



Primus Epic Control Display System/Retrofit (CDS/R)

Honeywell's Primus Epic Control Display System/Retrofit (CDS/R) has all the features and functionality you need to equip your flight deck with a flexible and highly integrated avionics suite.



# Primus Epic® Control Display System/Retrofit

The Primus Epic CDS/R is a system capable of integrating with your existing equipment, whether it's Honeywell or other manufacturers, for an economical, operationally advanced system that is so flexible you can easily update your aircraft to meet future FAA mandates.

Primus Epic CDS/R offers substantial reductions in weight, wire count and power when compared to a typically equipped electromechanical or cathode ray tube (CRT)-based system.

## Available display options

Primus Epic CDS/R has several available options designed specifically to enhance the situational awareness capabilities CDS/R offers to your aircraft:

*Jeppesen charts\**: Electronic Jeppesen charts and maps are displayed on large, Active Matrix Liquid Crystal Display (AMLCD) displays. The Jeppesen terminal charts include: airport, departure, arrival, approach, noise, NOTAMs, and airspace charts. Displayed chart can be split to show the header, profile, or minima information in a separate window. Additionally, each window can be independently panned and zoomed for further display flexibility.

*XM® Graphical uplink weather\**: This regionalized weather system offers operators increased safety through enroute flight optimization. It's a real-time advanced flight deck weather system that enhances weather avoidance and diversion capability.

## Future enhancements

Primus Epic CDS/R is designed for growth so when your needs and requirements change, your flight deck can too.

*Terrain and advanced map display*: Terrain and additional visual reference aids provide increased situational awareness of airspace, airways, intersections and geo-political boundaries.

*SmartView™ Synthetic Vision System*: Honeywell's award-winning synthetic vision system combines terrain data and head-up display technology to provide pilots an ambient, natural and continuous view of their flight path and terrain on the primary flight display.

## SYSTEM BENEFITS

### Designed for improved safety:

- Enhances situational awareness
- Enables strategic route planning
- Maintains use of enhanced ground proximity warning system (EGPWS) and other critical sensor data on multifunction display (MFD) while displaying electronic charts, maps and uplink weather information

### Designed for flexibility and efficiency:

- Scalable system architecture
- Flexible interface design integrates with legacy systems
- Reduces weight, wiring and power requirements
- Multiple display configurations

\* With optional Advanced File Graphics Server (AFGS)

Two DU-1080 LCD configuration: CDS/R's flexible architecture allows a two-display system to have the same basic benefits of enhanced situational awareness and growth capabilities found in a full flight deck system.



Three, DU-1080 LCD configuration: Full flight deck integration of the primary flight displays (PFD) and multifunction displays (MFD). This standard configuration offers the same operational and growth capabilities as today's advanced aircraft.



Four, DU-1080 LCD configuration: Full flight deck integration featuring two PFDs and MFDs. Offers increased redundancy and enhanced pilot situational awareness.



Five, DU-1080 LCD configuration: Full flight deck integration featuring two PFDs, two MFDs, and engine instruments (Available on L-382G)



### Designed for easy maintenance:

- Reduces maintenance cost and down time by replacing older electromechanical and CRT instruments and displays
- Increases redundancy to provide better dispatchability
- Increases reliability with the substantial reduction of line replaceable units (LRU)

### SYSTEM FEATURES

#### 8"x10" liquid crystal displays

Honeywell's DU-1080 liquid crystal display unit offers crisp, clear, full-color AMLCD electronic flight instrument displays with excellent contrast ratios that are easy to read—even in bright sunlight.

Today, these reliable displays have logged well over five million flight hours on forward fit and retrofit aircraft platforms.

#### IC-1080 integrated avionics computer

The heart of Primus Epic CDS/R is based on Honeywell's successful and reliable Primus 1000/2000 IC-600 and IC-615 integrated computer. The IC-1080 for the Primus Epic CDS/R system ensures seamless functionality for retrofit aircraft.

## **Advanced File Graphics Server (AFGS)**

The optional AFGS is a computing platform bringing advanced graphics generation capabilities together with mass data storage to allow for the operation of flight display applications.

The AFGS generates custom graphics and performs high speed processing and high capacity data storage as necessary to support the display of electronic charts and maps and uplinked weather information. The server enables the display of approach charts, terminal maps, Standard Instrument Departure (SIDs) charts, Standard Terminal Arrival (STARs) charts and the map application.

The map feature provides a moving map on which uplink weather data is displayed. The AFGS applications are controlled by drop down menu selections shown on the DU-1080 and controlled by the MC-800 multifunction controller.

## **XM® receiver and antenna**

Honeywell's new XM data link weather receiver, brings high speed graphical weather to your CDS/R flight deck with the optional AFGS.

The XM receiver adds a new dimension to Honeywell's line of datalink weather receivers by providing Honeywell's WINN, Honeywell's Weather Information Network any altitude, including on the ground, anywhere in the continental United States.

## **Options to round out your aircraft**

Honeywell offers many options that you can choose from to upgrade your flight deck:

- FMZ-2000/CD-820 Flight management system (optional integrated GPS)
- CAS 67/66 Traffic collision avoidance system (TCAS)
- Mark V/VII/VIII Enhanced ground proximity warning system (EGPWS)
- Runway Awareness and Alerting System (RAAS) (Requires MK V or MK VII EGPWS)
- Reduced vertical separation minimum (RVSM) compatible air data computers (AZ-252/AZ-960/AZ-800/810)
- LASEREF family of inertial reference systems
- Primus II integrated radio system
- Primus 880/660/440 weather radar system
- LSZ-860 lightning sensor system (LSS)
- MCS-7000 Aero I and Aero H+ satellite communications system (SATCOM), or Iridium-based Aircat 1 satellite communications system
- JetMap® II moving map system
- AIS 2000 satellite TV system
- GNSSU Global Positioning System (GPS)
- DL-950 navigation data loader

## **Worldwide customer support**

Honeywell's avionics are based on proven technology providing exceptionally high reliability and simplified maintenance. Our product support services include regularly scheduled maintenance and pilot training courses. When service is needed, our customer support engineers and service centers are located around the world to provide efficient, responsive support.

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