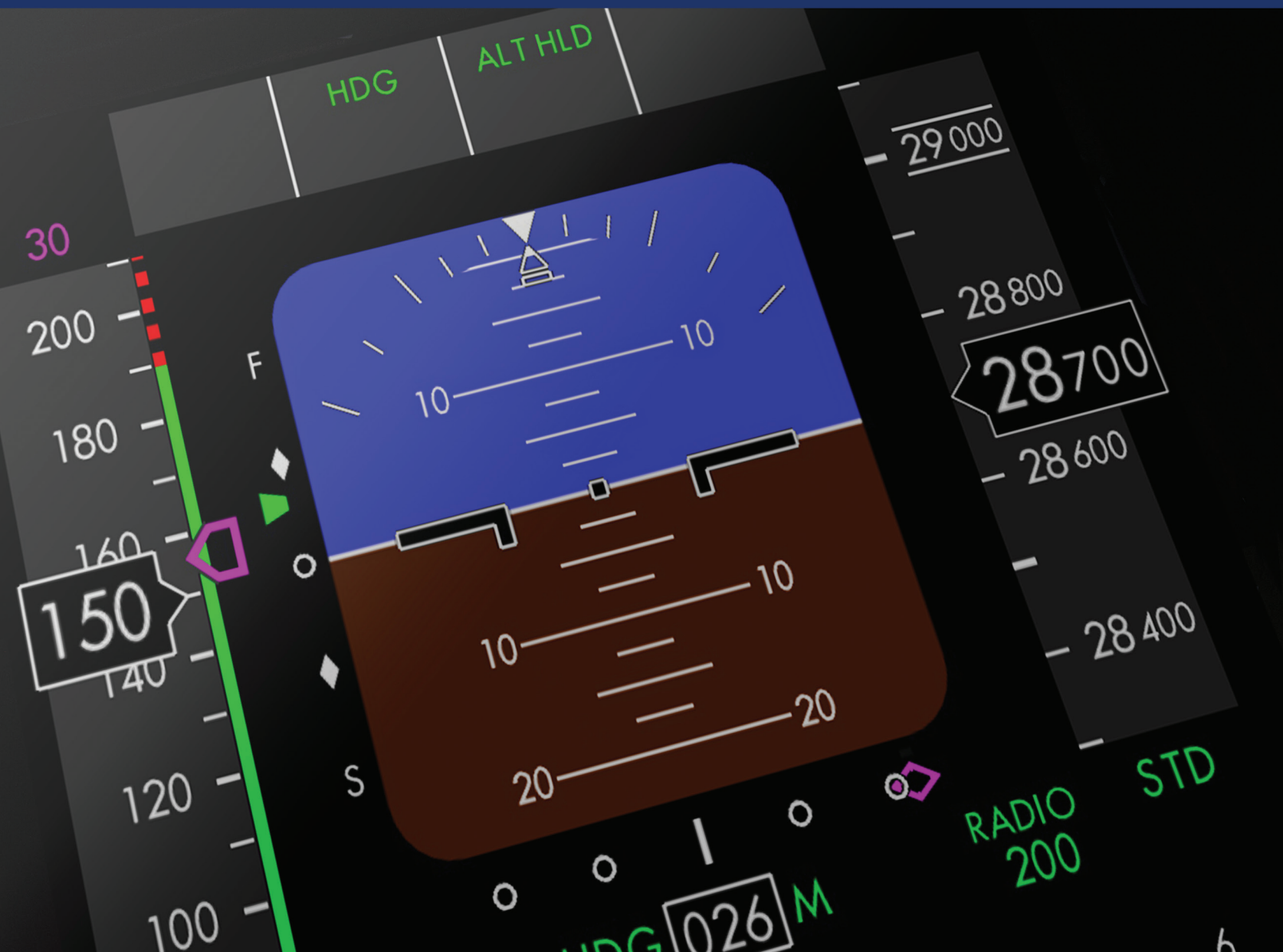




Advanced Avionics Solutions



Innovative Aerosystems - Engineered for Excellence

Innovative Aerosystems (formerly Innovative Solutions & Support) specializes in the design, development, manufacture, and support of avionics equipment for Commercial Transport, Military, Government and General/Business aviation applications that include:

- Precision Air Data Instruments
- Integrated Avionics Suites
- Autonomous Systems
- Autopilots
- Flight Management Systems
- ThrustSense® Turboprop Autothrottles
- Flat Panel Primary Flight and Navigational Displays (Cockpit/IP®)
- Engine Instrument Displays
- Flat Panel Multifunction Displays
- Mission Displays
- Fuel Quantity Gauging Instruments

The foundation of our success is customer satisfaction. Many of the world's most respected aircraft builders, owners and operators have come to rely on our leading edge avionics technology, superior craftsmanship, and stringent quality standards to significantly enhance reliability and performance and provide superior value.

