

# SMARTDECK®

Integrated Flight Controls & Display System



**L3** communications  
Avionics Systems

## IMAGINE AN AVIONICS SYSTEM SO INTUITIVE AND INTEGRATED THAT IT HELPS THE PILOT FLY SMARTER.

That's what we did as we envisioned an integrated flight control and display system that would give pilots unprecedented situational awareness to make flying safer and easier. We also looked toward the future and visualized a system that would grow with technology and allow for enhancements that would make

this system the smartest choice, both now and in the future. These visions have been brought to life by a team of dedicated engineers, pilots and safety specialists who have created an integrated, intuitive and sophisticated full cockpit system: The SmartDeck® Integrated Flight Controls & Display System.



### PICTURE PERFECT

The SmartDeck Synthetic Vision (SynVis™) feature helps augment the pilot's situational awareness by providing critical flight details and helpful navigation aids.



### UNMATCHED CLARITY

The level of detail and planning that has gone into SmartDeck SynVis™ is unmatched. Geographic features are intuitive, dynamic, clear and logical.



### OBSTACLES & TERRAIN

Obstacles are represented as realistic 3D images while SmartDeck's TAWS driven color coding identifies potential CFIT situations in yellow and red.



## THE SYSTEM YOU ASKED FOR IS FINALLY HERE

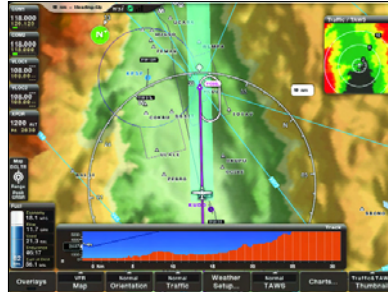
The integrated flight deck that pilots worldwide have been asking for is finally here. SmartDeck's user interface increases the speed and accuracy of flight management and significantly streamlines the flying process. While other systems may offer similar features, SmartDeck delivers all the information in

a clearer and more intuitive manner. Our 3-clicks-or-less philosophy remains faithful throughout the design of the system. From moving map functions to communications to Synthetic Vision, SmartDeck makes flying safer, easier and more enjoyable.



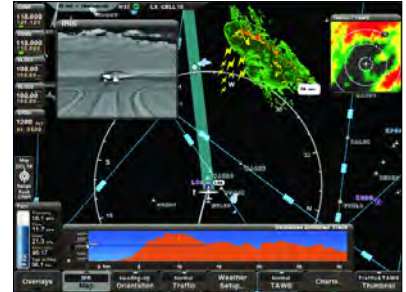
### JEPPESON CHARTVIEW

Paper charts are a thing of the past with the integration of ChartView and SmartDeck. Every detail of almost any destination is just a click away on your MFD.



### YOU FLY, WE'LL NAVIGATE

The WAAS capable GPS and digital S-TEC autopilot provides automated lateral and vertical guidance and maintains precise holds - freeing the pilot to focus on primary flight functions.



### SEE THE UNSEEN

Regardless of conditions outside the cockpit, datalink weather and Stormscope® lightning provide the complete weather picture as the IRIS™ Infrared Imaging System turns night into day.

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## FLIGHT PLANNING MODE

A simple push of the flight planning button accesses a worldwide database of airports, nav aids, waypoints and other vital flight planning data. The flight planning page consists of 1) Active Flight Plan, 2) Flight Plan Catalog and 3) Vertical Advisory. Pilots are able to create, edit and copy flight plans through the CCU and load the information directly onto the SmartDeck MFD. Procedures can be inserted for approaches, holds, arrivals and departures. Additionally, the WAAS capabilities of the system enables pilots to easily shoot LPV approaches to more than 600 non-ILS equipped airports.



## COMMUNICATIONS MODE

The active frequency currently tuned on each comm and nav radio is shown near the top of the COM1, COM2, VLOC1 and VLOC2 radio windows. For the comm radios, the station ID and name are displayed if selected from the database. The nav radios receive the Morse code IDs from the tuned VLOC stations and decodes them into alphanumeric station IDs. An integrated transponder (XPDR) rounds out the communications suite by displaying transponder code, reply symbol and mode of operation. Inputs to any of the communications windows can be made quickly via knob or numeric keypad.



## AUDIO PANEL

The audio panel functions as a selector for the two VHF coms, a dedicated cellular telephone interface, a 6-place stereo intercom with dual independent music inputs and an internal marker beacon receiver. The patented PS Engineering IntelliVox<sup>®</sup> automatic intercom squelch system eliminates all of the traditional knobs or push buttons. Using digital processing, the system separates voice from airplane noise, making conversations seamless.



## INTEGRATED AUTOPILOT

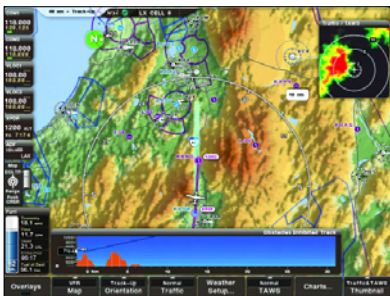
SmartDeck integrates seamlessly with the S-TEC Intelliflight™ 1950 Digital Flight Control System through all phases of flight and includes fully coupled approaches and automatic altitude captures. Once you choose AP, FD, or AP and FD modes, use the other mode select buttons to choose what kind of guidance you want the autopilot to provide.



