Mitigate Risk, Save Time and Cut Costs with
Viper Drones Inspection Service

Especially beneficial for infrastructure inspection in hard-to-reach locations, a drone (UAV) equipped with thermal imaging or optical gas imaging can quickly and safely locate problem spots or inefficiencies. High resolution images and video are collected quickly to gain valuable insight. Our Part 107 Certified pilots have the knowledge and expertise to conduct a thorough aerial and thermal inspection.

GAS & PIPELINE
Leak detection from a new perspective! Useful in Upstream Systems, Midstream Infrastructure and Downstream facilities, a drone or UAV equipped with thermal imaging or optical gas imaging can quickly and safely locate problem areas or leaks. Inspecting flare stacks and other assets while operating can help spot issues earlier.

Optical Gas Imaging (OGI) cameras detect gas from many different sources. FLIR Gas Imaging cameras detect and visualize harmful gases quickly and from a safe distance – without the need to interrupt plant production. Some common leaks are from:

- Flanges
- Valve stems
- Plugs and Caps
- Machinery
- Couplings
- Pump seals
- Holes
- Passing valves
- Drain covers
- Instrument Connections

BUILDING DIAGNOSTICS & ROOF SCANS
An infrared camera can reveal and find the sources of energy efficiencies, destructive water damage and structural issues. This greatly aids in making informed decisions about necessary repairs that can help save energy expense. Our pilots will deploy a drone equipped with a thermal imaging camera, and inspect a roof in minutes. UAV inspection also allows for quick re-inspection once repairs have been made, ensuring the problem has been corrected.

The DJI M210, one of several commercial UAV systems used for inspection
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UTILITIES
With applications for Power Generation, Transmission & Distribution – UAV inspection of power lines, substations, solar panel farms, wind farms and other critical infrastructure is faster and provides more accurate findings than with traditional methods. Easily find hot spots, damaged components and poor instrument connections.

AGRICULTURE
Farming relies on a host of plant and environmental data to maximize crop yields. Airborne cameras carry a powerful combination of infrared and visual cameras to create a view of crops that cannot be seen with the naked eye. This highlights differences between healthy and distressed plants and allows for rapid action where necessary.

CELL TOWERS
 Eliminate the need for dangerous manual inspection by inspecting at every angle. Stream footage to a central location to reduce on-site personnel requirements.

FIRST RESPONDERS
Drones are a phenomenal tool for saving lives and guiding critical decision-making. A UAV integrated with thermal imaging provides the ability to see through smoke, dust, light fog, and foliage – making the technology a powerful aid in Search and Rescue, Law Enforcement and Firefighting.

Enterprise Dealer: DJI  Certified Integrator: FLIR

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