Our manufacturing processes enable us to offer a substantially reduced product cycle time and cost advantage over our competition.

All Innovative Aerosystems products are proudly manufactured in the USA, with all disciplines—from engineering and design to development and testing—performed in-house at our U.S. headquarters.

Commitment to Quality

Product quality is of vital importance to IA and its customers. Our quality system has been audited and approved by The Boeing Company, Northrop Grumman, Gulfstream Aerospace, Textron Aviation, Sierra Nevada Corporation and others.

Utilizing the Six Sigma process evaluation program, we are continuously seeking to improve our operational efficiencies, including our design and manufacturing processes and thus the general quality of our products.

Innovative Aerosystems is certified and compliant to AS9100D, (based on and including ISO9001:2015) by the independent registrant DEKRA Certification, Inc. for design and manufacturing. As an AS9100D certified manufacturer, we maintain high quality industry standards in the education of our employees and the design and manufacture of our products. Our goal is to insure that we can consistently deliver our products and related services in a manner that meets or exceeds customer quality requirements.

Innovative Aerosystems is well versed in the philosophy that variation causes defects. As part of our growth and knowledge in trying to control and reduce variability, IA made significant capital expenditures to bring surface mount technology (SMT) capabilities in-house. This investment resulted in a significant reduction of solder joint defects along with significant cycle time reduction. Our self-sufficiency in this area enhances our ability to bring new products to market faster.



State-of-the-Art Facility

Our design and manufacturing campus in Exton, Pennsylvania houses all the disciplines and equipment needed to support the design, qualification, production and support requirements of our many programs.



Innovative Aerosystems
Surface Mount Facility

In addition to corporate and administrative functions, this facility contains the following:

Design Engineering - This department encompasses Mechanical, Electrical, and Manufacturing Engineering and is co-located with Documentation and Configuration Management to ensure traceability and change control throughout each project's life cycle. Each product is designed for ease of maintainability and troubleshooting. As part of the preliminary design process, a life cycle assessment is conducted for every component used in the production of Innovative Aerosystems products.

Software Engineering - Innovative Aerosystems has a mature DO-178B/C compliant software development process, with dozens of products certified to Level A, as well as many other products certified to lower levels. We employ the services of independent FAA DERs for all FAA-certified software development and have been audited by many customers as well as the FAA.

Engineering Lab - The Innovative Aerosystems research and development lab is fully equipped to support product development and testing with full environmental and ESD controls. A full complement of test equipment required to support product development resides in this area.

Customer Service and Repair - Our ability to provide prompt and effective repair and upgrade service for our products after the sale is critical to our future growth. An AOG line is supported 24/7 and ensures timely resolution of our customers' service issues.



Final Acceptance and ESS
Testing Facilities

SMT/PWA Assembly - Full service PWA assembly area that includes an optically aligned screen printer, MYDATA SMT placement, Reflow oven, automated CCA cleaner, screen cleaner, automated optical inspection (AOI) and X-ray capabilities wave soldering. Our three My Data Pick & Place Machines are able to place any component: fine-pitch, BGAs, QFPs, chip scale BGAs, CSPs, flip chips, and 0201s. They are capable of placing 23,000 components per hour and have built-in electrical and visual component verification. This area has the capacity to produce over 5,000 PWAs per month.



Class 100,000 Final Assembly
Clean Room

Clean Room Final Assembly - IA has Class 10,000 and 100,000 clean rooms. All mechanical and final assembly occur in these positive pressure rooms, with full ESD and humidity controls. Several hundred instruments are produced each month in this area.

Final Acceptance and ESS Test - All (100%) instruments are calibrated, subjected to Environmental Stress Screening (ESS) and Final Acceptance tested in this area. This room is equipped with a full complement of vibration equipment, ESS chambers, and custom and standard test equipment required to support production. WE also take advantage of combined environmental HALT/HASS Reliability Chambers.

Quality Audits and FAA Approvals

The growing concern for safety in aviation has increased external Customer Quality Audits/Site Surveys nearly six-fold in the past five years. IA continues to successfully support routine audits from its diverse customer base. The Boeing Company approved our Quality Management System to BQMS D6-82479, Appendix A.

The Federal Aviation Administration (FAA) has surveyed Innovative Aerosystems production quality system and has issued approval to 14 CFR FAA Part 21, Subpart O for Technical Standard Order (TSO) Authorizations. IA is also a FAA Production Approval Holder (PAH) under facility/project number PQ0929NE. Our latest FAA Quality System Audit (QSA) was conducted with zero findings issued.

IA holds 193 Technical Standard Orders (TSO), 28 Supplemental Type Certificates (STC) and 30 Parts Manufacturing Approvals.