## SMARTER BY DESIGN - BETTER BY EXPERIENCE.

Throughout the design process, our design team continually tested form and function with active pilots and a team of human factors specialists. The control buttons, display settings and visual cues were all carefully developed as part of our intuitive design philosophy. Human factors testing put pilots in front of the system

throughout the process to ensure the finished product remained consistent to the vision of a smarter, friendlier, more intuitive flight deck. The SmartDeck system presents a wealth of information, without overwhelming the pilot. The SmartDeck cockpit is well organized and considerate of ergonomics as well as economics.



### AIRSPACE DEFINED

Remove the uncertainty of restricted flight zones by populating the MFD with up-to-date airspace information. Updates are easily uploaded through the data card as they are published.



### CUSTOMIZED VIEWS

Preferences for the SmartDeck system are easily controlled on both displays with minimal input. The declutter knob also aids in quickly removing or adding data according to pilot preference.



### MOVING MAP CUE CARDS

Access information about nav aids, airports and map symbols using the Crosshair Cursor. It's just another step toward making flying safer and boosting pilot confidence.

## PASSION AND COMMITMENT

Aviation is not just our business, it's our passion. In fact, many of us are active pilots. We are committed to bringing cost-effective and advanced technologies to the industry and to making flying safer and easier for both current and new pilots. The SmartDeck Integrated Flight Controls and Display System is part of that commitment. We're proud to stand behind the industry's smartest system and excited to play a part in advancing the future of aviation.



## EXPERTS IN FLIGHT SAFETY AVIONICS AND INTEGRATED SYSTEMS

L-3 Avionics Systems has been manufacturing flight safety avionics since 1962, when it was founded as the avionics division of Learjet. Since then, the company has operated under a few different owners and names, including Jet Electronics & Technology (J.E.T.) and BF Goodrich Avionics Systems. In 2003, Avionics Systems was purchased by L-3, a prime contractor in aircraft modernization and maintenance, C<sup>3</sup>ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

Within the Aircraft Modernization, Operations and Maintenance and Products Segment of L-3, Avionics Systems and several other divisions produce high technology products that are forerunners in the aviation and aerospace industries. This network of industry leaders provides valuable resources for developing and integrating new and future products.

Today, L-3 Avionics Systems provides a wide array of integrated avionics systems, including weather, traffic and terrain avoidance systems, solid state systems, electro-mechanical gyros, autopilot products, navigation products and display systems, in addition to the smartest flight system available - **SmartDeck**.

For the latest system developments  
and screen images, please visit  
[www.SmartDeck.com](http://www.SmartDeck.com).



**communications**  
**Avionics Systems**

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**NAV GPS** **AP** **VS ALT**  
 RPM 2500 PWR 85% MAN PRESS 27.4 in  
 Oil PRESS 55 psl Oil TEMP 180 °F Fuel Flow 21.3 gph  
 168 kts  
 115.4  
 10000 ft 300 fpm  
 78.40  
 29.92 in  
 315°  
 ID L35 BRG 306° DIST 53.2 nm  
 ENR KMAE → L35  
 DTK 306° BRG 306° XTE <0.00nm  
 CDI 0.00 nm DIST 53.2nm ETE 0:28  
 MAN SEQ  
 GPS 168 kts 330° 29.92 in 10000 ft 300 fpm  
 BRG IAS HDG BARO ALT VS

MAP  
 FPL  
 NRST  
 AUX  
 RADIO  
 BACK

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40 nm - North-Up  
 COM 1 119.700 118.250  
 COM 2 119.650 122.725  
 VLOC 1 115.50 116.20  
 VLOC 2 114.20 114.00  
 ADF ADF  
 0397  
 XPDR R 4346 ALT PA 7800  
 Map DCLTR  
 Range Push Path  
 Fuel Economy 18.1 MPG Flow 21.3 GPH Used 21.3 GAL Endurance 03:19 Fuel at Dest 50.4 GAL  
 Obstacles Inhibited Track  
 7800 ft  
 VFR North-Up Normal Strike 12 Normal TAWS Charts... Traffic & TAWS Thumbnail

AP  
 HDG NAV APR IAS VS ALT  
 UP DOWN  
 COM1 VOL PUSH SOL  
 COM2 VOL  
 MENU CAWS  
 OAT 3 °C 37 °F UTC 22:00 PDT 03:00 PM  
 Radios  
 COM 1 119.700 TWR PALM SPRINGS Flight Plan  
 118.250 ATIS KPSP  
 COM 2 119.650 APR/DEP SOCAL Nearest  
 122.725 CTAF L35  
 VLOC 1 115.50 PSP PALM SPRINGS Timer  
 116.20 TRM THERMAL  
 VLOC 2 114.20 TNP TWENTYNINE PA IDENT  
 114.00 JLI JULIAN  
 XPDR 4346 ALT PA 7800 Squawk PREV (1200)  
 MHz kHz 118 500  
 Push Swap  
 BACK CLR  
 1 2 3 4 5  
 6 7 8 9 0

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