

# Primus Apex™ Integrated Flight Deck



The next generation flight deck for  
the PC-12 NG by Pilatus

**Honeywell**

PC-12 NG owners will appreciate the improvements Pilatus has made to this aircraft. They'll also appreciate the way it makes navigation of the skies more manageable and safer.

If you've just started thinking about purchasing a new PC-12 NG for its versatility and performance, congratulations. You'll be equally pleased with the Primus Apex integrated flight deck by Honeywell.

Specifically designed for the PC-12 NG, Honeywell's Primus Apex offers state-of-the-art capabilities typically only seen on aircraft twice its size and range.

Primus Apex also offers PC-12 NG owners new functions previously available only in the most sophisticated business jets. These functions include integrated crew alerting and graphical flight planning for exceptional safety and improved situational awareness.



# No matter how much you enjoy the ride, you'll appreciate the journey even more.

## The PC-12 NG flight deck pedigree

Derived from technology developed for the Primus Epic® system, Primus Apex delivers growth for new functions through software upgrades instead of the hassle, expense and downtime of adding or replacing hardware.

This unique architecture ensures PC-12 NG owners an extended system lifetime that is easily modified to adapt to the constantly changing airspace environment.

## More than just a pretty picture

Unsurpassed graphical displays in the BMW Designworks cockpit provide the ultimate flight experience for pilots.

- Two primary flight displays (PFDs) and two multifunction displays (MFDs) fit pilots to a "T" with crystal-clear data and wide viewing angles for exceptional cross-cockpit scanning
- Unsurpassed integration of aircraft systems — including safety sensors, navigation and terrain database information for increased safety and situational awareness
- Incorporates the latest Communication Navigation Surveillance/Air Traffic Management (CNS/ATM) operational requirements such as enhanced surveillance



## Efficient, friendly, and reliable

Primus Apex uses innovative technologies developed for Primus Epic.

Working with Pilatus, we have incorporated utilities such as environmental controls, cabin pressure and conditioning, and external video systems. These technologies are integrated and easily monitored through the flight deck for reduced pilot workload.

This unique system architecture reduces the amount of hardware, and enables a more pilot-friendly, more reliable, and efficient cockpit.

## See more clearly and fly safer

Honeywell's Interactive Navigation or INAV™ enables PC-12 NG owners to update and modify flight plans, waypoint lists, and navigation with its patented graphical flight planning capabilities.

Enabled by intuitive controller pilot interfaces, INAV merges navigation, weather, terrain and traffic data onto a single display and layers key information for unmatched situational awareness without the clutter.



Interactive Navigation INAV™



Systems Window

## Room to grow

The Next Generation PC-12 NG will serve you for years. As requirements change, new functions are incorporated through Primus Apex's unique system architecture:

- Paperless charts and maps
- Integrated Primary Flight Display (IPFD), Honeywell's synthetic vision system (SVS)
- ILS performance beyond CAT I
- ADS-B growth capabilities

## There's more

Along with the traditional flight deck capabilities and the world-class INAV, Primus Apex offers the following unique features:

### Flight deck

- Up to four displays provide all flight information in an easy-to-read format
- Intuitive graphical interface and wide viewing angles make cross-cockpit scanning a snap
- Easy-to-use workflow-based design reduces pilot workload

### Traffic Collision Avoidance System (TCAS)

- TCAS I provides real-time updates twice per second

### Enhanced Ground Proximity Warning System (EGPWS)

- Class A or B Terrain Awareness Warning System (TAWS) offers high resolution, worldwide terrain database with over 500 million hours of proven field use

### Optimized Flight Management

- Phase of flight management philosophy
- Graphical flight planning integration with INAV interface
- Easily managed by pilot

### Operation and maintenance

- Integrated crew alerting system
- Central aircraft maintenance system

### Primus Apex Options

- RS-170 video input
- Electronic charts and maps
- XM® Weather
- WAAS GPS
- LPV approaches
- Electronic checklist
- Terrain and flight plan vertical profile
- Co-pilot primary flight display
- KMH-980 TCAS I / Class B TAWS
- KTA-970 TCAS I
- Mark VI EGPWS (Class A TAWS — Terrain Awareness Warning System)

## 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 engineers and service centers are located around the world to provide efficient, responsive support.

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