GENESYS AVIONICS SUITE™

AIRBUS EC-145E AIRCRAFT FLIGHT DECK UPGRADE SOLUTION

The Genesys Avionics Suite™ designed for the Airbus EC-145e helicopter features four IDU-450 displays in a dual-sided PFD/MFD format, dual redundant ADAHRS, Dual GPS/FMS, and IFR certified Genesys GRC™ Rotorcraft Autopilot & Stability Augmentation System (SAS).

The comprehensive, Level A certified IDU-450 weighs only 4.5 lbs. (2 kg) while offering high-resolution LCD glass, 3D Synthetic Vision, Highway-In-The-Sky (HITS), Enhanced HTAWS, Integrated FMS, Hover Vector and more. The avionics suite features the Genesys GRC Rotorcraft Autopilot, allowing operators to fly IFR in single or dual pilot operations. Due to the Genesys lightweight avionics suite, operators are able to utilize increased payloads and equipment flexibility on each EC-145e.

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FLIGHT DECK MODERNIZATION FOR TODAY'S AND TOMORROW'S MISSIONS

GLASS EFIS UPGRADE - IDU-450 DISPLAYS

Lightest, most comprehensive, integrated Electronic Flight Instrument System enhances safety, reduces pilot workload, and increases mission flexibilty.

Features include:

- Redundant ADAHRS attitude source (replaces legacy attitude sensors)
- Redundant GPS/SBAS receivers
- Dual NAV/COMM radios
- Integrated radio/audio management
- Mode S ADS-B compliant transponder
- Weather radar control and display
- Built-in support/interfaces for FLIR, Satcom, DF, HF, UHF, TACAN, Datalink, SELCAL, tactical radios, etc.

AUTOPILOT UPGRADE

Delivers safety and workload reduction benefits with fully coupled IFR approved autopilot and stability augmentation in a compact lightweight package.

Features include:

- Lightweight, weighs less than 30 pounds (14 kg)
- Dramatically reduced pilot workload
- Safer, more confident command, even under demanding conditions
- Autopilot fully-coupled to FMS, GPS, and navigation radios
- Designed for three-axis (pitch, roll and yaw) autopilot configuration for IFR use.

NAV/COMM RADIO UPGRADE - GDR*

Optionally, a Nav/Comm radio can be included. 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.

GDR lowers weight, increases reliability, reduces cost, and increases mission readiness.

In addition, the Genesys Control Panel (GCP™) would be paired with the GDR to provide necessary Nav/Comm operation and control.

*this option would require an STC completion before installation.

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