

RTK / GNSS - Germany

Technical brief / v1.0.0

UAV surveying: accept the delivered result

An accurate antenna position is not an accurate orthophoto by itself. Camera calibration, exposure timing, image geometry, control and independent checkpoints belong in the same test plan. Specify the output format, reference system and permitted checkpoint error first.

RTK, network RTK, PPK and GNSS/INS

RTK resolves carrier-phase ambiguities using timely reference data. Network RTK uses a reference-station network to model spatial errors; VRS, FKP and MAC are different delivery approaches requiring compatibility checks. PPK processes recorded rover and reference data after the mission: useful for offline results, but no substitute for navigation needed in real time.

A testable acceptance plan

Per-point horizontal error: $\sqrt{\Delta E^2 + \Delta N^2}$; vertical error: ΔH . $RMSE_H = \sqrt{\text{mean}(\Delta E^2 + \Delta N^2)}$, $RMSE_V = \sqrt{\text{mean}(\Delta H^2)}$. Also report bias, 95th percentile, maximum error, sample count and failures. CEP is a 50% radius; RMS, 1σ and 95% are not interchangeable without distribution and dimensional assumptions.

From requirement to accountable delivery

This area provides technical information, source references, a requirements checklist and storage of your request in the platform inbox. A contracting entity, named integrator and verified test report must be established before binding delivery promises.

<https://be-passive.com/sites/rtk/en/report>

<https://be-passive.com/sites/rtk/en#inquiry>