 total station. Setup either on known coordinates or use resection to determine the position.



Survey

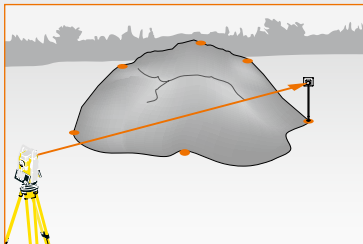
Allows you to collect data quickly and accurately. Flexible coding and display formats delivers data the way you want it.



Stake Out

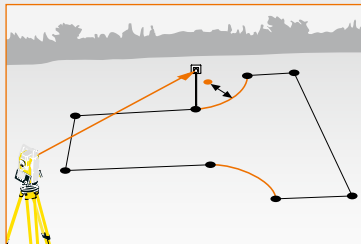
With accurate and easy-to-use graphic guidance you'll be quickly finished with one point and moving on to the next.

Optional Applications



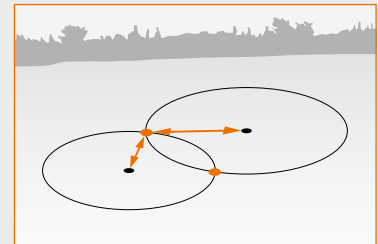
Volume

Measure any complex surface and immediately calculate the area, perimeter and volume in the field.



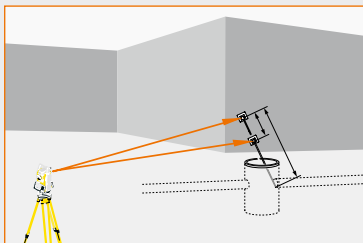
Reference Line

Regardless of whether you're staking or checking a reference line or arc you'll be amazed at the flexibility.



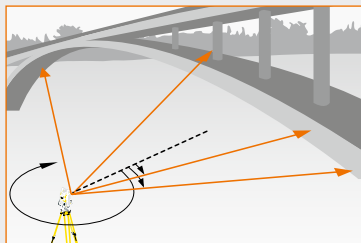
CoGo Routines

Easily determine points out in the field. CoGo lets you calculate inverse, traverse, intersections and area division in few easy steps.



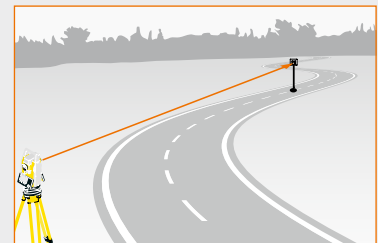
Hidden Point

Situations arise where you cannot measure a point directly. This app allows to measure at an offset and calculated the position of the hidden point.



Sets of Angles

A time saving application for repetitively measuring the same set of targets for any number of times.



Road

A comprehensive app for staking out and checking all types of alignments, from simple centerlines to the most complex designs.

Technical Data

Zoom80

GeoMax Zoom80S (Servo) 5", 2"	AIM360, TRACK360
GeoMax Zoom80R (Robotic) 5", 2"	AIM360, TRACK360, SCOUT360

Angle Measurements (Hz, V)

Accuracy (ISO 17123-3)	5" (1.5 mgon), 2" (0.6 mgon)
Method	Absolute, continuous, diametrical
Compensation	Quadruple axis
Display resolution	0.1" (0.1 mgon)

Distance Measurements

Prism (range, accuracy)	3,500 m (12,000 ft), 1 mm + 1.5 ppm
Prism, long-range (range, accuracy)	10,000 m (33,000 ft), 5 mm + 2 ppm
Non-prism (range, accuracy)	1,000 m (3,300 ft), 2 mm + 2 ppm
Laser dot size (non-prism)	7 mm x 10 mm at 30 m, 8 mm x 20 mm at 50 m

Motorisation

Rotating speed	45° (50 gon)/s
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AIM360

Range (round/360° prism)	1,000/800 m (3,300/2,600 ft)
Accuracy (ISO 17123-3)	1" (0.3 mgon)

TRACK360

Range (round/360° prism)	800/600 m (2,600/2,000 ft)
Speed	5 m/s at 20 m, 25 m/s at 100 m

SCOUT360 (Zoom80R)

Range	300 m (1,000 ft)
Typical search time	5 - 10 sec
Search area	Default Hz: 360°, V: 36°, definable search window

NavLight

Working range	5 - 150 m (15 to 500 ft)
Positioning accuracy	5 cm at 100 m (2" at 330 ft)

Keyboard and Display

Display	¼ VGA colour LCD, touch screen
Keyboard	34 keys including 12 function keys, illumination

Data Storage and Interface

Memory/storage	Removable CompactFlash card
Interface	Bluetooth® wireless technology, RS232, ZRT80 radio modem

Weight and Environmental Conditions

Weight	5.5 kg (total station fully equipped)
Operating temperature	-20° to +50°C (-4° to +122°F)
Protection against water and dust	IP54, 95% non-condensing

Power Management

Battery	Removable Li-Ion 7.4V, 4.4 Ah
Operating time	8 h

Distance meter (Prism): 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):** Laser class 3R in accordance with IEC 60825-1 resp. EN 60825-1

GeoMax Zoom80C	Windows CE Controller
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Keyboard and Display

Display	¼ VGA color LCD, touch screen
Keyboard	62 keys including 12 function keys, illumination

Data Storage and Interface

Memory/storage	Removable CompactFlash card
Interface	Integrated 2.4 GHz radio modem, Bluetooth®, RS232

Weight and Environmental Conditions

Weight	0.8 kg (2.7 kg with pole and prism)
Operating temperature	-30° to +65°C (-22° to +149°F)
Protection against water and dust	IP67, dusttight, waterproof 1 m temporary immersion

Power Management

Battery	Removable Li-Ion 7.4V, 2.2 Ah
Operating time	9 h

GeoMax

About Us

GeoMax is an international company developing, manufacturing and distributing quality construction and surveying instruments. Both occasional and professional users are addressed with GeoMax's easy-to-use, yet highly productive, range of Total Stations, GPS, Lasers, optical and digital levels.

We are part of the Swedish Hexagon Group, the world leader in multidimensional measurements within the macro and micro segments of the measurement and positioning market. The global technology is supported by a comprehensive sales and service net-

work covering all continents with over 100 branches. Through a continually growing distribution and service network GeoMax products are available worldwide delivering outstanding price-to-performance.

The close cooperation within the Hexagon Group grants GeoMax's access to state of the art development and production facilities. This enables us to focus on delivering products that "work when you do" by providing the functionality you need without burdening yourself with overloaded features.



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