



Works when you do

## Zoom75 Series

Robotic Total Station



### Modern data handling

- Large 5" VGA touch screen
- Powerful processor - easy & fast handling of big files
- Automatic data backup
- GeoTRail prism search

### Maximum flexibility

- Field software: Carlson SurvCE|PC
- Field controllers: Carlson's or your own device

### Smart Investment

- No maintenance cost for field software
- Latest Carlson technology
- Stress-free equipment: PIN/PUK – anti-theft feature

# Zoom75 Series

The solution to digitize your site

## Zoom75 is the right solution to digitize your site

The Zoom75 solution was developed to meet the demands of both novice and experienced surveyors. You have the choice to use two people and the onboard software, or a single surveyor with a field controller of your choice. Both guarantee fast and convenient work with CAD data. The instrument's big screen, optional long-range Bluetooth handle and high performing processor add to the easy, intuitive workflow of Carlson's software.

### ANGLE MEASUREMENTS

Accuracy	1" (0.3 mgon), 2" (0.6 mgon), 3" (1.0 mgon), 5" (1.5mgon)
Display resolution	0.1" (0.1 mgon)
Method	Absolute, continuous, diametrical
Compensation	Quadruple axis

### TELESCOPE

Magnification	30x
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### DISTANCE MEASUREMENTS TO STD. PRISM ACCURACY/TIME (TYPICAL)

Single (fast)	2 mm + 1.5 ppm / 0.8s
Standard	1 mm + 1.5 ppm / 2.4s
Continuous	3 mm + 1.5 ppm / < 0.15s
Range	up to 3500m

### DISTANCE MEASUREMENTS - REFLECTORLESS

Range	accXess5 / accXXess10 500 m / 1000 m
Accuracy	2 mm + 2 ppm*
Time	Typ. 2-6 sec
Precise capture	8x20 mm at 50 m

### INTERFACE

Keyboard	Full alphanumeric; 25 keys; illuminated (2nd optional)
Display	5" WVGA 800x480 colour and touch with LED backlight
Data recording	2 GB internal memory; removable SD card and USB stick
Ports	Serial; USB; internal Bluetooth®; long-range Bluetooth handle External power and WLAN
Operating system	Microsoft® Windows® EC 7.0

### MOTORISATION

Technology	Hybrid Drives
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#### GeoTRAIL - GNSS based prism search

Speed	100 g/sec
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#### TRack - Automatic prism logging

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

#### 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

### 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

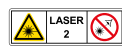
Internal battery	Removable Li-Ion 4.4 Ah / 7.4 V
Operating time	Up to 8 h **

### PLUMMET

Type	Laser point, adjustable brightness
Accuracy	1.5 mm at 1.5 m instrument height

\* > 500 m: 4 mm + 2 ppm;

\*\* Battery time may be shorter depending on conditions.



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



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IMPROVED CONSTRUCTION METHODS 877-494-5793