

*BendixKing*

**AeroNav  
GPS Navigators**





## FLY WITH CONFIDENCE WITH AERONAV GPS NAVIGATORS

AeroNav is a navigation and communication system designed for Part 23 and Part 25 aircraft owners and OEMs. The technologically-advanced AeroNav is a feature-rich, hybrid touchscreen/physical-knobs GPS/FMS/NAV/COM. It is possibly one of the most sophisticated navigators ever built. It gives you all the functions that you expect from a smartly designed product with an intuitive graphical user interface, making your entire flying experience easy and more enjoyable.

## EASY TO USE

The AeroNav product suite offers a wide range of features that make your flying easier and more enjoyable. The hybrid touchscreen/physical-knobs gives you hassle-free access to the information you need as it offers two ways of accessing information which dramatically reduces “head-down” time:

1. With Page & Tab which enables you to access any screen in 1 or 2 clicks.
2. There are no nested menus, and no home page to navigate through.

This means near-zero training time, no need for memorization of actions and no need to re-learn at any time. To make data entry even simpler, a free separate Bluetooth QWERTY keyboard is included.

Competing products have an icon-based “Home” page that requires running each function as a separate “app,” making it difficult to move between different screens without going back up to the Home menu then finding your way back down through the pages of each specific function.

AeroNav’s concise dropdown menus were designed to provide easy data entry of airways, waypoints, destinations, and procedures. AeroNav can automatically create user-defined waypoints to further ease flight-planning tasks.

## THE PRODUCT LINE

### AERONAV 910



The AeroNav 910 is the flagship of the AeroNav product line. It gives the pilot the optimal situational awareness using both out-the-window and in-trail 3-D synthetic vision, internal ADAHRS and wireless connectivity.

### AERONAV 900



The AeroNav 900 is a full-featured GPS/FMS/NAV/COM with hybrid touchscreen/physical-knobs, wireless connectivity, 3-D synthetic vision and internal ADAHRS built right in.

### AERONAV 800



The AeroNav 800 leverages nearly all of the functionality of the AeroNav 900 navigators, but in a smaller form factor well-suited where panel space is at a premium.

## A SAMPLE OF HOW AERONAV MAKES YOUR FLIGHT EASY

- 1 Preview flight path – you can see a real-time graphical preview of each airway or procedure before the selection. This way you can visualize your waypoint, airway, hold, Direct-To and terminal procedures. You can view any available approach graphically before selection. In addition, you can load or edit any number of destination airports and multiple approaches quickly into your flight plan. To make data entry even more simple, a QWERTY keyboard is included as an accessory to AeroNav.
- 2 To expedite the waypoint and flight plan entry, AeroNav features predictive waypoint entry based upon proximity to your current location or the previous waypoint in your flight plan. The built-in intelligent algorithm predicts the next leg or waypoint on your flight based on distance rather than alphabetic order in the database, therefore, avoiding the need to review the entire database to get to the desired entry. This dramatically reduces the effort in screen usage and avoids the cumbersome need to go through wrong choices to get to the desired entry. AeroNav can reduce data entry by as much as 75% relative to legacy systems. This makes it much faster and easier to enter and edit flight plans. It also dramatically reduces “head-down” time.
- 3 Hold – AeroNav makes it easy to enter and fly a Hold at any waypoint, intersections, user-defined waypoints, VORs, and airports. AeroNav will default to a standard hold pattern at the current heading, with easily editable parameters.
- 4 Next leg depiction – AeroNav shows the current leg that you are flying in magenta. It also uses a magenta and white segmented line to show you the next leg of your flight – this is useful especially during entries into a holding pattern.

## SAMPLE TRIP – FLIGHT PLAN ENTRIES

With manual entry of waypoints, we need to enter:

KDAL → TTT → CEOLA → KIRST → LBB →  
 CNX → CADVO → CYOTE → ABQ →  
 HEXEM → AROYO → LORAT → EMUXE →  
 BLINI → GUP → DODAH → GRINT →  
 FORAN → INW → TAWNE → FLG → KFLG



You would need to manually enter 22 Waypoints, if you were not using AeroNav. Competing legacy instruments would require close to 500 clicks/push buttons to accomplish the same task! With AeroNav you only need 20 touches to complete the same flight plan.

