

# 1000 VFR PFD



The revolutionary Evolution 1000 VFR PFD is the most affordable, upgradable and easily installed Electronic Flight Instrument System (EFIS) available for general aviation today.

### Key Features

- Consolidates traditional six-pack instrument information plus CDI into a single display
- Displays winds aloft, OAT, TAS and ground speed
- Navigation display with 360 Compass and ARC modes
- Flight plan overlay with legs, waypoints, curved flight paths<sup>1</sup>, and nearby nav aids
- Integral Air Data Computer and Attitude Heading Reference System (ADAHRS)
- Built-in backup battery and emergency GPS
- Works with your panel's existing avionics
- The unique PFD design slides into existing panel cutouts

### PFD Options

- Analog Converter Unit (ACU) connects to aircraft autopilot for GPS steering<sup>1</sup>
- Evolution Hazard Awareness (EHA) provides weather, lightning and traffic hazards display<sup>2,3,4</sup>
- Automatic Dependent Surveillance-Broadcast (ADS-B)<sup>5</sup>

### PFD Upgrades

- VFR to PRO Software upgrade

<sup>1</sup> With compatible GPS navigators

<sup>2</sup> Requires ARINC 735A compatible traffic system.

<sup>3</sup> Requires Aspen EWR50 Weather Receiver or equivalent.

<sup>4</sup> Requires WX-500 or equivalent.

<sup>5</sup> Requires ADS-B receiver.

Options

Improve flight safety and situational awareness with options and software feature upgrades.

- ➔ ACU
- ➔ ADS-B
- ➔ EHA

**Analog Converter Unit** – converts older analog signals and interfaces to the industry-standard digital ARINC 429 interface and enables connection to aircraft auto pilot for GPS steering functionality\*

**Automatic Dependent Surveillance-Broadcast** – a range of receivers and transceivers to meet the pending ADS-B mandate (2020). Options enable ADS-B weather and traffic hazards to be overlaid on the Navigation Display.

**Evolution Hazard Awareness (EHA)** – enables weather, lightning and traffic hazards to be overlaid on the Navigation Display\*\*

- Lightning Detection (Data Link Weather and Stormscope® WX-500)
- XM NEXRAD Weather Radar
- Traffic

Software Upgrades



VFR + Software Upgrade = PRO

Adds the necessary features for IFR approach/landing, including:

- Glide Slope
- Localizer
- Minimums (decision height)
- Flight Director
- Upgrades the CDI to an HSI in both 360 and ARC modes
- Dual bearing pointers



GENERAL SPECIFICATIONS

Overall Dimensions	3.5"W x 7.0"H x 4.15"D
Weight	2.9 lbs. with Mounting Bracket

OPERATIONAL SPECIFICATIONS

Operating Temperature	-20°C to +55°C
Storage Temperature	-55°C to +85°C
Max Un-Pressurized Operating Altitude	35,000 ft.
Max Pressurized Operating Altitude	55,000 ft.
Max Humidity	95% at 50°C
Input Voltage	+8 to +32 Volts DC
Max Current	2.4 Amps @ 28 VDC; 4.8 Amps @14 VDC
Internal Battery	Minimum Operating Time 30 Minutes

I/O SPECIFICATIONS

ARINC 429	5 Inputs; 1 Output
RS-232	5 Inputs; 3 Outputs
Pitot Static	Quick Connect

REVISED VFR CERTIFICATION SPECIFICATIONS

FAA and EASA Technical Standard Orders	TSO/ETSO, C2D, C3D, C4C, C6D, C8D, C10B, C106, C113
Supplemental Type Certificate (STC)	Approved Model List (AML)
Software	RTCA DO-178B Level C
Environmental	RTCA DO-160E

\*If the optional ACU is part of the initial VFR installation (highly recommended), the PRO upgrade (IFR) is greatly simplified with only a software upgrade required (no need to open the aircraft a second time)  
 \*\*Requires compatible hazard awareness sensors to be installed and configured to the PFD.

The VFR PFD is IFR capable with limitations.



www.aspenavionics.com/vfr