PRODUCT OVERVIEW FOR ENGINEERING

Looq Platform

AI-Enabled Photogrammetric Hardware and Software

looq

The Looq Platform is hand-held capture from the ground.

This is your one-stop for creation, visualization, analysis, collaboration, and integration to digitize the built-world.

Work fast and get accurate results for topographic mapping and modeling of transmission & distribution assets.

Capture in Minutes

Make it easier and safer for your teams to gather data in less time and with fewer resources.

Process and Analyze

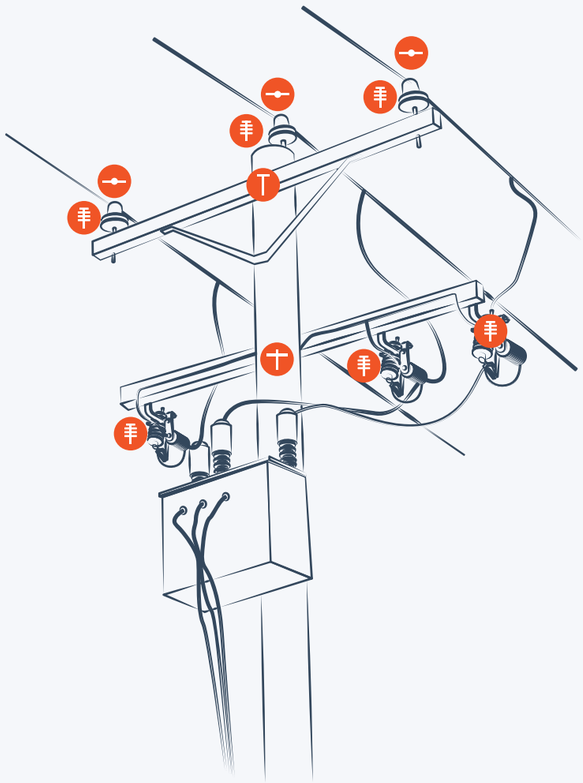
Automatically construct high-precision, georeferenced, intelligent 3D models and 2D composite images from the field data.

View, Inspect and Share

Collaborate and gather insights and deliver this actionable data for topographic mapping or T&D modeling.

The Looq Platform supports multiple engineering workflows across power distribution, telecommunications, construction, and oil and gas.

Use cases include bid walks and virtual site visits; base mapping and documentation of existing conditions for telecommunications sites, overhead power lines, substations, manholes, vaults, and oil and gas facilities; and delivery of structured, PLA-ready data for overhead utilities.



Easy & Fast Capture

Capture in less time and with fewer resources with a hand-held photogrammetry camera, the qCam.

Superior spatial resolution and rapid data processing.

Easy setup and data collection.

IP67 dust and water resistant

Survey-quality helical antenna

GNSS+IMU unit

Onboard CPU-GPU

20 MP

270x150° Field of View

Up to 100 MP/sec

LED Smart strobe

AI-enabled Processing

AI automatically constructs high-precision, georeferenced, intelligent 3D models and 2D composite images.

Integrates PPK GNSS corrections for precise geolocation. Auto base and upload base.

Segments and labels semantic and geometric features of critical assets.

Constructs high-accuracy 3D point clouds from images, not LiDAR.

GNSS accuracy 3-5 cm. Precision <1 cm.

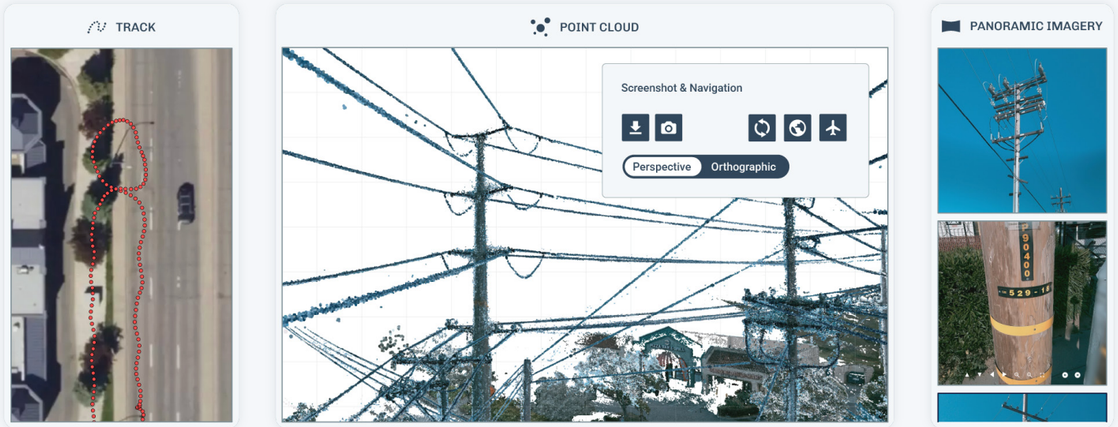
Experience the Looq Platform
looq.ai/experience-video

Web Viewing & Collaboration

View, analyze, clean-up, and hand-off data to support engineering and analysis workflows using the qApp.

