

ROCKWELL COLLINS PRO LINE FUSION™ AVIONICS

Fly at the speed of ingenuity on your Learjet 85™



Image courtesy of Bombardier.

Experience the most advanced avionics system ever offered on a mid-size jet. Achieve a higher level of situational awareness and operational efficiency. When you fly with Pro Line Fusion, superior information comes standard.

Achieve an enhanced level of situational awareness and operational efficiency with our Pro Line Fusion™ avionics solution for your Learjet 85™ by Bombardier™. You'll experience a highly intuitive flight deck with the very best technology available today, while your passengers enjoy a smoother ride. You'll feel confident knowing you can fly anywhere, anytime and more efficiently with your 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



Information – right at your fingertips

Your success is dependent on your ability to effectively manage an ever increasing flow of information. Whether it's improving operational efficiencies, enhancing your passenger's experience or providing a heightened level of situational awareness, our goal is to understand your requirements and deliver solutions that meet your needs. The Pro Line Fusion avionics system builds upon our proven Pro Line heritage and fuses it with innovative technologies to transform your flight experience. Now you have everything you need, when you want it, right at your fingertips.



Image courtesy of Bombardier.

Pro Line Fusion

Flexible, adaptable, integration

Our innovative approach to systems integration provides the flexibility and growth you need to meet evolving airspace requirements.

Empowering human interface

Pro Line Fusion's empowering human interface allows you to access the full capabilities of the avionics system. Three high-resolution 15-inch displays, the largest the industry has to offer, provide graphically rich formats with improved reversion capability and ample growth for even more features. The advanced human machine interface facilitates intuitive "point-and-click" access to flight planning, aircraft performance monitoring and hazard avoidance.

Extensive situational awareness

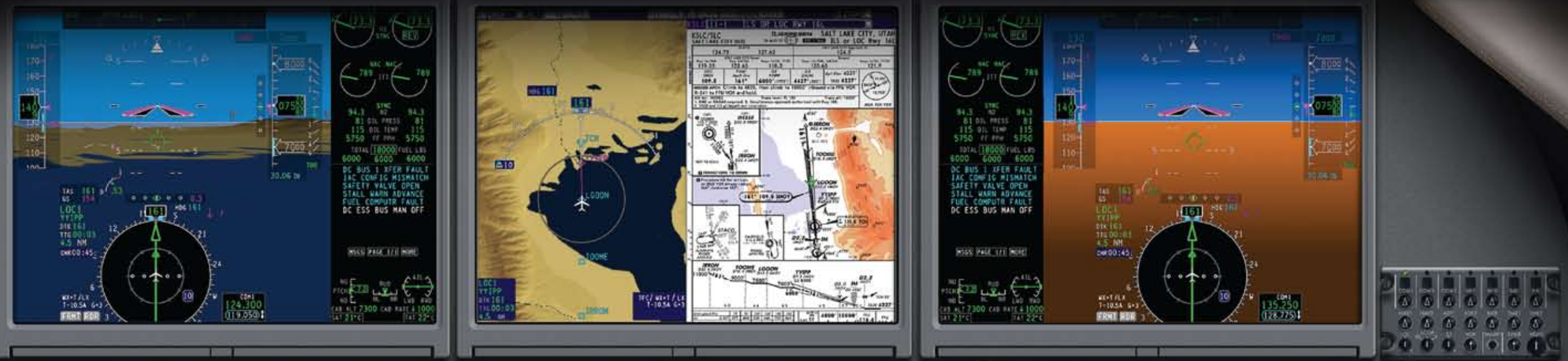
Our new avionics system gives you the tools you need to enhance your decision making anytime, anywhere – safely. Rockwell Collins' integration of synthetic vision capabilities, Integrated Flight Information System (IFIS) with electronic charts, and our award winning MultiScan™ Weather Radar are just a few examples of how we're providing unprecedented levels of situational awareness.

Information enabled

We're giving you the right information at the right time to improve operational efficiencies. Examples include automated database management, checklists integrated with crew alerting system for more efficiency, and optional wireless connectivity to ease all phases of your flight.

Smart avionics for your Learjet 85 flight deck

Three large 15-inch adaptive flight displays combine with dual Rockwell Collins flight management systems to enhance flight deck information management without adding workload.



Pro Line Fusion for the Learjet 85 by Bombardier delivers key technological advancements and incorporates information management technologies that ease many maintenance and flight operational tasks, improving overall efficiency. All of these elements make it easier for pilots to focus on flying the aircraft while providing a smoother ride for passengers and delivering improved efficiency operations.

Standard features include

- ▶ Three 15-inch high-resolution LCD displays
- ▶ Synthetic vision system
- ▶ Point-and-click access to flight planning, aircraft performance monitoring and hazard avoidance
- ▶ Electronic checklists linked to the Engine Indication and Crew Alerting Systems (EICAS)
- ▶ Integrated electronic circuit breaker control
- ▶ Dual advanced flight management system
- ▶ Surface management system
- ▶ Dual Integrated Flight Information Systems
 - Electronic charts
- ▶ Dual VHF Comm
- ▶ On-board maintenance system
- ▶ Open systems architecture

Synthetic vision system

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 our terrain database with real-time flight information allowing flight crews to operate in reduced visibility with improved situational awareness and safety.

