

Dassault Falcon[®]

Avionics Solutions



Universal Avionics has long been established as a strong market leader in providing products uniquely positioned for the needs of business operators. The company specializes in bringing advanced avionics technologies to operators of established aircraft – technologies which are often only available on the very latest aircraft. Universal's innovative avionics solutions for your Dassault Falcon aircraft will benefit your flight operations today and in the future, while increasing the value of your aircraft.

Advanced Technology for Increased Utility and Safety

The Dassault Falcon is a long-life aircraft, built with high engineering standards, strong structural quality, and capable technology. Upgrading the flight deck of your Falcon greatly improves the aircraft's utility and safety of flight.

In addition, upgrading your Falcon's flight deck can also bring many other significant benefits to your operations, such as:

- **Increased capability**
- **Improved flight crew cockpit efficiency**
- **Maximized Return on Investment (ROI)**
- **Approval to fly in all airspace and gain compliance with emerging technologies and requirements**

Universal Avionics' cutting-edge equipment such as the Advanced Flight Displays, Satellite-Based Augmentation System (SBAS)-capable Flight Management Systems (FMS), and Airborne Data Link System, all combine to provide an opportunity for business aircraft to take full advantage of the increased safety and efficiency that a suite of advanced avionics offer. Along with benefits of the latest advancements in avionics technology comparable to current production OEM aircraft, the operator will also realize increased reliability, maintenance costs savings, and less downtime.

Platform for NextGen and SESAR

Universal Avionics' current product lines offer solutions for some of the most advanced industry technologies and requirements such as: SBAS, Required Navigation Performance (RNP) and Precision-Area Navigation (P-RNAV), Automatic Dependent Surveillance-Broadcast (ADS-B), the Future Air Navigation System (FANS), and the Aeronautical Telecommunications Network, Level B1 (ATN B1) capability in European airspace. Equipping your Falcon for future compliance and emerging technologies not only ensures approval to fly in all airspace, but it will also bring significant benefits to your operations today.

SBAS

Featuring an extremely precise, internal SBAS Global Positioning System (GPS) receiver, Universal Avionics SBAS-FMS improves accuracy and integrity of GPS-derived position information. Designed in compliance with RTCA DO-229 to meet current standards and emerging technology in satellite-based navigation, the SBAS-FMS is compatible with regional SBAS systems in Europe (EGNOS), North America (WAAS), Japan (MSAS) and India (GAGAN). In addition, the SBAS-FMS meets stringent internal monitoring requirements to provide guidance to any of the Minimum Descent Altitude (MDA) levels for Area Navigation (RNAV) (GPS) approach guidance: Localizer Performance with Vertical Guidance (LPV), Lateral Navigation/Vertical Navigation (LNAV/VNAV) and LNAV-only. The SBAS-FMS meets RNP/Actual Navigation Performance (RNP/ANP) airworthiness requirements for US RNP procedures in addition to European Basic—RNAV (B-RNAV) and P-RNAV.

ADS-B

As a TSO-C146c approved FMS, the SBAS-FMS is approved to provide the navigation source as part of the complete avionics system to meet ADS-B Out requirements. The Federal Aviation Administration (FAA) and European Aviation Safety Agency (EASA) future mandates include ADS-B Out equipage to support NextGen surveillance requirements.

FANS 1/A+

Combined with Universal Avionics SBAS-FMS and Cockpit Voice Recorder (CVR), the UniLink® UL-800/801 Communications Management Unit (CMU) provides an opportunity to take full advantage of the benefits that advanced data link capabilities offer, like flight operations efficiency and reduced pilot workload. As an optional airborne data link system, the UniLink UL-800/801 CMU provides advanced air-to-ground, two-way data link capabilities, and is FANS 1/A+ compliant. This includes Controller-Pilot Data Link Communications (CPDLC) and Automatic Dependent Surveillance-Contract (ADS-C) functionality that has been mandated for airspace in the North Atlantic.

ATN B1

The UniLink UL-800/801 CMU is also provisioned for ATN B1 capability in European airspace, allowing operators to proactively equip for this and the FANS requirements while increasing the aircraft's utility today.

A Trusted Network of Authorized Dealers

Avionics installations for Dassault Falcon flight decks may be accomplished through any one of Universal Avionics' Authorized Dealers. The extensive Authorized Dealer Network includes a number of facilities that specialize in servicing Dassault Falcon aircraft. Operators are encouraged to refer to the dealer pages at uasc.com to find an Authorized Dealer to support their avionics installation.

Authorized Dealers must have demonstrated the key technical knowledge, skills and abilities needed to successfully install and support Universal Avionics' products over the course of their life cycle. The Authorized Dealer is a value-added reseller of all of Universal Avionics product families, with the ability to access incentive programs, promotions, and leverage the knowledge of Universal's award winning Customer Support and Technical Sales organizations.



