

XP-RS LiDAR Survey Services

EXPERTS IN REMOTE SENSING FOR ELECTRIC TRANSMISSION



The wide-ranging expertise of XP-RS covers some of the premier software tools used in the electric transmission industry:

MicroStation
AutoCAD
PLS-CADD
TL-Pro



Introduction

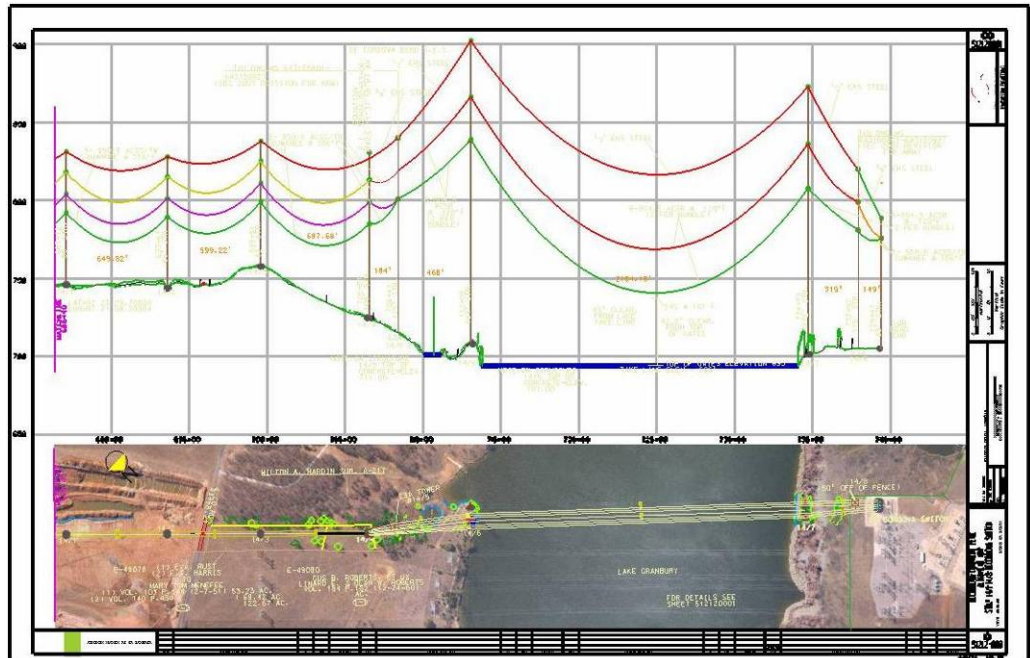
XP-RS is a company that focuses on providing specialized geospatial data and engineering services to the electric utility industry. Geospatial data and products are invaluable tools in the effective design & management of transmission infrastructure. XP-RS specializes in providing custom mapping and data solutions for the design, construction and upgrade of electric transmission lines. Whether you require a comprehensive PLS-CADD model for analysis of an existing line or a comprehensive survey new line design project, XP-RS is able to help. Regardless of project size our goal is to tailor our services to meet your needs.

Industry Experience

The US-based aerial survey project team established by XP-RS has significant experience in the collection and processing of geo-referenced data that is to be used for transmission line design. Our key individuals and data processors have thousands of miles of project experience and industry-specific degrees that include Civil Engineering, Surveying and Remote Sensing. We understand your engineering needs.

Appropriate Technology

XP-RS believes that each LiDAR survey project should be approached according to the end-user's needs. Our engineers and technicians are committed to optimizing the potential of Airborne Laser Scanning for each and every project. While helicopters usually provide the most flexible acquisition platform, XP-RS can also offer fixed-wing acquisition using the same LiDAR sensor technology.





Assured Accuracy

All projects are planned to meet or exceed the client's need for spatial accuracy. Our data collection methods provide for rigorous ground-based field verification which is undertaken by our field crews. This accuracy audit is delivered as part of the end product. Typically, LiDAR surveys have a spatial accuracy of 0.5ft in X, Y & Z. Depending on the project, this specification can be tightened or relaxed.

Deliverables

A typical LiDAR survey project for an existing line survey is a ready-to-design PLS-CADD model composed of the following deliverables:

- Filtered digital elevation model (DEM, DTM, TIN)
- Feature-coded topographical feature (point data)
- PLS-CADD structure models
- Digital color orthophotos – 300ft-2000ft wide in ECW format
- CAD plan showing topographic features in DXF and DWG/DGN formats
- High resolution photos of each transmission structure
- Forward looking digital video of the entire right of way
- Raster intensity maps (color or grayscale)

While most of the data created by XP-RS is targeted at PLS-CADD, other design packages such as TLCADD are also supported. XP-RS can also provide data suitable for GIS from its LiDAR data deliverables.

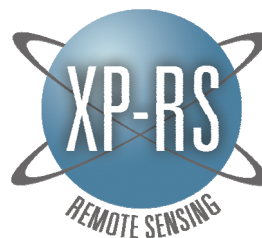
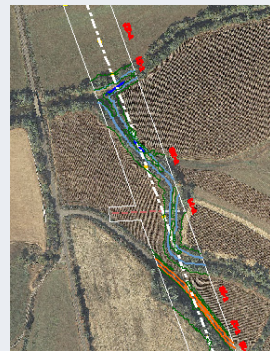


Geographic area

XP-RS provides services throughout the continental United States & Canada

Contact Us

To discuss your LiDAR Survey and/or geospatial data needs please contact us directly:



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