Integrated Avionics System

Features

- Large format 10.4", high-quality AMLCD Flat Panel Display
- Integrates as many as 150 instruments and indicators
- State-of-the-art microprocessors and electronics
- Open architecture
- Integration with multiple aircraft systems
- Primary Flight, Engine Instruments, MFD
- Round dial IAS and Baro Alt.
- EGPWS, TCAS, Video, Wx, GPS route map
- Approach to Hover, Doppler Hover modes
- Systems, Configuration, checklists pages
- NVG on the fly (switch)
- Sunlight readable
- Extreme Low Light Capability
- Targeting graphics overlay video
- Configurable interface

Interfaces

Architecture designed to enable the greatest possible choice for aircraft configurations

- Dual AHRS or INS/IRS
- Dual Engine Electronic Controllers (EEC)
- Single or Dual RAD ALT
- Single or Dual selectable FMS
- EGPWS
- FLIR, VCR, and Map Video
- Buffered Video Output for HUD
- ARINC 708 Weather Radar
- Remote Control Panel
- Flight Data Recorder
- Single or Dual VOR, DME
- Dual Air Data
- ADF and DF
- DAU interface
- TACAN
- Doppler Radar
- Digital Clock
- Joystick
- AFCS

Interface with DAU (Dual Channel)

- Engine Instruments Sensors
- Electrical systems
- Fuel Systems
- Master Caution/Warning
- Aircraft ICS

Description

The NEOAV 2000 IAS (Integrated Avionics System) series is the product of 15 years leadership in advanced cockpit LCD display technologies. Designed to grow with the increasing information needs of aircraft in the digital age, the IAS system consists of up to four programmable self-contained 6" x 8" color active matrix liquid crystal displays (AMLCD), a single Course/ Heading Panel and a remote Data Acquisition Unit (DAU). The system combines all of the information available in primary and multi-function displays along with composite format capabilities. The IAS is the first certified system to integrate EFIS, IIDS, video and data concentrators to improve management of aircraft navigation and mission data. Depending upon the platform requirement, users may even select a single display unit for EFIS applications, offering redundancy and flexibility.

Advantages of the NEOAV IAS include increased reliability, modularity of design,and lower weight and power requirements. This increased reliability combinedwith Rogerson Kratos' worldwide customer support capabilities make the NEOAV IAS system a smart choice for operators seeking the highest performance, flexibility and reliability.

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ROGERSON KRATOS
Displays Flight Intelligence

Integrated Avionics System

LEADING PARTICULARS

Weight	Less than 18 lbs./LRU
Power	28 VDC
Display	Color active matrix LCD
Aircraft Interface	Digital/Analog
Maintenance	Full-time BITE
Temperature	Operating -45°C to +70°C
Storage	-55°C to +85°C`

RELIABILITY

- 16,000+ hours system MTBF

CERTIFICATION STANDARDS

- Environmental and EMI: Do-160D
- Software: Do-178B level A&B

HARDWARE

- Signal Processing
  - Embedded microprocessors, microcontrollers,
  - DSPs - Intel
  - Video - Graphics Engines, moving data displays
  - Memory Technologies - SDRAM, DRAM,
  - Flash, ROM, memory management
- I/O Interfaces
  - Digital serial/parallel busses - ARINC 429, ARINC 453, ARINC 717, RS232, RS422.
  - Analog - synchros, AC/DC, Discretes
  - Video (Composite, S-video & RGB)

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