Dassault Falcon 900B



Dassault Falcon 50 (5-Display)



Dassault Falcon 50 (4-Display)



Dassault Falcon 20



Dassault Falcon 10

Installations

Authorized Dealers have successfully installed Universal Avionics equipment on the following models:

- Falcon 10 (Flight Deck Retrofit)
- Falcon 100 (Flight Deck Retrofit)
- Falcon 20 (Flight Deck Retrofit)
- Falcon 200 (FMS)
- Falcon 50 (Flight Deck Retrofit)
- Falcon 50EX (FMS)
- Falcon 900B (Flight Deck Retrofit)
- Falcon 2000 (FMS)

Contact your Universal Avionics Regional Sales Manager to learn more about existing and in-work STCs for your Falcon.

Recommended Equipment

As a minimal upgrade, a recommended installation includes:

- EFI-890R Advanced Flight Display Package (3-Display)
- Vision-1® Synthetic Vision System (SVS)
- SBAS-Flight Management System (FMS) (single or dual)
- Radio Control Unit (RCU) (dual)

EFI-890R Advanced Flight Display with Vision-1 SVS



Flight deck modernization with Advanced Flight Displays, such as Universal Avionics EFI-890R, offer significant improvements in safety while reducing pilot workload. Featuring an adaptable design, the EFI-890R is valuable in retrofit applications, offering flexibility for installation as a stand-alone Primary Flight Display (PFD) or Multi-Function Display (MFD), as well as a fully integrated PFD/Navigation Display (ND) cockpit system. At a minimum, a 3-panel suite is recommended. To best match your aircraft, operational requirements, and budget, a 4- and 5-panel suite is also offered.

Displayed on the EFI-890R, Universal Avionics Vision-1 SVS provides a unique, increased level of situational awareness. Vision-1 features an "Egocentric" pilot's view, a perspective as if looking out the flight deck window, and an "Exocentric" wingman's view, a 3-D view of your aircraft with respect to the flight path and surrounding terrain.

An upgrade to Universal Avionics SBAS-capable FMS provides the latest in FMS technology, including greater database memory storage, upgraded internal processors, and the use of SD card or USB memory stick for database uploads. In addition, the SBAS-FMS provides access to all RNAV (GPS) approach types, including the most precise and accurate GPS-based approaches available today. The SBAS-FMS is provisioned to support emerging Performance Based Navigation (PBN) requirements.

The RCU provides a centralized, easy-to-use control interface, with radio tuning and mode control function. The RCU seamlessly integrates with the Universal SBAS-FMS, or can be integrated into the flight deck as a stand-alone radio tuning device.

Additional Options

For advanced capabilities, the following additional items are recommended:

- UniLink UL-800/801 CMU
- Cockpit Voice Recorder (CVR)
- Terrain Awareness and Warning System (TAWS)

Additional Options (continued)

For operators seeking advanced data link capabilities, the UniLink UL-800/801 CMU is recommended. A data-capable CVR is required for FANS data link message recording. In addition to meeting FANS 1/A+ standards, the UniLink UL-800/801 provides many non-mandated benefits including updated weather information in flight, digital ATIS information, graphic weather maps, and electronic pre-departure clearance.

Universal Avionics TAWS is also recommended. It integrates with the FMS to provide an additional unique predictive alerting feature, based on information in the flight plan. It provides exceptionally crisp and clear graphical depiction of actual terrain in three view formats (Map View, 3-D Perspective View and Profile View), on the FMS Control Display Units (CDU) or flight deck displays such as the EFI-890R.

Avionics Solutions for Your Aircraft

Universal Avionics specializes in flight deck upgrades, providing flexible options for over 50 aircraft types ranging from the Pilatus PC-12 to the Boeing 747. Customize the perfect fit for your aircraft operation, from an SBAS-capable FMS upgrade to one, two, three or a full suite of Advanced Flight Displays configured in Primary Flight Display (PFD), Navigation Display (ND) and Multi-Function Display (MFD) formats for the utmost in flexibility.

Avionics for you, your aircraft and the way you fly – Universal Avionics.

Knowledgeable Professionals Providing Individualized Support

Universal Avionics' worldwide customer support is provided by a network of regional offices, field engineers, service centers and repair stations. Its consistently high rankings from industry publications demonstrate the company's commitment to providing stellar product and customer support services. Continual support for its customers throughout the product life cycle is the keystone of Universal Avionics' service philosophy. Customer support and field service engineers from Universal Avionics' Tucson headquarters facility, Midwest US, European and Asia Pacific offices assist via phone, email or on site support for new and existing installations.

FlightAssure[®] Extended Warranty Program

Universal Avionics FlightAssure Extended Warranty Program provides customers with stability in their maintenance and repair costs. The program was designed to help customers' extended budget planning with cost protection in the event avionics service is needed. It includes full coverage on exchanges and loaners at no charge. Component repairs, No Fault Found (NFF), as well as Removal and Refit coverage (R&R) are also included. For more information, visit uasc.com/warranty.



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