

PRO LINE FUSION® AVIONICS SYSTEM

**Embraer KC-390: A new generation in military transport,
a new standard in avionics.**



photo courtesy of Embraer

Achieve an enhanced level of situational awareness and operational efficiency with your new flight deck equipped with our Pro Line Fusion® avionics solution.

You'll experience a highly intuitive flight deck with the very best technology available today. Feel confident knowing you can fly anywhere, anytime and more efficiently with a state-of-the-art flight deck that is designed to meet evolving airspace and regulatory requirements. Pro Line Fusion transforms your flight experience.

**Rockwell
Collins**

Building trust every day

Pro Line Fusion® – Information right at your fingertips



photo courtesy of Embraer

With Rockwell Collins' Pro Line Fusion, KC-390 customers can effectively and efficiently perform demanding military missions without compromising reliability while complying with civil mandates. While Pro Line Fusion began as a commercial offering, it has evolved to provide fully integrated military system applications to meet specialized, military only mission demands.

Empowering human interface

Pro Line Fusion's empowering human interface begins with our industry leading 15-inch, NVIS compatible, high-resolution LCD displays. The advanced human machine interface facilitates intuitive "point-and-click" access to flight planning, aircraft performance monitoring and hazard avoidance.

Extensive situational awareness

Our new avionics system gives you the tools you need to enhance your decision making anytime, anywhere – safely. Rockwell Collins' synthetic vision capabilities and graphical flight planning are just a few examples of how we're providing unprecedented levels of situational awareness.

Flexible, adaptable, integration

Our innovative approach to systems integration offers an open architecture that provides the flexibility and growth you need to meet evolving airspace requirements and take advantage of new technologies.

Information enabled

The information you want is right at your fingertips to improve operational efficiencies. Capabilities, such as automated database management, checklists integrated with crew alerting system for more efficiency, integrated ATC data link and graphical weather, combine to improve all phases of your flight.

Standard flight deck features

- › Five 15-inch LCD displays with advanced graphics
- › Night vision compatible
- › Synthetic vision system
- › Additional crew member station
- › Advanced graphical flight planning
- › VHF comm/navigation
- › Dual advanced flight management systems
- › Common human machine interface between civil and military functions
- › TAWS
- › Information management capability
- › On-board maintenance system
- › Dual flight directors
- › Full-flight regime autothrottle
- › Engine indication and crew alerting system
- › Integrated flight information system
- › Integrated traffic surveillance system
- › HF communication

* Some items presented are not included in KC-390 baseline version and can be purchased as options

Windowed displays help access the full power of the system

Synthetic vision systems

Now that you have Rockwell Collins' synthetic vision system, you are equipped with better situational awareness in low visibility conditions and unfamiliar territory. Synthetic vision technology integrates the terrain database with real-time flight information allowing flight crews to operate in reduced visibility with improved situational awareness and safety. Pro Line Fusion also supports enhanced vision, where infrared imagery is overlaid on the display system.

Advanced flight planning

At Rockwell Collins, we've taken flight management to a whole new level of efficiency and simplicity through our graphical user interface. Your flight plans can be easily created and modified graphically now that you have a fully integrated control display unit (ICDU) and graphical flight planning capability.

Our state-of-the-art FMS user interface organizes the data by phase of flight, significantly reducing the number of CDU pages and providing an intuitive user interface. Through the use of interactive map symbols, you can "point and click" directly on an electronic display for unprecedented ease of use. The interactive dialog boxes and text windows further optimize data presentation.

Common human machine interface

The ability to access critical flight information at a moment's notice is essential in many situations. With our night vision compatible cockpit and common human machine interface, pilots are able to seamlessly integrate military and civil functions. Whether it's diverting the aircraft around weather, monitoring refueling operations, or computing their air release point for a cargo drop, Pro Line Fusion provides pilots an easy-to-use interface that can be used and understood on day one.

Aircraft systems

It is important for a pilot to be able to monitor all of his or her aircraft systems data easily. Our smart checklists allow the pilot to easily step through normal and emergency procedures while maintaining an eyes-forward view. Advanced synoptics allow pilots to monitor aircraft systems in a central location in an easy-to-understand format.

Traffic surveillance system

Open airspace is shrinking. That's why the capabilities of our surveillance systems keep expanding. Our traffic surveillance system addresses the needs of the changing airspace environment while delivering reduced size, weight, power consumption and wiring. It is a highly integrated system combining the Traffic Alert Collision Avoidance System (TCAS II) and Mode S transponder functions, as well as ADS-B (out) capabilities and emerging ADS-B (in) applications, into a single unit. All of this information can be integrated into Cockpit Display of Traffic Information (CDTI) and associated emerging applications.



Building trust every day.

Rockwell Collins delivers smart communication and aviation electronic solutions to customers worldwide. Backed by a global network of service and support, we stand committed to putting technology and practical innovation to work for you whenever and wherever you need us. In this way, working together, we build trust. Every day.

For more information, contact:

Rockwell Collins
400 Collins Road NE
Cedar Rapids, Iowa 52498
800.321.2223
319.295.5100
Fax: 319.378.1172
email: learnmore@rockwellcollins.com
www.rockwellcollins.com

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