GENESYS AVIONICS SUITE™
FLIGHT DECK UPGRADE SYSTEM
FOR LOCKHEED C-130 AIRCRAFT

GENESYS
AEROSYSTEMS
a Moog Company

Precise Performance.
Proven Experience.
Personalized Attention.

COMPLETE FLIGHT DECK UPGRADE FOR LOCKHEED C-130 AIRCRAFT

The Genesys Avionics Suite™ provides renewed operational life and increased mission effectiveness through a complete and comprehensive cockpit system upgrade customized to the unique operational needs of existing C-130 aircraft.
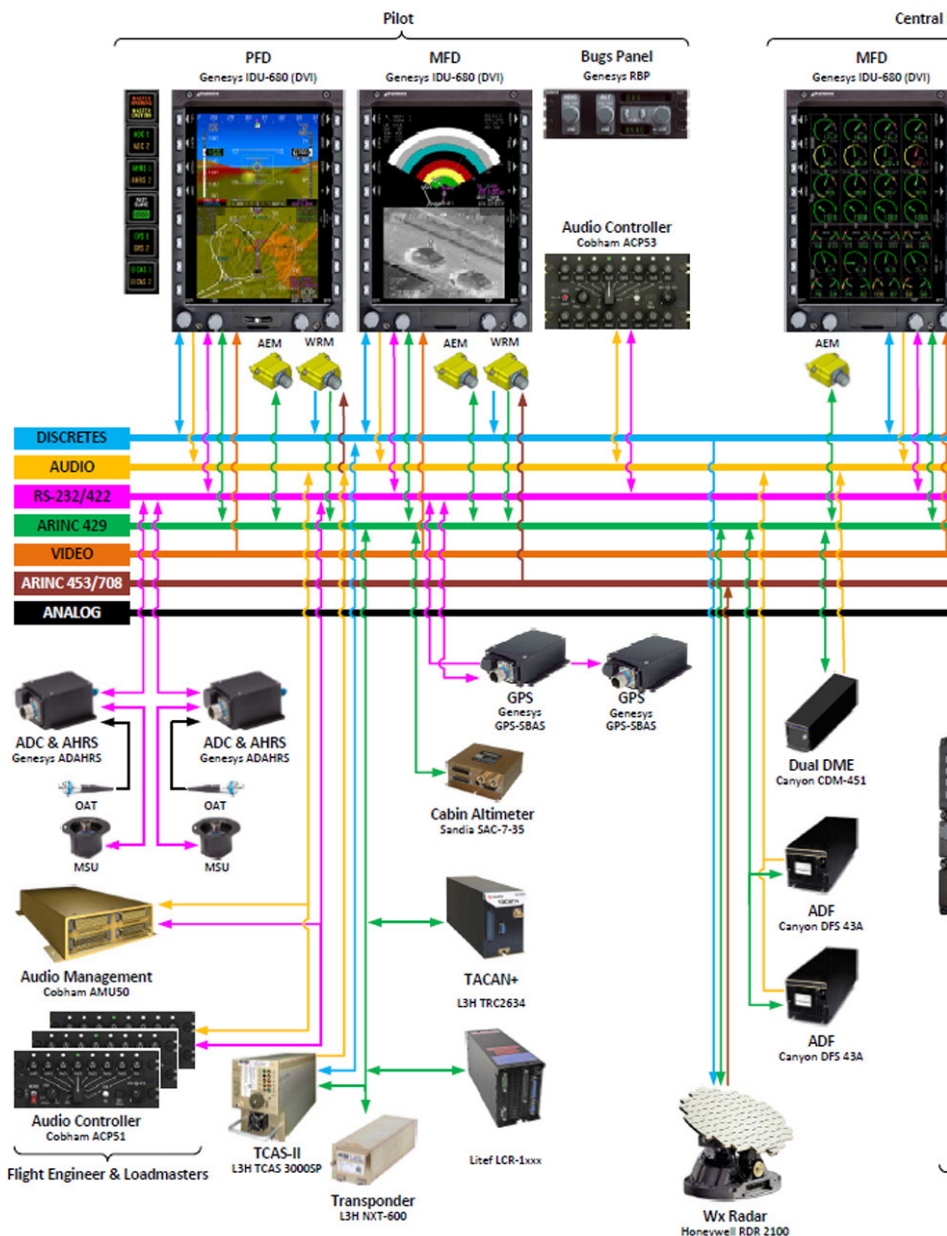
The Genesys Avionics Suite™ provides a future-forward technology architecture with future-proof upgradability. This allows the aircraft to be upgraded as new features and technologies are fielded in the future to keep the C-130 modernized and mission effective. The Genesys Avionics Suite™ provides more capabilities and greater performance at a fraction of the cost.