In addition, IA holds a 14 CFR FAA Part 145 Repair Station Air Agency Certificate with a Limited Accessory and Instrument Rating, Air Agency Certificate Number 172R916X.

Our Products

Air Data Display Unit

The RVSM compliant ADDU performs air data computation, input processing, data display, and alert functions enabling the system to display altitude, target altitude, and baro setting data; provide decision height and altitude alert indication; as well as compute and output altitude, airspeed, and alert flight control data. Signal processing is performed by an optional Analog Interface Unit (AIU) to interface with and support a wide range of autopilot/flight control, flight data recording, and alert equipment.

Altimeter

The RVSM compliant altimeter functions in the self-sensing (Standby) or repeater (Normal) mode. It computes and displays ASN and the Hbc from pressure altitude data received from the digital air data computer via ARINC 429

Airspeed Indicator

The RVSM compliant ASI operates in Normal or Standby mode. It displays IAS, ground speed (GS), true airspeed (TAS), Vmo, and angle of attack (AoA) data from the digital air data computer via ARINC 429

Digital Air Data Computers

The DADC instrument computes air data for interfacing equipment in analog, digital and discrete formats. The DADC supports operation of Altimeters, Mach Airspeed Indicators, Autopilot Controllers, as well as other instruments.

Engine/Fuel Instruments

Innovative Aerosystems provides multiple engine and fuel gauges for military and commercial applications. The SHP indicator provides indication of shaft horsepower at a constant 13,820 RPM. The Turbine Inlet Temperature Indicator provides an updated form, fit and function replacement for the earlier P-3 TIT Indicator made by Lockheed. It is compatible with military thermocouple standards and aircraft connectors. Our Fuel Quantity Indicator/Totalizer operates in any of the individual fuel quantity indicator (FQI) positions or the totalizer position. Pin jumpers in the mating connector direct operating mode, English (LB) or metric (KG) units of measure, and scaling.

Primary Flight / Navigation Displays

The Innovative Aerosystems Cockpit/IP® is an easily installed upgrade designed to replace existing EFIS, as well as the current pilot and copilot altimeter, airspeed, VSI, and RDMI gauges. Flat Panel Display Systems can add value and increase the operation life of legacy aircraft. IA Flat Panel Display Systems have received TSO and STC Approval

Mission Displays

Specialty AMLCD mission displays as supplied for GTTA Aerial Refueling Operator Control Display and US Navy LCAC Programs

Multifunction Displays

A variety of functions are served by IA MFDs, such as the Pilot's Mission Display (PMD) for the 767 Tanker. Available in a large menu of sizes.

Engine Displays

Flat Panel Engine Instrument Display for low cost upgrade of the C-130 engine instrument cluster with a 75% reduction of LRUs.



Air Data Display Unit



Digital Air Data Computer



Shaft Horsepower Gauge



Primary Flight / Navigation Displays



Aerial Refueling Mission Display



Flat Panel Engine Instrument Displays



Innovative Aerosystems Autopilot Product Line

S-TEC® and AeroCruze Autopilot Systems from Innovative Aerosystems combine decades of proven flight control performance with a long-term commitment to engineering innovation, product support, and continued certification expansion. The portfolio—including the S-TEC 3100, S-TEC 5000, AeroCruze 100, and AeroCruze 230—serves a broad range of general aviation and business aircraft, delivering advanced digital autopilot capabilities that reduce pilot workload, enhance safety, improve precision, and increase confidence throughout every phase of flight.

As part of Innovative Aerosystems' expanding integrated avionics ecosystem, these autopilot solutions are supported by in-house engineering expertise and are designed to seamlessly integrate with advanced flight displays, navigation systems, engine indication, and autothrottle technologies. Focused on reliability, modernization, and long-term lifecycle support, Innovative Aerosystems is investing in the continued evolution of its flight control portfolio while delivering the trusted performance operators have relied on for decades.



Liberty NextGen Flight Deck

The Liberty Flight Deck is Innovative Aerosystems' next-generation integrated avionics solution, engineered to modernize legacy aircraft with advanced cockpit technology inspired by commercial, military, and OEM platforms. Designed for cost-effective retrofit, Liberty extends aircraft service life while enhancing mission capability, operational efficiency, safety, and long-term asset value. Its scalable architecture supports multiple high-resolution display configurations and seamlessly integrates advanced flight management, engine indication, synthetic vision, autothrottle, weather, and standby systems into a single, intuitive flight deck.



Built on a fully digital, redundant architecture, the Liberty Flight Deck reduces pilot workload, improves situational awareness, and simplifies maintenance while minimizing installation downtime. From replacing legacy instrumentation to delivering NextGen capabilities and open-system flexibility, Liberty provides operators with a future-ready cockpit solution that enhances performance, reliability, and mission effectiveness across a wide range of aircraft platforms.

