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Our fleet of advanced unmanned aircraft systems are equipped with 3-axis fully stabilised gimbals carrying professional digital cameras and sensors. Our XT2 radiometric thermal sensor can provide high resolution thermal imaging to visualise damage and stress areas.

Our RGB aerial cameras provide 20MP photos and 4K video, with our Matrice 210 V2 system offering a range of payloads including the 180x Zenmuse Z30 zoom.

Rigorous risk management, maintenance and safety controls are in place to ensure all our operations are carried out efficiently and safely.



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## ABOUT US



Shetland Flyer Aerial Media are UK CAA approved commercial UAS operators with an Operational Authorisation for UAS up to 25kg. We hold £10M public liability insurance and our experienced pilots are professional photographers, videographers and surveyors who hold international SUAS pilot certification.



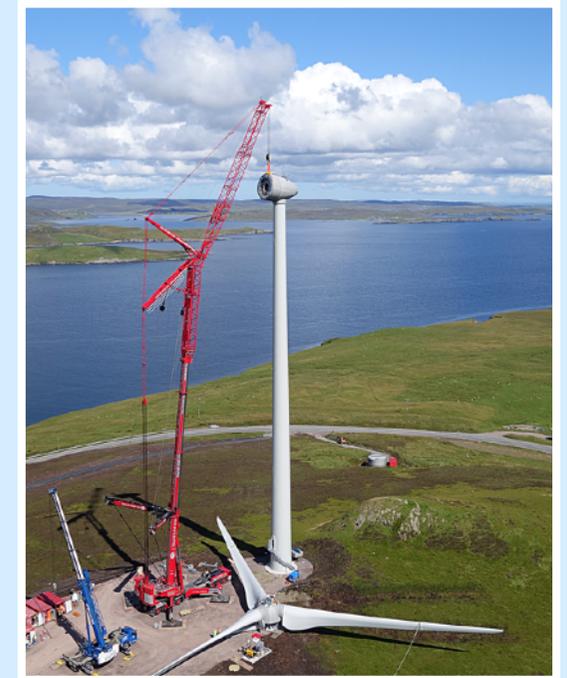
SHETLAND FLYER AERIAL MEDIA

11 Ronald Street | Lerwick | Shetland | ZE1 0BQ  
01595 747047 | 07788 990550  
www.shetland-flyer.media  
info@shetland-flyer.co.uk

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## SHETLAND FLYER AERIAL MEDIA

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**Services for wind farm  
developments:  
planning, construction,  
inspection and maintenance**

# WIND FARM SERVICES

We offer a range of specialist services for wind farm developments, from planning through construction to inspection and decommissioning. Services include mapping and terrain modelling, construction and environmental monitoring, and asset inspection including thermal imaging.



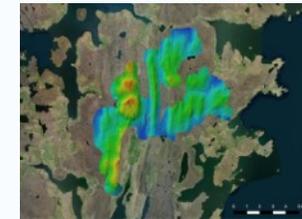
*Advanced unmanned aircraft technology with high quality cameras operated by experienced pilots*

Shetland Flyer Aerial Media offer a wide range of media, survey and inspection services for wind farm operators using professional cameras and fleet of advanced unmanned aircraft systems (UAS). Our mapping services use RTK or PPK positioning providing centimetre level accuracy even over extensive sites. All photogrammetry products are processed in-house using purpose built workstations, so your data is always safe and secure.

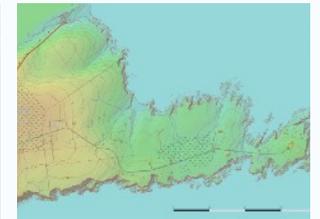
4K video and composite photos up to 100 megapixels are ideal for regular inspections of your turbine assets, with minimal downtime. Drone inspections are not only faster than traditional methods but also much safer, avoiding your maintenance personnel working at heights.

## MAPPING AND DIGITAL TERRAIN MODELLING

We provide highly accurate orthomosaic maps and digital surface models using our specialised RTK / PPK drones, ideal for planning, slope analysis and visualisation. We also offer 360° panoramic images at hub and tip height for line of site analysis. Scale 3D models can be imported into CAD and GIS applications for drafting and planning access roads and turbine locations.



*Accurate digital surface models over large areas*



*Full digitised linework and drafting service*

## CONSTRUCTION

During the construction phase we can provide high resolution imagery for recording the build process and environmental monitoring. We provide long-term time lapse cameras to record the build process over months, or even years. In remote areas where 4G infrastructure is not available our time lapse systems can record to their own storage and retrieved during maintenance.



*Installation monitoring*



*Video, stills and time lapse of wind farm construction*

## INSPECTION SERVICES

Our skilled drone pilots can provide high resolution video and photographic inspections of your turbines and associated infrastructure, locating potential stress areas and investigating damaged installations. Using thermal imaging sensors we can detect potential faults in turbine blades up to 150mm into the structure. Drone surveys are fast meaning less downtime of your assets.



*Video and photographic surveys of turbine structures and associated infrastructure*

