

Zoom45 Series

The manual total station for surveying and layout tasks



Large display for productive work

The Zoom45's 5-inch touchscreen display is optimal for working with graphics in X-PAD on construction sites and across environmental conditions.

Part of the GeoMax ecosystem

The Zoom45 with Android operating system easily connects to software and devices across the GeoMax ecosystem, including X-PAD Ultimate field software.

All-in-one manual total station

The Zoom45 offers accuracy, rapid point measurements and a digital workflow, enhancing the value for your investment.



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Zoom45 Product Page



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Zoom45 Series

Intuitive operation for surveying and layout tasks

The Zoom45 is the go-to manual total station for construction surveyors and operator crews, combining rapid point measurements, durability, and straightforward operation. An ideal companion for the construction site, the Zoom45 runs X-PAD Ultimate field software with a large screen for graphical views, enabling fast measurements and layout using the instrument alone or paired with a field controller. Additionally, easily exchange data with the office via X-PAD 365 and continue working in the same software ecosystem, bringing an efficient digital dataflow to your work with manual total stations.

ANGLE MEASUREMENTS

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

TILT

Compensation	Dual axis
Compensation range	± 8'

DISTANCE MEASUREMENTS (PRISM)

Range	5000 m
Accuracy	2 mm + 2 ppm
Time (Fast/Standard)	1.1 sec / 1.4 sec

DISTANCE MEASUREMENTS (NON-PRISM)

Range	500 m
Accuracy	3 mm + 2 ppm*
Time (Fast/Standard)	1.1 sec / 1.3 sec

TELESCOPE

Magnification	28x
Field of View	1°30'
Reticle Illumination	Yes, adjustable brightness
Laser Pointer	Laser dot size 12 x 24 mm @ 50 m

PHYSICAL SPECIFICATIONS

Weight	5.1 kg (w/o battery and tribrach)
Operating- / storage temperature	-20° C to 50° C / -30° C to 55° C
Protection class	IP55 dust and waterproof rating
Humidity	95%, non-condensing

POWER SUPPLY

Internal battery	Removable Li-Ion 6.4 Ah / 7.4 V
Operating time	Up to 8 h **

INTERFACE

Keyboard	Full numeric; 18 keys; including 10 function keys; Face I standard, face II optional
Display	5" WVGA 800 x 480 pixel, colour and touch with LED backlight
Ports	USB mini, USB host, Bluetooth and WLAN

SYSTEM AND DATA

Operating System	Android 11
Memory (RAM)	4 GB
Internal memory	32 GB / 16 GB for user data
Data Transfer	USB device, Bluetooth, WLAN

LASER PLUMMET

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

* > 200 m: 5 mm + 3 ppm

** operating time depends on configuration (display illumination, active radios, distance measurement sequence) and conditions (temperature, age of battery)



Distance meter (Prism Mode): Laser class 1 in accordance with IEC 60825-1 resp. EN 60825-1;

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

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