

# Robotic Total Station Zoom90 Series



## FULLY AUTOMATIC

- Long range Bluetooth®
- X-MOTION hybrid™ drives
- Ultimate one-man system



## OPEN WINDOWS CE

- Field software flexibility
- Complete Windows CE functionality
- Full VGA capability



## OUTSTANDING PERFORMANCE

- STReAm360: Scout-TRack-AiM
- 1000 m reflectorless
- Precise capture

# ULTIMATE TECHNOLOGY, ULTIMATE PERFORMANCE

Dramatically minimise the time of any survey task and boost your performance and accuracy to the maximum. Zoom90 is the ultimate one-man system with up to 20% more automation performance, extended reflectorless measurement capability, STReAM360, accXess technologies and Windows CE open connectivity.

Because a perfect solution is more than its single components, the Zoom90 seamless integration makes it the ultimate solution.



 **STReAM360**

## STReAM360: FULLY ROBOTIC

**Scout:** Scans the entire working area within seconds to quickly find the target.

**TRack:** Continuously track targets. Once locked onto, the instrument remains accurately aimed on the moving target.

**AiM:** Aims accurately at any prism, without needing to look through the telescope. Measurements are performed automatically with consistently high and repeatable dependability.



 **hybrid drives**  
**XMOTION**

## X-MOTION™ HYBRID DRIVES

Zoom90 incorporates highly innovative X-motion hybrid drives, promoting automation performance compared to conventional drives.

It will follow your target at 90 km/h at 100 m distance.



## accXess™ EDM TECHNOLOGY

GeoMax's accXess EDM Technology provides leading reflectorless measurements up to 1000 m. The extra small laser footprint and the sophisticated signal-processing technology, ensure you accuracy - regardless of the distance or conditions.





## NavLight™

Fitted as standard in the telescope, the NavLight is an efficient alignment aid, helping to speed up work while setting out. Its flashing red and yellow lights will guide you quickly and exactly to the line of sight.



## FULL CONNECTIVITY

Zoom90 meets all your connectivity needs. Use its built-in Bluetooth® for medium range data transfer or its Bluetooth® handle for high performance long range Bluetooth®. Either way, it is ideal for one-man robotic surveys. Store data on Zoom90's extra large internal memory, on the removable SD card or the USB stick using plug and play technology.



## ROBUSTNESS

GeoMax instruments are built to withstand the toughest conditions. The Zoom90 has been designed and tested to be dust-proof and fully protected against water jets.



## OPEN CONNECTIVITY

Combine your preferred software and datalogger to perform remote control tasks with increased productivity. Zoom90 uses the Windows CE operating system, which enables a variety of powerful field software to be run, offering you freedom to choose software that best suits your needs. Full VGA colour-touch display will also provide you with superior performance and full graphic capability.



**MicroSurvey®**

**Carlson.**

**X-PAD**

# Zoom90 Series

With the one man fully robotic total stations and the one man Servo total stations, GeoMax Zoom90 Series fulfill all your needs.

	Scout	TRack	AiM	accXess 10	accXess S
GeoMax Zoom90 Robotic (R)	✓	✓	✓	✓	✓
GeoMax Zoom90 Servo (S)		✓	✓	✓	✓

## 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	Standard mode:
Accuracy	3500 m / 1 mm + 1.5 ppm / typ. 0.8 sec*
Time	Long mode:
	>10,000 m / 5 mm+2 ppm / typ. 2.5 sec

## DISTANCE MEASUREMENTS - REFLECTORLESS

Range	accXess5/ accXess10 500 m / 1000 m
Accuracy	2 mm + 2 ppm**
Time	typ. 3 sec
Precise capture	8x20 mm at 50 m

## MOTORIZATION

Technology	Hybrid Drives
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### Scout

Range	300 m at round prism
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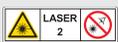
### TRack

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

### AiM

Range	1000 m at round prism
H <sub>z</sub> /V accuracy	1"
Technique	Image processing

\* 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.

## NavLight™

Range	5 m at 150 m
Accuracy	5 cm at 150 m

## INTERFACE

Keyboard	Two 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



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Our comprehensive product portfolio includes easy-to-use and highly productive total stations, GPS/GNSS, laser scanners, dataloggers, field software, optical and digital levels, lasers, machine guidance and cable location systems and a large offer of accessories, all at the best-price-to-performance ratio.

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