SYSTEM COMPONENTS

- EFIS Displays
- Autopilot
- NAV/COMM Radios
- Electronic Flight Bags
- Transponders
- Sensors & Antennas
- Audio Management
- Control Panels
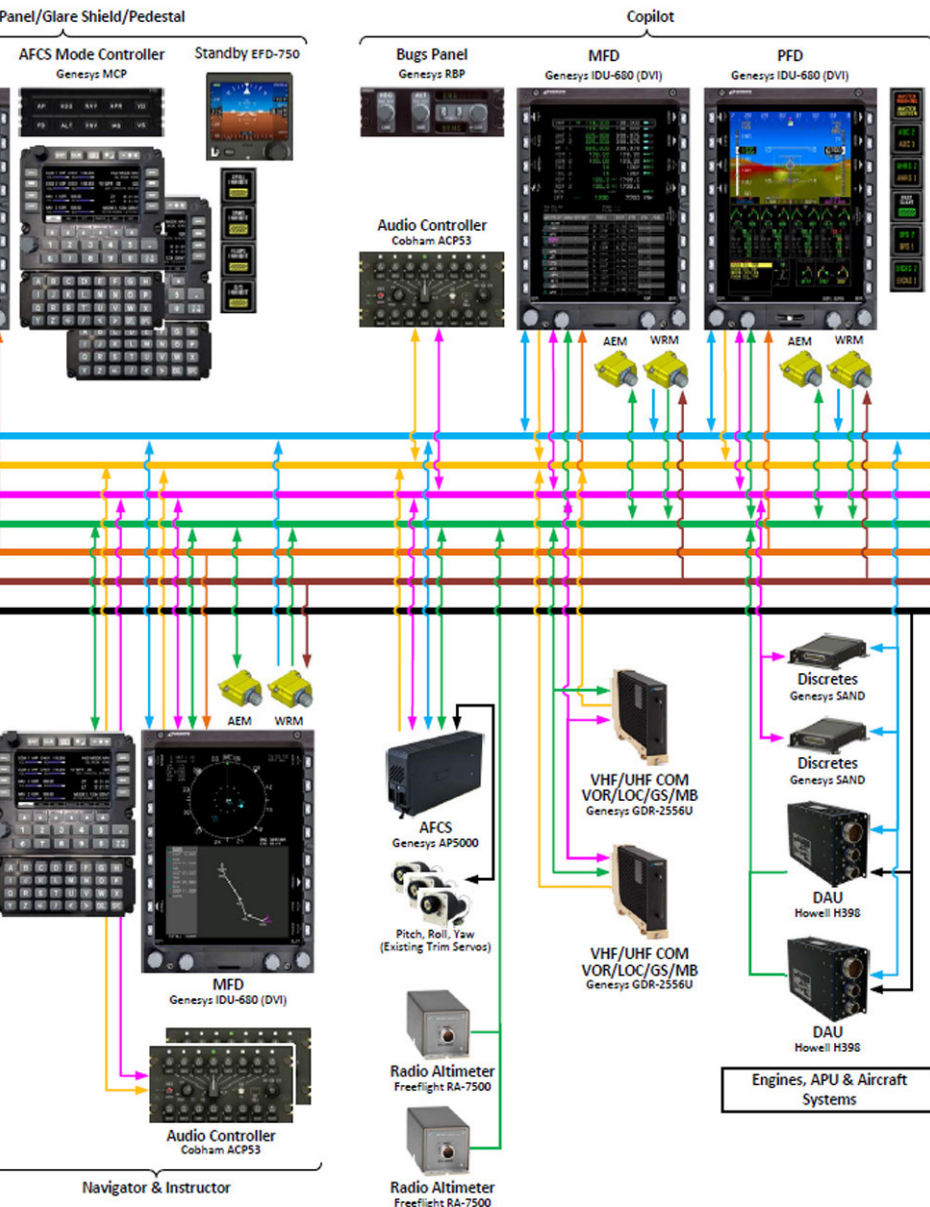- Switches & Indicators
- GPS & ADAHRS

