

AllyPad

Professional Surveying Software for Greater Efficiency



INTRODUCTION

AllyPad is a professional surveying software developed by AllyNav for its GNSS high-precision positioning products. Built on extensive real-world field experience and the strengths of RTK technology, AllyPad integrates high-accuracy position data collection, point and line staking, road design and construction staking, as well as CAD drawing import and layout into a single, unified platform. It is designed to meet the diverse requirements of the surveying and mapping industry.

With a clear interface and intuitive workflow, AllyPad is easy to learn and efficient to use—helping surveyors work more accurately and productively in the field.

ALLYPAD OVERVIEW

AllyPad’s main interface is organized into four clear modules: Project, Device, Survey, and Tools, with a structured layout and well-defined functions that allow users to quickly get started and efficiently complete field tasks.



Project

This module is used for project and system management. Users can create and manage projects, define or modify project coordinate systems and projection parameters, and access software information, language settings, and voice prompts. It also provides practical functions such as point calibration, base station shift, point management, and data import/export.



Device

This module is primarily used for RTK device connection and operating mode configuration. It supports rover, base station, and static survey modes, and allows users to view detailed instrument information, ensuring clear device status and reliable connectivity.



Survey

The core module of the software. It covers a wide range of surveying and stakeout operations, including Point Survey, Tilt Measurement, Point Stakeout, Line Stakeout, CAD Stakeout, and Stake Road, meeting the diverse requirements of engineering and construction projects.



Tools

This module provides a comprehensive set of field calculation utilities, including Coordinate Converter, Volume Calculation, Point & Line Calculation, Vector Calculation, Equal Point Calculation, and Average Calculation. These tools enable fast, reliable engineering computations directly in the field.

FEATURE



Point Survey

Used to collect 3D coordinate data of various topographic feature points and engineering control points in the field, such as building corners, utility poles, terrain break points, alignment points, and excavation boundary points. The collected data provides a reliable foundation for topographic mapping, engineering design, and subsequent staking operations.



Tilt Measurement

Designed for scenarios where conventional pole centering is not feasible. When target points are obstructed (e.g., the tops of utility poles or high walls), located in hazardous areas (such as excavation edges), or where a survey pole cannot be safely positioned, tilt measurement enables the safe and efficient capture of target point coordinates without direct centering.



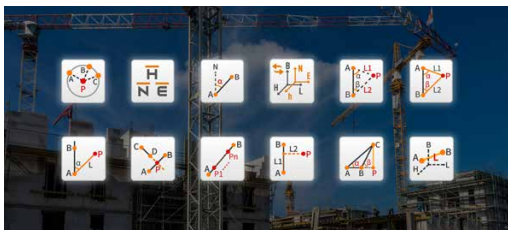
Point Stakeout

After importing known coordinate points—such as project alignment points, road edge points, and pile locations—into the software, surveyors are guided in real time by RTK devices to accurately locate and mark target points in the field, significantly improving staking efficiency and accuracy.



CAD Stakeout

Supports direct import of CAD design files (e.g., DXF, DWG) into AllyPad. The software interprets graphical elements such as points, lines, surfaces, arcs, and road-related features, enabling visual and intuitive field staking. This significantly enhances construction staking efficiency and positional accuracy.



Tools

Provides a comprehensive suite of built-in engineering calculation tools, including Coordinate Converter, Volume Calculation, Point & Line Calculation, Vector Calculation, Equal Point Calculation, and Average Calculation. These tools enable surveyors to perform fast and convenient auxiliary computations directly in the field.

APPLICATIONS



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