Embraer 170/190: Honeywell innovations help maximize aircraft performance and efficiency

**Primus Epic® Integrated Avionics System**
Superior flight deck functionality and improved situational awareness for enhanced safety and reliability.

**Cockpit Displays**
Range of large format flight and multifunction displays feature state-of-the-art graphics processing with accommodations for future flight deck display functionality.

**Automatic Flight Control Systems**
Integrates flight director, autopilot, autothrottle and other flight guidance systems to provide for CAT IIIa and CAT IIIb autoland capability.

**Enhanced Ground Proximity Warning Systems**
Greatly improves flight safety by reducing the probability of CFIT – controlled flight into terrain/obstacle.

**Aircraft Diagnostic and Maintenance System**
Centralizes fault data collection from avionics and non-avionics subsystems. The central maintenance computer enables maintenance personnel to diagnose faults by correlating flight deck effects to maintenance messages, storing fault records, reporting status of subsystems, and initiating tests.

**Communication, Navigation and Surveillance**

**Flight Management Systems**
Expanded flight planning capabilities to select routes, altitude and timing for shorter flights and lower fuel burn.

**NavCom**
Suite of navigation radios, sensors, receivers and communication equipment improves flight safety by integrating with the automatic flight control systems and EGPWS system.

**Fly-By-Wire Control System**
The next generation FBW flight control system actuates the multifunction spoilers, elevator and rudder.

**Other Honeywell Systems**
- Weather Radar
- HF Communication
- Inertial Reference System
- Global Positioning System
- Communications Management Function
- Radar Altimeter
- Lightning Sensor

Source: Honeywell Internal Materials
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