



**Waygate
Technologies**

a Baker Hughes business

Application note

Small Business Aviation

Benefits

- Intuitive user interface
- Clearly see and analyze through enhanced image processing
- Streamlined data management and reporting
- Real3D measurement



Summary

From CEOs to future clients, everything transported is precious cargo and essential to business. Ensuring the safety and integrity of equipment through maintenance and inspection is not only vital but is also mandatory in ensuring airworthiness. Engines, electronics, and fluid lines all require inspections on a regular basis.

Challenge

Not every part can be seen by the naked eye in an aircraft. Aircraft engine components, including compressors, turbines, and cylinders are internal and normally require disassembly to view. In addition to engines, there are several other components that sometimes need to be inspected. Components like serial numbers, hydraulic lines, and electronics (connections) are not easily accessible, but are worth inspecting.

Solution

With so many inaccessible parts needing inspection, Waygate Technologies provides ideal solutions for technicians to inspect Business Aircraft through their line of innovative borescopes.

Borescopes sometimes need to take a difficult path due to the complexity of engines and tubing. With its 4.0mm or 6.1mm diameter probes and superior articulation, the Everest Mentor Flex accesses areas not easily reachable within the engine or airframe. Mentor Flex has two and a half times more torque than typical articulation motors providing an increase of 42% in articulation range, making inspections effortless while saving valuable time and money.

TrueSight™ provides a proprietary combination of a wide XGA display, high resolution imager, advanced optics, and image processing software provides unmatched image clarity to maximize probability of detection. Live sharing and connectivity allow technicians to wirelessly stream video and transfer files so there's no need for flash drives, or SD cards. Inspectors even have the option to upload images to the InspectionWorks cloud so they can be accessible from anywhere in the world.

Meet measurement requirements with quality and evaluate defects in depth with Real3D stereo measurement. A fully surfaced point cloud enables analysis of cursor placement for accurate measurement.

When a simple inspection isn't enough, Waygate's Mentor Visual IQ (MVIQ) provides measurement and analytics not available anywhere else in the industry. The Blade Counter analytic automatically tracks blades in the scene and MVIQ's Real3D™ measurement provides the most advanced tools for measuring common blade indications with ease and accuracy. Easily find and flag defects through MVIQ's defect recognition analytics built on artificial intelligence and machine learning.

Business Aircraft inspections become more objective; more reliable; more accurate.

Baker Hughes 