Integrated Flight Information System

The ability to access critical flight information at a moment's notice is essential in many situations. With our industry leading Integrated Flight Information System (IFIS), pilots have real-time access to a virtually endless array of information in easy to understand formats. Now, information that would otherwise only be shown on multiple sources such as navigation charts, optional graphical weather, or even checklists and aircraft manuals in printed books – can be presented on the aircraft's displays with a consistent integrated user interface.

MultiScan Weather Radar

A safer, smoother and more efficient flight can be yours with our optional MultiScan Weather Radar for the Learjet 85 by Bombardier. The MultiScan Weather Radar system offers an innovative approach to detecting, analyzing and displaying weather hazards from the nose of the aircraft to 300 n.m. ahead. The system offers flight crews hands-free, fully automatic operation allowing the flight crew to concentrate on weather avoidance rather than weather depiction and interpretation. MultiScan's patented automatic Geographic Weather Correlation and Predictive Overflight™ Protection further enhance hazard detection capabilities providing the decision aides to help flight crews determine whether to smoothly fly over or around storms.

Advanced flight management made even simpler

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 and graphical flight planning capability. Our user interface organizes the data by phase of flight, significantly reducing the number of flight management information pages and providing a more 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 optimize data presentation.



Planned growth

In addition to features available at entry into service, Bombardier and Rockwell Collins have jointly planned a series of technology updates as the Air Traffic Control infrastructure evolves. These include advanced display and guidance features based on emerging CNS/ATM technologies.

Enhance your Learjet 85 flight deck even more

Multiscan Weather Radar

A safer, smoother and more efficient flight can be yours with our MultiScan Weather Radar. The MultiScan Weather Radar system offers an innovative approach to detecting, analyzing and displaying weather hazards from the nose of the aircraft to 300 n.m. ahead. The system offers flight crews hands free, fully automatic operation allowing the pilots to concentrate on weather avoidance rather than weather depiction and interpretation. MultiScan's patented automatic Geographic Weather Correlation and Predictive Overflight Protection further enhance hazard detection capabilities providing the decision aides to help flight crews determine whether to smoothly fly over or around storms. Flight crews are also able to detect turbulence out to 40 n.m.

XM or Universal Weather

Pilots have a powerful new tool to help them make strategic decisions about their flight plans. With our IFIS, we're offering two distinct weather service options, XM Satellite Weather and Universal Weather services. XM Satellite Weather is a continuous broadcast weather service offered in the Continental United States (CONUS). Universal Weather is a data link service offered worldwide.

Second IFIS with Electronic Terminal Charts

This option adds a layer of redundancy to support seamless and consistent flight deck procedures when operating without paper terminal charts.

Electronic Document Reader

Now you can take all of your paper documents with you in electronic form. The Electronic Document Reader facilitates the presentation of documents, such as flight manuals or maintenance manuals, on the aircraft's main displays.

Enhanced Map Overlays

This option adds functionality to our IFIS to increase situational awareness through the addition of map overlays including high- and low-altitude airways, restricted and controlled airspace, and geopolitical information including state and international boundaries, rivers, lakes and ocean coastlines.

Third VHF with Data Link

VHF data link supports optional services such as Universal Weather and aircraft operational communications. The system reduces crew workload by digitally transferring mission information between the aircraft, information service providers and air traffic control. The option adds a third VHF-4000 communications transceiver, increasing the capabilities of the data link capable Radio Interface Unit included in the baseline equipment set.

3-D Flight Plan Map

3-D Flight Plan Map is an innovative three-dimensional graphical representation of the FMS flight plan and performance predicted flight path. Real-time display of the aircraft's present position both laterally and vertically with respect to the 3-D flight plan improves situational awareness. Pilots can easily adjust the viewing angle via a manual control, and can plan collaboratively for departures and arrivals by stepping through a three-dimensional preview of the flight plan.

Single or Dual HF communications system

The HF-9000 transceiver enables long-range communications in remote and oceanic locations. A dual installation provides redundancy for enhanced dispatch capability.

WAAS LPV Approach Capability

With LPV you have increased flexibility to land more places, more often by flying RNAV approaches using the Wide Area Augmentation System (WAAS) and localizer performance with vertical guidance (LPV). These approaches utilize the increased availability and integrity of GPS navigation made possible by WAAS to provide vertically guided approaches to minimums as low as 200 feet and ½ mile visibility.

Worldwide service and support from a trusted source

Total service solutions you can count on. From initial delivery and throughout your Learjet 85's life cycle, we are here with comprehensive service and support solutions. Our worldwide support network offers life cycle support solutions from options including performance-based maintenance and repairs, engineered solutions, rental exchange, training and simulation solutions; all backed by the best turnaround times in the industry. Rockwell Collins delivers reliable solutions, anywhere, anytime – every time.

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.

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