Published on *Innovative Solutions & Support* (https://presscenter.innovative-ss.com) on 11/17/15 1:55 pm EST

IS&S introduces New PC-12 Flight Deck with Integrated Autothrottle

Release Date:
Tuesday, November 17, 2015 1:55 pm EST

Terms:

Dateline City:
EXTON, Pa.

EXTON, Pa.--(BUSINESS WIRE)--Innovative Solutions & Support, Inc. (NASDAQ:ISSC) introduced its Future Generation (FG) Flight Deck featuring its PT6 Autothrottle (Patent Pending) for retrofit in the PC-12 at NBAA today. The FG Flight Deck features Primary Flight and Multi-Function Displays, Integrated Standby Unit (ISU) as well as the Integrated Flight Management (IFMS) and Electronic Flight Bag System. The innovative avionics suite will include dual flight management systems, autothrottles, synthetic vision and enhanced vision (FLIR). Additional configuration options include an ADAHRS upgrade and a full time Oil Quantity Sensor. The FG enhanced avionics suite is available for integration into other business aircraft.

The Future Generation avionics suite integrates Primary Flight Display (PFD), Multi-Function Display (MFD) information including charts, maps, airspace depiction with low and high vector routes, satellite weather, engine instruments, IGuard engine monitoring, electronic checklists and dual satellite base augmentation system (SBAS) GPS receivers in support of the Flight Management System with LPV approach capability. The end result is an integrated avionics suite providing unrivaled situational awareness and operational performance.

The IS&S developed PT6 autothrottle allows a pilot to control the power setting of the aircraft's engines by setting a desired flight characteristic rather than manually controlling fuel flow. The Autothrottle controls towards the optimum flight patterns and reduces the pilot's workload. Autothrottle implementation is compliant with TSO-C198 for Class D equipment. The software certification level for the Autothrottle functionality is in accordance with RTCA DO-178B level B.

The system provides a Maximum Continuous Thrust, Speed Hold and Speed Protection Mode. When engaged by the pilot, the IS&S Autothrottle system manipulates the throttles automatically to achieve and hold the manually selected airspeed and also has a torque/temperature mode and AOA 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.

The Integrated Flight Management System features include: Coupled WASS/LPV Approaches, Full RNP Compliance to DO-236B with 0.3 nm precision, Required Time of Arrival fully coupled flight profile performance based VNAV, autothrottle controls, dual FMS with Synthetic DME capability.

The Integrated Electronic Flight Bag features include: Airport diagrams and approach, Moving Maps with overlay of Flight Plan, Airspaces, Airways (both High and Low), runway depictions, navigation aids, and intersections; satellite weather, Electronic Checklists and Display and Control of enhanced vision system.

The IS&S Integrated Standby Unit processes and displays altitude, attitude, airspeed, slip/skid and navigation display information in a single instrument display.

IS&S designs all of its products to meet the most stringent industry requirements as well as to easily accommodate foreseeable future needs. They are equally suitable for owners of both newly manufactured aircraft and aircraft in need of an upgrade. IS&S's Flight Management Systems have been selected in all three market segments of Air Transport, Military and Business Aviation. IS&S supplies Flight Management solutions to the Commercial market for B-737 the Military market for C-130, L-100 and, the Business market for Eclipse Aircraft.

About Innovative Solutions & Support, Inc.

Headquartered in Exton, Pa., Innovative Solutions & Support, Inc. (www.innovative-ss.com) is a systems integrator that designs and manufactures flight guidance and cockpit display systems for Original Equipment Manufacturers (OEM's) and retrofit applications. The company supplies integrated Flight Management Systems (FMS) and advanced GPS receivers for precision low carbon footprint navigation.

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Language:
English

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Ticker Slug:
Ticker: ISSC
Exchange: NASDAQ

Source URL: https://presscenter.innovative-ss.com/press-release/iss-introduces-new-pc-12-flight-deck-integrated-autothrottle