



Primus® Epic 2.0
Avionics System

The Advanced Flight Deck for the Dornier Seastar

The Honeywell Primus® Epic 2.0 Avionics System has been tailored for single and dual pilot cockpit to enhance safety and operability.

Primus® Epic 2.0's SmartView™ Synthetic Vision System digital charts and maps, coupled vertical navigation, and graphical flight planning provide exceptional safety and situational awareness.



Primus Epic 2.0 includes:

- Two primary flight displays featuring crystal-clear, high-resolution displays and wide viewing capability allowing cross-cockpit scanning. Maximizes aircraft availability and dispatch.
- Integration of aircraft systems, safety sensors and navigation information to decrease pilot workload and improve safety through enhanced situational awareness.
- Increased reliability using advanced design techniques, ruggedization and solid state sensors for improved dispatchability and amphibious operations.
- Emerging Communication Navigation Surveillance/Air Traffic management (CNS/ATM) operational and environmental requirements.
- A flexible architecture allows easy integration of hardware and software as new technology comes available.
- Compliance with all current worldwide mandates.

Additional Features

Display Enhancements

- Honeywell's SmartView™ Synthetic Vision System
- INAV™
- Digital charts and maps

Hazard Avoidance and Detection Systems

- Traffic/terrain surveillance systems
 - TCAS II
 - ADS-B Out
 - Class A Terrain Awareness Warning System (TAWS) – SmartRunway™/SmartLanding™
- Weather radar system
- XM® weather
- Digital radio altimeter

Multi-Sensor Required Navigation Performance (RNP) Capabilities

- Augments GPS-only performance
- Improved obstacle clearance
- Lower landing minimums
- More "fly direct to" capability
- Reduced pilot workload

Operation and Maintenance

- Flight data and cockpit voice recorders
- Emergency locator transmitter (ELT)
- Central aircraft maintenance system

Flexible Architecture/ Cockpit Layout

- Four displays
- KDU 1080

Radios

- KTR 2280 multi-mode digital radio (MMDR)
- KXP 2290 Mode "S" diversity transponder
- KGS 200 GPS receiver (WAAS)

Air Data System

- AZ-200 air data module

Attitude Heading Reference System

- AH-1000 AHRS

Future Air Traffic Management Capabilities

- ADS-B
- RNP
- PM-CPDLC

XM is a registered trademark of XM Weather.

Display System

As aircraft navigation and airspace operations become more demanding and complex, the Primus® Epic 2.0's advanced pilot interface greatly simplifies flying by optimizing aircraft information based upon the pilot's specific needs during a particular phase of flight.

Features within the windows include:

- Multifunction data access
- Drop-down menus
- Menu tabs
- Dialog boxes

The primary flight displays support SmartView™

Synthetic Vision –

with advanced symbology, including:

- 3-D terrain
- Approach guidance
- Enroute
- Terrain alerting
- Visual runway

The multifunction displays support:

- Interactive Navigation (INAV™) graphical flight planning
- Pilot-entered waypoints on INAV
- Digital charts and maps
- Radio tuning
- Synoptics

Modular Avionics Unit (MAU)

The MAU is a cabinet containing various field-removable modules and integrates the following products or functions:

- Automatic Flight Control System
- Flight management system
- Communications management
- Electronic display system
- Engine indication
- Crew alerting system
- Aural warning computer
- Electronic checklist system (optional)
- Input/output hardware and software
- Avionics maintenance computer

Flight Management System

- Comprehensive navigation database
- Graphical INAV and flight planning
- Primary and secondary flight plans
 - 100 waypoints per flight plan
 - 1000 stored pilot defined waypoints
 - 3000 stored flight plans

- Precision and non-precision approaches
- SID/STAR procedures
- Wide Area Augmentation System (WAAS)
- Full complement of RNAV approaches
 - RNP
 - LNAV/VNAV
 - LNAV
 - LPV
- Steep approach and landing
- Vertical glide path (VGP) mode
- Vertical navigation (VNAV)
- Direct-To function
- Automatic leg transitions
- Automatic bank angle limit
- Parallel offset
- Weather alternate
- Mass storage module
- PC flight planning tool

Automatic Flight Control System (ACFS)

- Autopilot (including automatic pitch trim)
- Yaw damper with turn coordination
- Flight director guidance
- Coupled vertical navigation



Why Honeywell?

- Industry leader in integrated avionics systems
- Broadest range of avionics products and services
- Proven designs with high reliability
- Global service and support network

Global Customer Support

Honeywell's avionics are based on proven technology providing exceptionally high reliability and simplified maintenance. To help ensure optimal operation conditions, Honeywell provides comprehensive installation consultation and support tailored to the unique needs of each operator. Additionally, our product support services include regularly scheduled maintenance and pilot training courses and support documentation.

When service is needed, our customer engineers and service centers are strategically located around the world to provide efficient, responsive support. Honeywell remains unsurpassed in the scope and variety of services, which range from SPEX exchange of line replaceable units to personalized service contract designed to fit the resources and circumstances of every operation regardless of size or business nature.

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