



Avidyne's DFC90 Attitude-Based Digital Autopilot enhances precision of flight and improves safety for your Entegra-equipped Cirrus.

THE DFC90 ATTITUDE-BASED DIGITAL AUTO PILOT

The DFC90 adds the precision of an attitude-based flight control system and Avidyne's innovative, safety-enhancing Envelope Protection capability.

The DFC90 has all the standard vertical and lateral modes of operation of a turbine-class autopilot system, including Flight Director (FD), Altitude Hold (ALT), Airspeed Hold (IAS), Vertical Speed Hold (VS), Heading (HDG), and Navigation (NAV, APPR, LOC/GS, GPSS). The DFC90 also includes Avidyne's "Straight & Level" button which overrides all autopilot modes and levels the aircraft in both pitch and roll for an added measure of safety.

ENVELOPE PROTECTION

For envelope protection, available lift and speed margin are calculated constantly in the background whenever any mode, including Flight Director modes, are in operation. As the aircraft approaches stall, the autopilot acts unobtrusively to gradually reduce maximum bank and Vertical Speed just enough to keep the wing flying, while annunciating the condition to the pilot. As a result, departure from controlled flight is prevented with the least obtrusive impact on achieving mission level objectives like navigation, climb or approach. Overspeed is handled similarly, with anticipation and minimal but effective inputs. In Flight Director modes, all these actions appear as guidance cues with corrections blended into the "V-bar" commands.

SPECIFICATIONS

Dimensions

- Width: 6.25" (159mm)
- Height: 1.5" (38mm)
- Depth: 10.6" (279mm)

Weight

- 2.02 lbs (0.92 kg)

The DFC90 is a slide-in replacement for existing rate-based STEC 55X flight computers.

Upgrading to the DFC90 only requires that your existing EXP5000 PFD be updated to Release 8.0 (hardware & software)—no expensive wiring changes are required. Contact Avidyne or your local Avidyne-authorized distributor for more information.

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Avionics installations require special skills and test equipment. Avidyne's limited warranty is valid only for equipment installed by an Authorized Avidyne Distributor. Avidyne reserves the right to make changes to product specifications and design features without notice.

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