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# GENESYS AVIONICS SUITE™

## FLIGHT DECK UPGRADE SYSTEM

Precise Performance.  
Proven Experience.  
Personalized Attention.



# COMPLETE FLIGHT DECK UPGRADE FOR SPECIAL MISSION AIRCRAFT

The Genesys Avionics Suite provides renewed operational life to aircraft through a complete and comprehensive flight deck system upgrade to existing fixed-wing and helicopter aircraft.

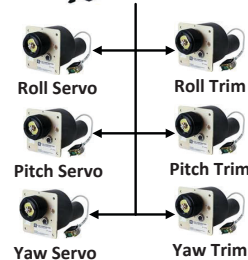


- Video (DVI)
- DISCRETES
- AUDIO
- RS-232/422
- ARINC 429
- Video (RS-170)
- ANALOG
- ARINC 453/708

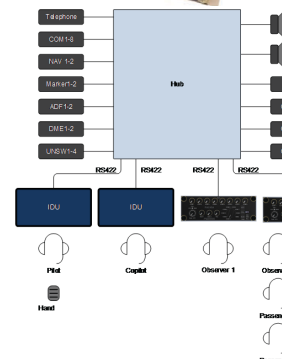
### 3<sup>rd</sup> Party Interfaces

- Mode-S Transponder w/ADS-B
- Weather Radar
- Mission System
- ELT
- CVR/FDR
- RADALT, DME, ADF, TACAN

### Autopilot Flight Control Computer



### Avionics Management Hub



Features of the Genesys Avionics Suite include:

- PFD and MFD EFIS digital flight deck smart display suite
- Synthetic Vision and Highway-In-The-Sky flight navigation symbology
- TAWS or HTAWS terrain warning & alerting
- Full EICAS display capability
- Integrated Genesys GDR digital UHF & VHF Nav/Comm radio package
- Fixed-wing S-TEC Autopilot or helicopter HeliSAS/GRC Autopilot + SAS avionics
- Integrated voice warning master caution system
- Mil-Std qualified
- NVG compatible



## SYSTEM COMPONENTS

- EFIS Displays
- Autopilot
- Nav/Comm Radios
- Transponders
- Sensors & Antennas
- Audio Management
- Control Panels
- Switches & Indicators
- GPS & ADAHRS

# FIXED-WING AIRCRAFT APPLICATIONS

The Genesys Avionics Suite provides comprehensive flight deck upgrade options for popular fixed-wing aircraft makes and models including civil, government, and military aircraft.



# HELICOPTER AIRCRAFT APPLICATIONS

The Genesys Avionics Suite provides comprehensive flight deck upgrade options for popular helicopter aircraft makes and models including civil, government, and military aircraft.



# FLIGHT DECK MODERNIZATION FOR TO



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# TODAY'S AND TOMORROW'S MISSIONS



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# Genesys Avionics Suite™ Components

## EFIS - Primary & Multi-Function Flight Displays



Genesys' IDU EFIS suites feature a variety of PFD and MFD formats that can be configured to show flight instruments, moving map, HSI, flight planner, traffic, terrain, weather radar, datalink, video, radio/audio management, and engine displays.

## FMS - Flight Management System



Genesys' IDU EFIS suites feature a built-in Flight Management System for improved mission effectiveness, enhanced safety, and workload management.

## EICAS - Engine Indication & Crew Alerting System



Genesys' patented OASIS (Open Architecture System Integration Symbology) software allows easy customization and display of engine information and CAS messages.

## TAWS - Fixed Wing & Rotary Wing



Genesys' IDU EFIS suites feature all classes of fixed wing and helicopter TAWS (Terrain Awareness and Warning System) for enhanced safety and workload management.

## SVS - Synthetic Vision & Highway-In-The-Sky



Genesys' 3D Synthetic Vision and Highway-In-The-Sky flight navigation enhances safety and reduces pilot workload plus provides precision aircraft operations including RNP and LPV approaches.

## Fixed-Wing Autopilots

S-TEC fixed-wing autopilots are full-featured, attitude-based digital flight control systems that provide dramatic workload reduction and safety enhancements making flying safer and more enjoyable.



## Helicopter Autopilots

Genesys' helicopter Autopilot and Stability Augmentation Systems provides the safety and workload reduction benefits of stability augmentation for both VFR and IFR operations in all weather conditions and environments.



## Radios - Navigation & Communication

The Genesys Digital Radio (GDR) is a family of remote-mount, software-definable radios combining VOR/localizer/glideslope and marker beacon navigation and VHF communication with a UHF communication option in a single box.



## Interfaces

System interfaces are key to the open-architecture design to help dramatically reduce integration costs and schedules. The Genesys Avionics Suite includes all necessary interfaces to get the aircraft up and flying.



## Sensors

Sensors provide key aircraft system inputs to help increase aircraft operational performance and reduce integration costs and schedules. The Genesys Avionics Suite includes all necessary sensors to get the aircraft up and flying.



+1.817.215.7600  
Genesys-Aerosystems.com

