

# EVOLUTION FLIGHT DISPLAY SYSTEM

1000 Pro MAX PFD

## Past. Present. Future. The Evolution Continues.

The award-winning Aspen Evolution™ 1000 Pro MAX Primary Flight Display (PFD) brings the latest generation of display technology and capability to bridge the avionics technology gap and deliver exceptionally easy-to-use, advanced glass panels at the lowest price on the market. With new glass and the latest generation processors, MAX offers a vibrant display with higher reliability and faster refresh rates.

Not only are Aspen displays the most affordable GA glass on the market, your fly-away cost is made even lower because Aspen's patent-pending retrofit technology delivers substantially lower installation costs. There's no need for expensive new panel modifications as our display uniquely retrofits directly into your aircraft's six-pack panel holes. The self-contained unit also doesn't require the installation of heavy remote mount boxes.

The PFD is fully software upgradable, so you can add comprehensive hazard awareness capabilities, Evolution Synthetic Vision, Evolution Angle of Attack, and other new features — all without removing the display from your panel. Evolution also delivers greater flexibility since Aspen flight displays work with the avionics already in your panel, including existing GPS, radios, and traffic sensors, so you don't have to upgrade them until you're ready.



### Key Features

- GPS-aided AHRS in the event of pitot static system failure
- New, vibrant colors with the latest aviation glass
- Higher reliability and faster refresh rates with the latest generation processors
- Audio panel interface
- Airspeed and altitude tapes with altitude alerter (and separate approach minimums alerting)
- Built-in GPS steering<sup>1</sup>
- Full electronic HSI with dual bearing pointers
- Base map with flight plan legs and waypoints, curved flight paths, and nearby nav aids
- Integral Air Data Computer and Attitude Heading Reference System
- Built-in backup battery and emergency GPS
- Backup indicators are eliminated with the installation of Evolution MFD1000 multi-function display
- Altitude intercept based on climb rate
- Font and window enlargement
- Optional Evolution Hazard awareness upgrade<sup>2,3</sup>

<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

# Evolution 1000 Pro MAX PFD Optional Upgrades

## Evolution Synthetic Vision



Evolution Synthetic Vision (SV) presents a real time, computer-generated 3D view of terrain, obstacles, and traffic.\*

- The Integrated Terrain Warning System combines terrain and flight path marker coloring, caution and warning text, and an audio warning signal — a dynamic alerting system to keep you safe in all phases of flight
- Full-time “see and avoid” protection — activating the TWS feature allows alerts to be displayed even when the synthetic vision view is not selected
- Display SV on a PFD, MFD or simultaneously on both
- Easy software upgrade

*\*Requires compatible traffic detection system and optional Evolution Hazard Awareness option.*

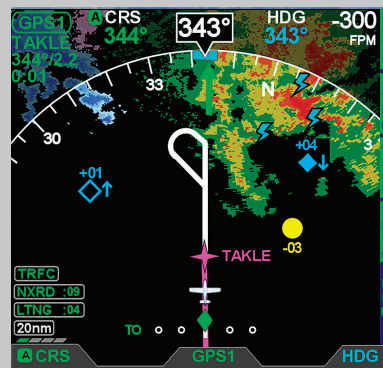
## Evolution Angle of Attack



Aspen’s innovative Evolution Angle of Attack (AOA) indicator provides the pilot a visual display of the AOA trend and the approximate available lift simultaneously in all phases of flight.

- Unique patent-pending technology for Aspen Evolution displays
- Calculates AOA from flight envelope data received from AHRS, air data computer and a certified GPS
- Displays aircraft AOA for flaps up and flaps down aircraft configurations on a single flight display
- Simple software upgrade that requires no additional sensors, external hardware or extra cabling for installation

## Evolution Hazard Awareness



Evolution Hazard Awareness (EHA) presents an integrated display of potential flight hazards directly in front of the pilot. EHA is a standard, built-in feature of the Evolution MFDs and is an optional software upgrade on the Pro PFD. EHA enables the display of traffic, datalink weather, and WX500 Stormscope® data from compatible sensor systems.

- Terrain - an internal terrain and obstacle awareness system is built into Aspen’s Evolution MFDs.
- Traffic - integrates and displays nearby traffic information from compatible traffic sensor systems.
- Weather - puts lightning and datalink weather information into your primary field of view.



*Add a 1000 MFD MAX and/or a 500 MFD MAX for a total glass cockpit system that can include PFD redundancy and more display area than competing flight displays.*

ASPEN AVIONICS™