

X-PAD Office Fusion & 3D Laser Scanners

RTC360 LT

TIME FOR FUSION,
Multiple sensors, One platform



Scan to find out more about our
**X-PAD Office Fusion
Software**



geomax-positioning.com

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SOFTWARE MODULES

X-PAD Office Fusion is a software solution that offers you different modules in one platform, presented in a simple and intuitive way.

X-SCAN NEXT: THE POINT CLOUDS MODULE

X-SCAN Next module allows for seamless handling of point cloud data, delivering excellent results even with complex and large project deliverables. It offers improved processing time, visualisation, and registration tools, enhancing efficiency and accuracy. X-SCAN Next contains an auto-alignment feature that works for both target-based and targetless applications.

X-PHOTO: THE IMAGE PROCESSING MODULE

The image processing modules enable you to process images and generate point clouds and 3D surfaces quickly and accurately. For complex projects, you can process both aerial and terrestrial photos simultaneously, and in a single step, to achieve the best results, in the highest quality. The results are fully integrated into the X-PAD Office Fusion main applications, letting you create final drawings, maps and surfaces.

BIM CONNECT MODULE

Load and manage IFC files, extract elements for stake-out, and check as-built data with field measurements in the most efficient way.

X-TOPO: THE TOPOGRAPHIC MODULE

The X-TOPO module allows you to import measurements from your instruments and have full control of all the information to verify, at any time, the quality of your work. It calculates and solves all types of surveys, GNSS, total station, digital level and mixed with the least squared algorithms for precise calculation. From topographic points or point clouds, it is possible to create 3D models, contour lines, calculate cross-sections and volumes using several methods. Powerful tools and options allow you to customise the final drawings to obtain the best results possible for your customers.



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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

GEOMAX

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MINIMUM HARDWARE REQUIREMENTS

Design & Physical

Housing	Aluminium frame and sidecovers
Dimensions	120x240x230 mm / 4.7"x9.4"x9.1"
Weight	5.2 kg / 11.5 lbs, nominal (without batteries)
Mounting mechanism	Quick mounting on 5/8" stub on lightweight tripod / optional tribrach adapter / survey tribrach adapter available

Operation

On scanner	Touch-screen control with finger touch, full color WVGA graphic display 480x800 pixels
Wireless	Integrated wireless LAN (802.11 b/g/n)

Power

Internal battery	2 x Leica GEB364 internal, rechargeable Li-Ion batteries. Duration: Typically up to 4 hours Weight: 340 g per battery
External	Leica GEV282 AC adapter

Scanning

Distance measurement	High-speed, high dynamic time of flight enhanced by Waveform Digitizing (WFD) technology
Laser class	1 (in accordance with IEC 60825-1:2014), 1550 nm (invisible)
Field of view	360° (horizontal) / 300° (vertical)
Range	Min. 0.5 - up to 130 m
Speed	Up to 1,000,000 pts/sec
Resolution	3 user selectable settings (3/6/12 mm @ 10 m)
Accuracy*	Angular accuracy 18" Range accuracy 1.0 mm + 10 ppm 3D point accuracy 1.9 mm @ 10 m 2.9 mm @ 20 m 5.3 mm @ 40 m
Range noise*	0.4 mm @ 10 m, 0.5 mm @ 20 m

Imaging

Camera	36 MP 3-camera system captures 432 MPx raw data for calibrated 360°x300° spherical image
Speed	1 minute for full spherical HDR image at any light condition
HDR	Automatic, 5 brackets

Performance

Data acquisition	<3 mins for complete full dome scan and spherical HDR image at 6 mm @ 10m resolution
Double scan Check & Adjust	Automatic removal of moving objects Field procedure for targetless checking of angular parameters

Environmental

Operating temperature	-5° to +40°C
Storage temperature	-40° to +70°C
Operating low temperatures	-10° to +40°C
Dust/Humidity	Solid particle/liquid ingress protection IP54 (IEC 60529)

Compatibility X-Scan Next and Leica Geosystems Laser Scanners

The laser scanners from Leica Geosystems (BLK360, RTC360, BLK2GO) and third parties have a direct integration with X-Scan Next.

Third-party laser scanner data can be imported using a compatible format.