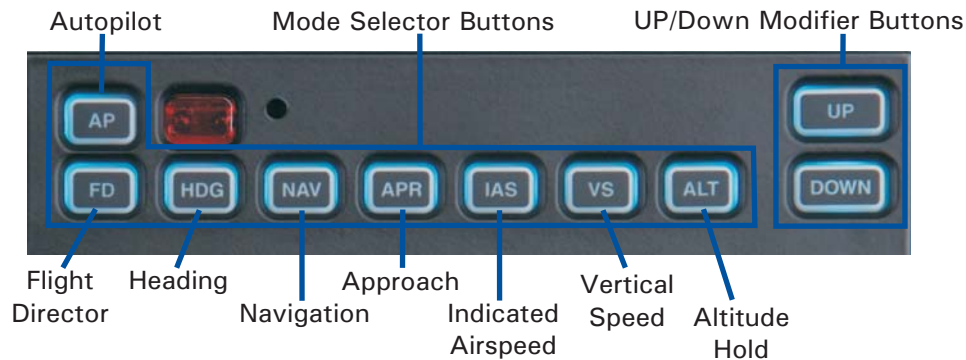


## Digital Flight Control System

# IntelliFlight® 1950

S-TEC's new IntelliFlight® 1950 Digital Flight Control System (DFCS) is the perfect complement to L-3 Avionics Systems' new SmartDeck® and the goal to integrating cockpit displays with communications, navigation and the digital flight controls. Together these advanced components provide pilots with a host of capabilities, features and functions that make flying in today's airspace easier, safer and more efficient.

### Autopilot Control Panel



### Integrated

The IntelliFlight 1950 DFCS is a true second-generation digital flight control system. It takes all of the popular features and functions found in other members of S-TEC's IntelliFlight DFCS family of products and presents them in a system that has the flexibility to take full advantage of the SmartDeck's advanced sensors and integrated cockpit displays.

### Safety

The IntelliFlight 1950 DFCS's "managed flight" capability not only reduces overall pilot workload, it also gives flight crews added confidence and security. While the IntelliFlight 1950 DFCS is one of the most advanced autopilots available, it is also one of the easiest to use. Like every S-TEC autopilot, the new IntelliFlight 1950 DFCS is designed around putting you in control of your aircraft through every phase of flight.

### Aircraft Management

At the touch of a button, the IntelliFlight 1950 DFCS will operate directly with the SmartDeck's navigation sensors to deliver a totally integrated flight control system. From "wheels up, to runway in sight," the system will handle the entire programmed flight profile for you. Think of it as the perfect co-pilot.

# Features and Functions



The IntelliFlight 1950 DFCS features all of the capabilities that have made S-TEC products general aviation's most popular and successful line of autopilots. Highlighting the system's advanced capabilities are Indicated Airspeed Hold (IAS Hold) and GPS Steering (GPSS) Mode.

## Indicated Air Speed (IAS) Hold

When the pilot selects the Indicated Airspeed (IAS) Hold function on the SmartDeck, the IntelliFlight 1950 DFCS will automatically maintain the aircraft's pre-selected airspeed during climbs and descents.

## Global Positioning System Steering (GPSS) Mode

S-TEC's GPSS mode integrates the IntelliFlight 1950 DFCS with the SmartDeck's GPS receiver to accept roll steering commands and provide extremely accurate "hands off" GPS navigation. Additionally, by taking commands directly from the SmartDeck's GPS, the GPSS function enables the IntelliFlight 1950 DFCS to precisely fly en route GPS courses, as well as doing an excellent job of precision flying GPS approaches, missed approaches and other phases of flight where the IntelliFlight 1950 DFCS is engaged.

As part of L-3 Avionics System's SmartDeck integrated suite, the IntelliFlight 1950 DFCS will also deliver a variety of other popular S-TEC features and benefits to pilots including Control Wheel Steering, Vertical Speed Control, Flight Director Interface, Altitude Preselect and Autotrim, and much more.

- Heading Preselect & Hold
- Altitude Preselect & Hold w/Autotrim
- Digital Vertical Speed Command
- Yaw Damper
- Course Intercept Capability
- Dual Mode-HDG/NAV & HDG/APR
- VOR/LOC/GS/REV/GPS Course
- NAV Flag Warnings
- PFD Integration
- Flight Director
- Heading Control
- Altitude Preselect
- Vertical Speed Control
- Indicated Airspeed Control
- Autopilot Mode Annunciations
- Voice Annunciations

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