FEATURES AND CAPABILITIES	AeroNav 910	AeroNav 900	AeroNav 800
FMS / GPS	✓	✓	✓
3D synthetic vision system	✓	✓	✓
Attitude reference system with SVS	✓		
VHF NAV	✓	✓	✓
VHF COM	✓	✓	✓
Wi-Fi	✓	✓	Optional
Bluetooth	✓	✓	Optional
Predictive terrain collision alert	✓	✓	Optional
Radar Display	Optional	Optional	*
Video	Optional	Optional	

\*When paired with AeroNav 900 or 910 with radar unlock



- 1 The hybrid interface is comprised of a touchscreen and physical knobs and buttons to combine the best of both input modes. Fully redundant, all functions on the touchscreen can also be accessed with knobs and buttons (except Pan & Zoom, Volume/Direct To/ OBS).
- 2 The AeroNav product line is compatible with a large number of popular ADS-B Out transponders. It is also an approved position source for ADS-B. This means there is no need for a separate GPS (or ADS-B with embedded GPS), resulting in purchase and installation of fewer equipment. It also means there is no need for an additional antenna on the aircraft, which would further decrease overall cost.
- 3 All AeroNav models include SBAS, which allows you to fly LPV approaches. This gives you more options with lower minimums, to make sure you can land where you want.
- 4 3-D synthetic vision is fully integrated in all AeroNav models, at no additional charge. They all include in-trail synthetic vision display which provides a significant enhancement to situational awareness.  
  
Synthetic vision gives you the view that you need right on your navigation screen, providing a 3-D presentation of your flight plan, color-contoured terrain, nearby obstacles, and ADS-B traffic when paired with an approved ADS-B source. The AeroNav 910 adds an out-the-window synthetic vision view, as well for PFD-like performance - including lateral and vertical deviation of LPV approaches.
  - 3D Terrain, Obstacles and Traffic – provides visual and aural alerts about terrain. Standard traffic symbols with traffic depictions indicate relative threat level by their size, and relative altitude and bearing. As traffic draws nearer to you, the traffic symbols size increase on the AeroNav.
  - Predictive Terrain Collision Alert – offers an extra measure of safety by providing visual and aural alerts if controlled flight in to terrain is projected. This feature also includes a TAWS-like 500' foot callout if the aircraft descends below 500' MSL based on GPS terrain.
  - Airport Flags – AeroNav shows the airfields using a METAR-style flag when in field of view. When interfaced with a datalink weather source (such as XM or ADS-B with FIS-B) airfield flags are color-coded and represent the ceiling and visibility, consistent with the moving map presentation.

- 5 Radio Frequencies – AeroNav automatically nominates, auto-tunes, identifies, and monitors NAV radio frequencies. You can override these anytime by manual tuning with the pop-up numeric key pad or by simply typing the identifier for the VOR. Station identifiers are provided for both the active and standby COM frequencies making it easy to determine the station with which you are communicating.

- 6 Approach Charts and Airport Diagrams – offered with AeroNav 910 and 900, this feature works with Jeppesen's Jeppview® charts subscription service to give you worldwide approach charts and diagrams for over 6000 airport diagrams. Optional European VFR (Bottlang) charts for over 2,200 airports in 29 European countries are also available. Geo-referenced airport diagrams show your aircraft or helicopter right on the chart, making it easy to navigate while on taxiways and runway crossings – this is especially helpful at unfamiliar airports.

AeroNav is an open system which offers built-in Bluetooth and Wi-Fi connectivity so your favorite flight apps will always be part of your toolkit. It supports a growing list of third party apps for use during your flight, including popular apps such as Foreflight®, Seattle Avionics FlyQ, FlightPlan Go, FlightPlan.com, Cloud Ahoy and more to come. App support makes pre-flight planning and flight plan transfer to AeroNav seamless.