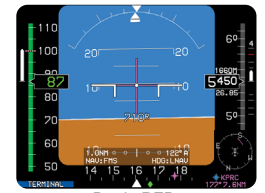**SCAN ME!**

Features of the Genesys Avionics Suite include:

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

Panel/Glare Shield/Pedestal

AFCS Mode Controller
Genesys MCP

Standby EFD-750

Copilot

Bugs Panel
Genesys RBP

MFD
Genesys IDU-680 (DVI)

PFD
Genesys IDU-680 (DVI)

Audio Controller
Cobham ACP53

AEM   WRM   AEM   WRM

AEM   WRM

Discretes
Genesys SAND

Discretes
Genesys SAND

VHF/UHF COM
VOR/LOC/GS/MB
Genesys GDR-2556U

AFCS
Genesys AP5000

DAU
Howell H398

Pitch, Roll, Yaw
(Existing Trim Servos)

VHF/UHF COM
VOR/LOC/GS/MB
Genesys GDR-2556U

DAU
Howell H398

MFD
Genesys IDU-680 (DVI)

Radio Altimeter
Freeflight RA-7500

Engines, APU & Aircraft
Systems

Audio Controller
Cobham ACP53

Radio Altimeter
Freeflight RA-7500

Navigator & Instructor
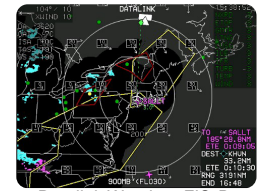
OPS FEATURES

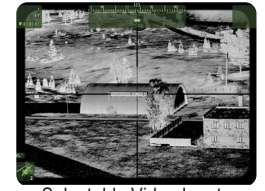PFD with SVS & HITS

Basic PFD

EHSI

Customizable Synoptics

Moving Map/Terrain/Obstructs

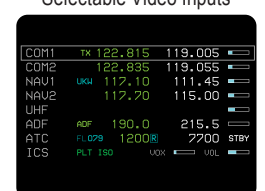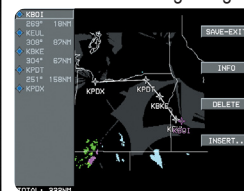Datalink Weather, FIS-B
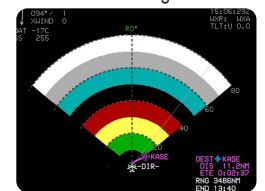

EICAS

Selectable Video Inputs

Traffic Alerts + Lightning

Comms Management

Graphical Flight Planner

Radar

Genesys Avionics Suite™ Components

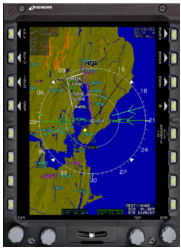## EFIS - Primary & Multi-Function Flight Displays

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.

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.

FMS - Flight Management System

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

Electronic Flight Bags

Optional electronic flight bags (EFB) provide increased mission planning and execution effectiveness. EFB's provide off-the-shelf ready solutions for tactical air drop planning (HARP/CARP) and other planning benefits.

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.

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.

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.

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.

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.

Sensors

Sensors provide key aircraft system inputs to help increase aircraft operational performance and reduce integration costs and schedules. The Genesys CN-235 avionics suite includes all necessary sensors to get the aircraft up and flying.

GENESYS
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