



“Drone FM” – Aerial building inspection

Product description

This product offers the execution of the technical inspection of the building envelopes and objects by means of aerial imaging conducted by unmanned aerial vehicles (UAV).

A Inspection executed in the visible spectrum – by means of the RGB camera with a high resolution. The result of the inspection is the exposure of damaged or other defects of the individual construction parts of the envelopes of the objects (roofing, ledges, chimneys, windows, downpipes, attics, balconies, systems of conduction, lighting rods, installment of engineering infrastructure, thermal insulation or other areas which are difficult to access or large surfaces).

A Inspection conducted in the thermal spectrum – by means of the thermal camera. The result of the inspection is the exposure of the defects such as leaks, thermal leakage and so on) of the individual parts of the building envelopes and other construction parts (see above).

For whom this is targeted



All clients disposing of height objects, which are difficult to access



All clients who care about the property, the property's quality and development and display the obligation for the property maintenance, development and evaluation of the entrusted property



All clients who wish to reduce time and costs for the property maintenance and modernization

The client's benefits

- A significant time and cost saving destined for the property management and precaution in contrast to the conventional methods
- Highly effective approach – 100% coverage of the captured surface
- Increase in efficiency of the property management - appointing workers only for the critical parts that require intervention
- Pragmatic approach – this system requires neither a scaffolding construction nor a rental of height platforms
- Repetition and data compilation in time (archiving of flight trajectories)
- New perspective – data that would have been otherwise impossible to obtain or demand a disproportionate effort and price for their acquisition

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Product parameters

- Application variability – thermography, RGB imagery, 4K video, measurement (equipment – gas detector, distance measuring instrument)
- Variability of the outcomes of data processing (3D models, orthophoto digital maps, airspace calculations, quarries, landfills, mountainous land)
- High precision of the procured data (positional accuracy in cm)
- High data quality (20 MPx, resolution of the outcomes mm/pix)
- Active drawing documentation (surface and length assessments, layers and so forth)

What we need to know in order for us to provide the ideal offer for you

- Your needs, both short term and long term, the manner in which you wish to maintain your property
- Your vision about the final result, the time frame and the financial scale you wish to invest in
- Type of the object, the surrounding space and its location



Reference

National Heritage Institute

Czech Radio communications

PointPark Properties s.r.o.

- P3 Park Mstětice – roof control (leakages) Strix Chomutov a.s.

Strix Chomutov a.s.

Edulios – investment fund a.s.

- City West B1 – roller blinds inspection

Orea Hotels, s.r.o.

- Orea Resort Devět Skal – thermal imaging roof inspection



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