Processed Outputs & Reporting

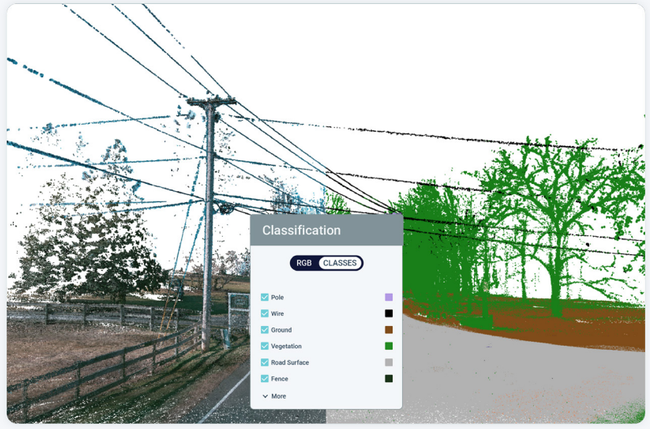
AI reconstructed outputs inlcude intelligent, high-resolution 2D datasets; panoramic and orthomosaic imagery; and 3D point clouds. And you can get a detailed PDF breakdown of your post-processing results, including solution type, estimated accuracies, and base stations used.



Data Classification

Validate and refine key pole data—attachment heights, distances, and angles—before exporting to pole load analysis (PLA) tools, ensuring accurate inputs and minimizing rework.

Classifying data across transmission, distribution, and substation infrastructure can help you transform visual captures into structured, actionable insights—enabling accurate design validation, asset management, compliance reporting, and advanced modeling. It lays the groundwork for automation, digital twins, and intelligent decision-making.

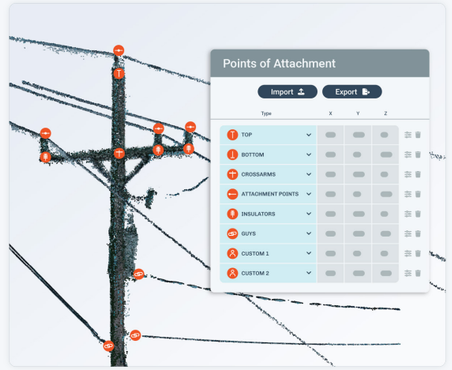


Preparing Data for Analysis & Design

Identify assets and provide additional attribute information such as location, clearances, measurements and elevations, and connection points.

Measurement

From the web environment, establish a network of precisely located points grounded in known surveyed coordinates, to ensure seamless alignment with existing CAD drawings, GIS datasets, and spatial models.



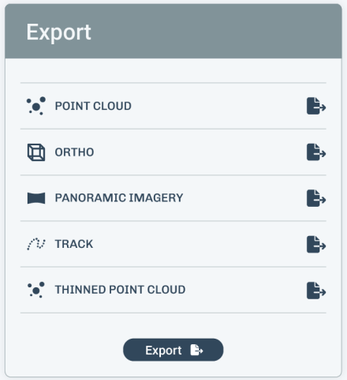
Points of Attachment

For efficient PLA, identify and organize all critical pole components—top and bottom elevations, cross arms, attachment points, insulators, guy wires, span lengths, clearances, and asset classifications—ensuring fast, structured export into PLA tools with minimal manual input.

Sharing Data

Deliver structured field data, refined from dense reality capture to ensure performance, usability, and compatibility with downstream workflows.

Export LAZ point clouds, orthophotos, panoramas, and capture tracks for AutoCAD Civil 3D, Autodesk ReCap, Trimble Business Center, TopoDOT, ESRI ArcGIS, and other surveying, engineering and geospatial tools.



Looq AI enables survey-grade 3D capture cost-effective at scale helping users safely and efficiently deliver spatial intelligence for the built world.

looq.ai

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