

Topcon GTL-1200

Real-Time Reality Capture Solution



Scanning Robotic Total Station
Construction Verification Every Day

Learn more at topconpositioning.com

 **TOPCON**

Construction Verification Every Day

“With this new instrument, one person can cut the time of a conventional topo in half and we no longer have to do the extra day of time and labor for that floor flatness and floor levelness report. That translates to a savings of around 60% in labor costs per pour.”

— Edgar Valenzuela, TAS Concrete engineer

- » Quick layout and scanning with a single instrument
- » Wi-Fi enables point clouds to be transmitted wirelessly
- » Proven robotic total station design, integrated with a scanner
- » Full dome scan in seconds
- » Scan density tailored to minimize software processing time
- » Point clouds accurately matched to BIM model coordinates



Point Cloud Processing

Collage Office, Collage Web and Collage Site

Collect, process, and analyze point cloud data from the GTL-1200.

- Effortless point cloud registration process
- Web-based sharing of point clouds and meshes
- Faster processing with true GPU utilization
- Integration with construction verification workflows
- Visualize scan data directly from a computer tablet



Construction Verification

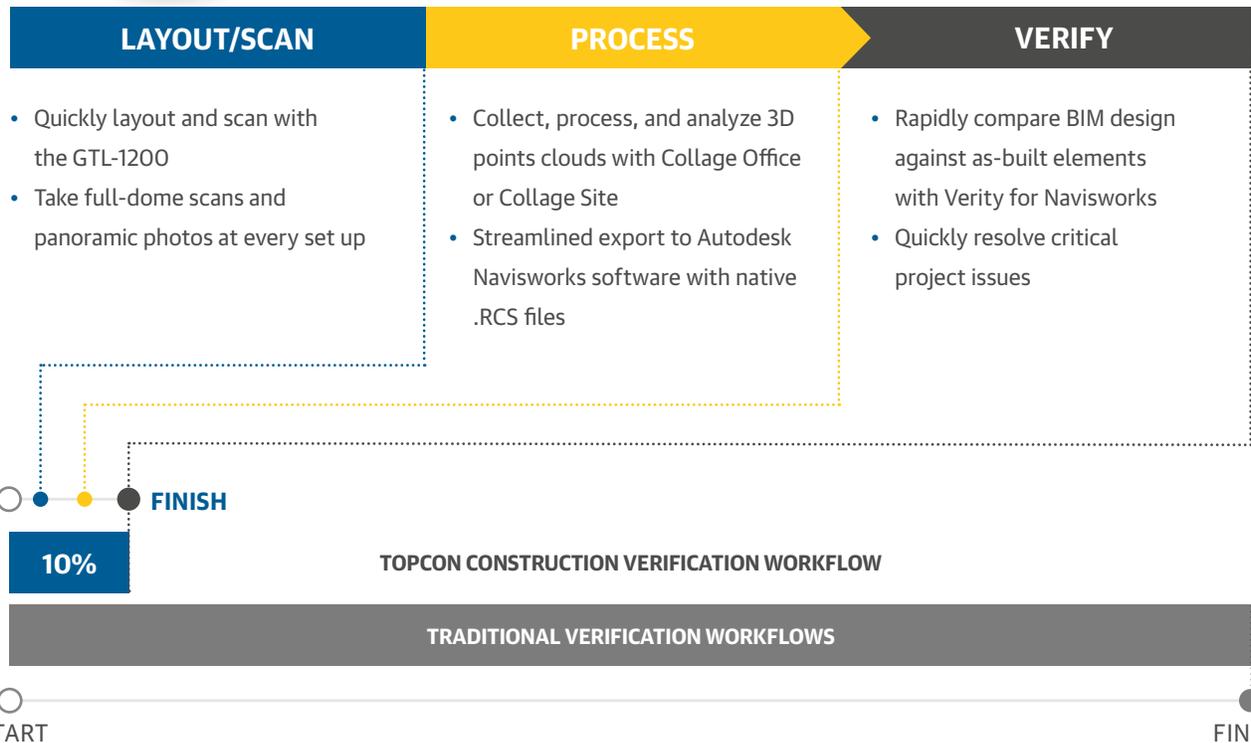
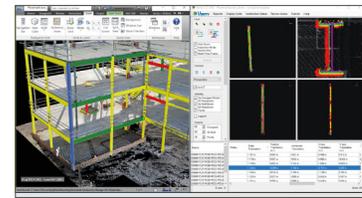
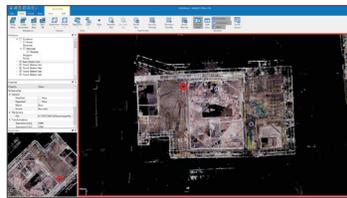
ClearEdge3D Verity for Navisworks®

Verify construction quality in a fraction of the time by comparing as-built scans to BIM design and fabrication models.

- Reduce risks to budgets and schedules
- Clear indication of whether as-builts are within tolerance
- Increase project profitability by avoiding rework
- Fully integrated with Autodesk® Navisworks
- Quickly update coordination model to as-built conditions

Simplified Construction Verification Workflows

Our scanning solutions help you work more productively, more efficiently, and keep teams better informed. Together with ClearEdge3D Verity, the simplified verification workflows cover a range of applications, including documenting job site as-built conditions and performing construction verification to ensure project accuracy is built 100% to plan.





Increase Productivity and Reduce Costs

Current construction industry estimates show rework and delays bring about 20% higher costs versus budget. Traditional spot checking of completed work leaves verification gaps that result in significant cost overruns and lost profits.

The Topcon real-time construction verification workflow:

- Offers complete scan versus BIM construction verification that's 10 times faster than traditional methods
- Transforms spot checking to a digital real-time reality capture solution to layout, scan, and verify every day
- Provides digital reports with visual heat maps combined with numerical offset data for as-built confirmation

Applications include:



Mechanical / Plumbing



Structural Steel



Structural Concrete



Plant / Equipment Installation



Layout



Prefabricated / Modular

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