

Aerial Power Line Inspection (BUHO System)

The BUHO System is an aerial solution for the maintenance and statutory inspection of overhead power lines (medium- and high-voltage) involving the use of gyro-stabilised platforms and geolocation data and a range of other techniques including visual inspection (HD photo and video camera); thermographic inspection; ultraviolet inspection and LIDAR distance measurement and 3D modelling. This system is targeted at verifying the integrity of operational power lines through a combination of the above-mentioned inspection techniques. It is a fully customisable service that can be easily adapted to fit any client inspection plan. This service incorporates a review of existing inspection plans with a view to proposing new scopes and improvements.



THE Applus+ SOLUTION

The BUHO System enables us to make a rapid yet detailed analysis of transmission and distribution power lines and their fixtures, so we can meet our clients' needs while reducing costs. We perform all kinds of individual or combined inspections depending on our clients' needs.

We have our own post-processing laboratory which enables us to speed up the inspection process and thus offer a better response rate. We also have state-of-the-art stations to analyse and record possible anomalies. The types of inspections we carry out include visual inspections; thermographic inspections; ultraviolet inspections; and distance inspections using LiDAR. Applus+ professionals are known for being highly qualified and experienced who respond to the most demanding market requirements.

Target customers

This service is aimed at any companies operating high- and medium-voltage lines, specifically TSOs (transmission system operators) and TandD (transmission and distribution) power utilities.

Key customer benefits

The BUHO System offers the following advantages to clients:

- Full charting of inspections
- Reduced inspection times as compared with ground patrols
- Consistency of approach, with the same team carrying out the inspection in all areas of the electricity company
- Cost savings as a result of grouping several kinds of inspection in a single flight (thermographic, visual, LIDAR distances, UV, etc.)