ThrustSense® Autothrottle

The IA Autothrottle (A/T), ThrustSense, is a full regime A/T, from takeoff to landing phases of flight including go around, in addition the system incorporates engine and speed exceedance protection. Think FADEC functionality with low and high speed protection for turboprops.

ThrustSense includes VMCA mitigation for twin engines with engine out thrust control in case of engine failure that automatically sets the remaining engine to the correct power level if airspeed drops below minimum controllable airspeed.

ThrustSense is an elegant solution that improves safety, performance, is high value, light weight, installs with minimum downtime and is a mature proven system.



ThrustSense is available for retrofit on King Air 200 and 300 with Pro Line Fusion, Pro Line 21, and G1000 Flight Decks and is also factory installed on the King Air 260 and 360.

Utilities Management System (UMS)

The IA Utilities Management System (UMS) is an open architecture modular system for use in part 23/25 aircraft and helicopter platforms. The UMS monitors aircraft sensors, controls aircraft systems and is scalable to meet the requirements of any aircraft. This allows the aircraft manufacturer configuration capabilities through table based configuration files supporting parameter modifications and simple control algorithms that eliminate the need for costly software updates and recertification efforts.



Global Positioning System Sensor Unit (GPSSU)

The IA GPS Sensor Unit is a satellite receiver that utilizes the signals coming from Global Positioning System (GPS) satellite constellation and satellite-based augmentation systems (SBAS) such as the USA Wide Area Augmentation System (WAAS). It is a DO-229D compliant GPS-SBAS receiver certified by the FAA for TSO-C145c Class Beta 3.



Integrated Standby Unit (ISU)

The IA Integrated Standby Unit (ISU) calculates, processes and displays altitude, attitude, airspeed, slip/skid, and navigation display information in a logical and concise single instrument display. The unit is designed to support additional enhancements for Radio Management and Alternate Navigation (ILS, VOR, DME, ADF, FMS, GPS) functionality. The IA ISU line comes in a variety of sizes to meet your needs.



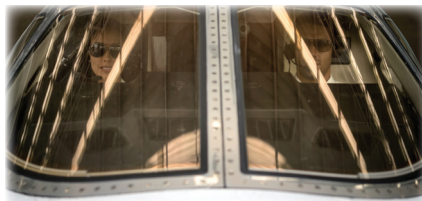
Support You Can Trust

Installation - Innovative Aerosystems outreach extends to the installation center and our clients' understanding of their new cockpit avionics technology is further enriched by an extension of technical expertise.

Training - Knowledge is certainly power, but for a pilot and crew embarking upon a new relationship with cockpit technology, knowledge becomes life blood. IA training is your main artery to informed, safe operations.

Utilization - From pre-flight to post-flight and beyond, your IA relationship stays connected in the cockpit, hangar or wherever your journey takes you.

Enhancement - In time, even an IA product will need updating and modification. We take on the challenge with the same energy and spirit of invention as we did creating the original.



Innovative Aerosystems Clients

Innovative Aerosystems serves the leading aerospace companies in the world and has been given numerous awards for its products by customers such as Boeing, Lockheed Martin, Rockwell Collins, Gulfstream, and Raytheon.

Whether the customer is large or small, IA strives to provide the personal and responsive service on which its success is achieved.

ABX Air
Aeromech, Inc.
Aerospatiale/Airbus
Air Canada
Air France Industries
Alternative Avionics
Amazon
American Airlines
AMES
ARINC
ATI
BAE Systems
Boeing Company
Bombardier/Learjet
CAE Inc.
Department of National Defense Canada
DHL Airways Inc (Astar)
Duncan Aviation
Eclipse Aerospace
Epps Aviation
FedEx Express
Gulfstream
Icelandair
Kalitta Air

L-3 Communications Lockheed Martin
MTC Technologies, Inc.
Marshall Aerospace
Midcoast Aviation
NASA
National Airlines
Northrop Grumman
Piaggio
Pilatus Aircraft, Ltd.
Raytheon
Rockwell Collins
Royal Australian Air Force
Royal Netherlands Air Force
Ruag Aerospace
Sabreliner
Sierra Nevada Corp
Snow Aviation
Star Aviation
Textron
United Parcel Service
US Air Force
US Coast Guard
US DOD
US Navy
Western Aircraft

40,000 Square Foot Plant Expansion





**Data Sheet and all information contained in it is proprietary to Innovative Aerosystems
All specifications subject to change without notice from the manufacturer.**

Innovative Aerosystems is the world's leading supplier of RVSM solutions and a trusted integrator of Cockpit Information Systems (Cockpit/IP®) across the Commercial Air Transport, Military, and Business Aviation markets. We deliver advanced, cost-effective avionics by incorporating leading-edge technologies into proven, mission-ready systems for the global aerospace industry.



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