

Specifications

Laser Type	Pulse type	
Measurement Range	1.5m-620m (90% reflectivity)	
Ranging Accuracy	5mm@100m	
Max Speed	Up to 1.2 MPts/sec	
Angle Accuracy	0.001° (H) /0.001° (V)	
FOV	300°(V)/360°(H)	
Laser Class	Class I (Eye safe)	
Laser Wavelength	1550nm	
Laser Beam Divergence	0.3mrad	
Data Exchange	USB3.0,Buleetooth,WLAN	
Data Storage	256GB(USB-A Pen drive)	
Built-in Camera	12.30MP*2	
User Interface	5"inch touch screen HD(720*1280)	
Sensors	Compensator	dual axis,±10°
	Barometer	Support
	IMU	Support
	Magnetism	Support
GNSS	Built-in GPS (L1) & Beidou (B1) , externally expandable	
Power Supply	Smart lithium-ion battery,28.8V 3400mAh 97.92Wh *2Pcs	
Power Consumption	25W	
Working Time	Up to 8h	
Operating Temperature	-20℃~+60℃	
Storage Temperature	-35℃~+70℃	
Humidity	Non Condensation	
Protection Class	IP54	
Weight	6.0kg (battery excluded)	
Dimensions	247*107*202mm	

One Scanner, Endless Possibilities

Meet the Meridian TLS600 terrestrial laser scanner—independently developed, sensor-packed, compact, and light. It's your go-to tool, ready to excel in any scenario, effortlessly.



Ancient Architecture

The TLS600 grabs high-quality point cloud data. With its built-in HD camera, every tiny detail of ancient buildings is brought back to life, precisely.



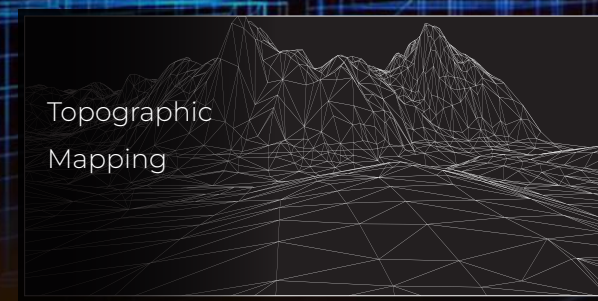
Building Facade

The TLS600 speeds through building facade scanning. After CloudX preprocesses point clouds, it connects directly to architectural software. Plans, elevations, sections, models—done seamlessly.



Tunnel & Underground

Compact and integrated, the TLS600 adapts to any tough environment. It collects spatial info fast, wherever your work takes you.



Topographic Mapping

The TLS600 masters large-scale topographic mapping. It handles big terrain surveys easily, with multi-target detection delivering real terrain and landform data. A must-have for geospatial work.

TLS600

Terrestrial Laser Scanner



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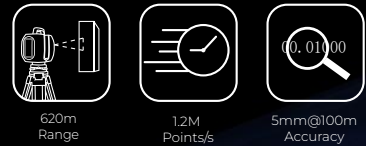
www.meridiangnss.com



One-Man Operation Design



Long-Range, Precise & Efficient



Multi-Sensor, Highly Integrated



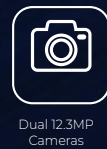
Compact & Portable, One-Hand Operable



User-friendly Operation



True Color, Instant Restoration



Field to office software



CloudX Post-processing software



CloudX transforms point cloud post-processing into intuitive power—seamlessly handling denoising, registration, and rendering, while supporting import/export of multiple point cloud formats. It integrates MMS (Mobile Mapping System) trajectory solution and point cloud fusion, paired with independently developed high-precision integrated navigation algorithms. Guided processing workflows and one-click point cloud coloring streamline your workflow, turning complexity into simplicity. When paired with South's proprietary hardware, CloudX makes 3D laser data processing faster, smarter, and more efficient than ever before.



Universal Data I/O



Compatible with multiple formats including *.las, *.ply, *.pcd etc. for rapid import and export.

Automate Workflow



Seamlessly import data, register and stitch point clouds, reduce noise, view panoramas, navigate and annotate point clouds, publish results, and encrypt data—all in one intuitive platform. Designed to adapt to your workflow, CloudX simplifies complex processing tasks, making 3D laser data management faster, more versatile, and effortlessly efficient.

Global Geo-referencing Ready



Effortlessly manage and convert geographic datums for high-precision outputs.