In addition, using the AeroNav app will give you a second instance of AeroNav right on your iPad when you connect it to AeroNav via Wi-Fi. It's like having an extra AeroNav right on your lap. The iPad app will give you a bigger screen version with full control of the panel-mounted AeroNav plus independent display capability. It enables different pages to be displayed on the iPad and AeroNav, while allowing remote-control entry and editing of frequencies and flight plan functions.

- 7 Low-Fuel Alerting – When coupled with a compatible fuel totalizer, AeroNav will display a dashed **green circle**, indicating a fuel reserve of 45 minutes.

**NOTE:**

Many features that are optional in other products are standard at no additional cost in AeroNav, such as: predictive terrain collision alert, Jeppesen Charts, and Wi-Fi connectivity.



## ADDITIONAL OPTIONAL FEATURES

AeroNav offers a variety of optional features to make your flight planning even easier. A sample list of these features is:

1. Weather Radar – Can interface with BendixKing's RDR2000
2. Video – Supports RS170 video input
3. 16-Watt Com – Supports higher-flying aircraft for extended range transmissions (28 VDC aircraft only)
4. Helicopter – Supports helicopter features including helipads and helicopter approaches
5. Legacy avionics support – Supports paid enablement for GPS legacy avionics – for interface to legacy EFIS including ProLine 2.1 and EFS 40/50 typically found in turbine-class aircraft.

## EASE OF INSTALLATION

The AeroNav mechanical design enables easy slide-in replacement of legacy navigation systems from other vendors. It is possible to use the existing wiring, mounting trays and connectors to dramatically reduce installation time and cost. Note that because of its extra features relative to legacy systems, some additional wiring may be necessary.

AeroNav's built-in features such as ADS-B and Attitude Indicator (AeroNav 910) reduce additional installation time and cost.

## CHOICE OF INVESTMENT APPROACH

BendixKing provides the opportunity for you to acquire the AeroNav with our Total Avionics Plan. This all-inclusive subscription plan makes the process of procuring, and installing the avionics fast and easy. This plan requires no upfront capital investment and covers:

1. AeroNav
2. Free installation at an authorized dealer of your choice
3. Free equipment repair and software updates
4. Free subscription to charts and databases
5. Charts and software updates

Selecting BendixKing Total Avionics Plan enables you to substantially lower your upfront cash outlay and have the piece-of-mind that the product is completely covered during the term of the plan.

Most of all, you will be using a product that makes it easy for you to plan your flight path, and fly with confidence.

## SPECIFICATIONS

### AeroNav 900, AeroNav 910

#### Display

5.7" diagonal with touch screen  
Full VGA - 640 x 480 pixels  
65,535 colors  
Ultrabright sunlight readable with LED backlighting

#### Dimensions

Width: 6.30" (16.0 cm)  
Height: 4.60" (11.7 cm)  
Depth: 11.00" (27.5 cm) behind panel including connectors

#### Weight (including tray & connectors)

AeroNav 910 - 9.19 lb (4.17 kg)  
AeroNav 900 - 8.79 lb (3.99 kg)  
VHF COM Power Output  
10 Watts nominal  
Optional 16Watt  
(for 28 vdc installations only)

### AeroNav 800

#### Display

4.8" diagonal with touchscreen  
640 x 235 pixels  
65,535 colors  
Ultrabright sunlight readable with LED backlighting

#### Dimensions

Width: 6.30" (16.0 cm)  
Height: 2.66" (6.73 cm)  
Depth: 11.0" (27.5 cm) behind panel including connectors

#### Weight (including tray & connectors)

AeroNav 800 - 6.88 lb (2.34 kg)

#### Power Requirements

11 - 33VDC  
4.4A/6.5A transmit @14vdc  
2.2A/4.0A transmit @28vdc

