Riegl TLS Field Operation Manual and Workflow

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1. Field Set Up

2. Scanner Set Up

3. RiScan Pro – Pre-Scan Set Up

4. Scan Position Set Up

5. Collecting Data

6. Finding and Fine-Scanning Tie Points

7. Shutting Down and Moving Scanner

8. Scan Registration

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10. Tie Point Convergence Inspection (trouble shooting)

11. General Trouble Shooting in the Field

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This manual was developed by UNAVCO staff to document our best-practices for Riegl terrestrial laser scanner field operation, data collection, and initial data processing. This document is for a tie-point based workflow, using the Riegl VZ400 (but should also be largely applicable to the Z620 and VZ1000 scanners as well).

This document should be detailed enough to guide a user through the standard data collection workflow, and we recommend it as a resource for UNAVCO community members working with UNAVCO Riegl scanners.

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