The patented IS&S ThrustSense® Autothrottle is the first ever full regime autothrottle system to be certified for the King Air. ThrustSense allows the pilot to automatically control the power setting of the engines from takeoff to landing phases of flight, including go-around. The autothrottle computes and controls appropriate power levels reducing pilot workload.

ThrustSense computes thrust, holds selected speed/torque, and implements appropriate limit protection. When engaged by the pilot, the autothrottle system adjusts the throttles automatically to achieve and hold the selected airspeed guarded by a torque/temperature limit mode. Protection modes will automatically activate, regardless of autopilot engagement state in an attempt to keep airspeed, torque and temperature from exceeding pre-defined targets.

ThrustSense will automatically adjust the power of the remaining engine, when engine out, below Vmc mitigating adverse yaw allowing the aircraft to safely accelerate under full control. The use of the autothrottle ensures stabilized approaches by controlling speeds in the descent. During high pilot workload the autothrottle prevents the airplane from getting dangerously slow or fast and protects against over-torque and over-temp.

Control of the revolutionary autothrottle is housed in an easy to install Flight Instrument Standby that provides standby functionality on a high resolution LCD display with full LED backlighting improving reliability and full sunlight readability to the pilot. The thrust computer in the Standby Unit computes and controls torque during all flight phases including climb. If the pilot manually adjusts the power lever and approaches torque or temperature limits the autothrottle will warn the pilot.

ThrustSense is installed with minimum modifications to the existing flight deck and no structural modifications to existing throttle quadrants.

**ThrustSense Features & Benefits:**
- FADEC Like Engine Protection
- Hot Start Protection
- Under/Over-speed Protection
- Vmc Protection
- AutoTurbulence Speed
- RNP Speed Management
- Standby Functionality
- High Value System
- Reduced Pilot Workload
- Increased Situational Awareness
- Stabilized Approaches
- Symmetrical Engine Power Management
- Asymptotic Approach Into Speed Targets
- Minimal Additional Force Required to Over-ride Power Lever
- Installation - minimum modifications to existing flight deck

The **ThrustSense Standby Unit** commands the revolutionary Autothrottle Actuator.
ThrustSense System

ThrustSense installed on King Air 350 with Pro Line Fusion
IS&S is the world’s leading supplier of RVSM systems and integrator of Cockpit Information Systems (Cockpit/IP®) for the Commercial Air Transport, Military, and Business Aviation Markets. IS&S incorporates leading edge technologies into sophisticated, cost-effective solutions for the aerospace industry.

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