

aera® 796/795

See what it's like to navigate in 3D on a portable touchscreen GPS.



aera® 796/795 specifications

Navigation features

| | |
|-------------------|---|
| Waypoints: | Total: 3000 with 10 characters (name and symbol) Nearest: Continuously updated; Airport, VOR, NDB, INT, user, ARTCC, FSS, airspace, WX, city |
| Routes: | 50 reversible routes with up to 300 points each |
| Tracks: | 10,000 point automatic track log; 15 saved tracks; 1,000 points per saved track; lets you retrace your path in both directions |

| | |
|-------------------------|---|
| Map datums: | More than 100 plus user datum |
| Position format: | Lat/Lon, UTM/WUPS, Maidenhead, MGRS, Loran TDs and other grids, including user grid |

| | |
|------------------------|--|
| GPS performance | |
| Receiver: | WAAS enabled, high-sensitivity GPS receiver continuously tracks and uses up to 12 satellites to compute and update your position |

| | |
|---------------------------|-----------------------------|
| Acquisition times: | |
| Warm: | Less than 5 seconds |
| Cold: | Less than 45 seconds |
| AutoLocate™: | Less than 60 seconds |
| Update rate: | 5/second, continuous |
| GPS accuracy: | |
| Position: | < 10 meters |
| Velocity: | 0.05 meter/sec steady state |

| | |
|------------------------------|--|
| DGPS (WAAS) accuracy: | |
| Position: | < 5 meters |
| Velocity: | 0.05 meter/sec steady state |
| Interfaces: | Two RS232 ports with NMEA 0183 data format and proprietary GARMIN USB interface. Accepts Aviation input format from panel-mount GPS. Also can connect to Garmin SL30 and SL40 for frequency tuning and GTX 330 for TIS traffic alerts. |

| | |
|----------------------|----------|
| GPS Antenna: | Internal |
| Differential: | WAAS |

Moving map features

| | |
|------------------|--|
| Basemap: | Built-in basemap shows roads, lakes, rivers, metro areas and surface features |
| Database: | Built-in Jeppesen® database with terrain and obstacle databases*. Includes Americas, Atlantic International, or Pacific International coverage, plus airport, FSS, ARTCC, and weather frequencies. The aera 796 includes locations for private airports and heliports (U.S. and Europe) and visual reporting points (Europe). Garmin SafeTaxi data supports detailed airport and taxiway diagrams at over 1,000 U.S. airports. Pre-loaded Garmin FliteCharts® data card includes all published instrument approach plates and terminal procedures (U.S. only). |

| | |
|----------------------------|---|
| Approach waypoints: | Jeppesen® data also includes final approach sequence waypoints for all published approaches |
|----------------------------|---|

| | |
|---------------------------|--|
| AOPA Airport Guide | AOPA directory (included on the 795/796 Americas version) contains detailed information on over 7,400 U.S. airports, along with airports of entry for Canada, Mexico and the Caribbean. Includes names and telephone numbers of aircraft services, fuel outlets, transportation, and more. |
|---------------------------|--|

| | |
|-------------------------------------|--|
| AC-U-KWIK Airport Directory: | AC-U-KWIK airport data (included on the 795/796 Atlantic and Pacific database versions; optional on Americas version) features worldwide coverage with detailed site information on over 7,800 airports throughout North America, Europe, Asia, Central America, the Caribbean, South America, Africa and Australia. |
|-------------------------------------|--|

| | |
|-------------------------|---|
| Uploadable maps: | Supports optional detailed cartography, including City Navigator® street mapping which allows the user to search and locate any desired surface address for use as a flight plan waypoint or for "direct-to" aerial navigation. |
|-------------------------|---|

| | |
|----------------------|--|
| Power | |
| Source: | Replaceable, rechargeable Lithium-ion battery |
| Battery life: | 3 - 8 hours of use (nominal). Includes power for SiriusXM™ receiver. Decreasing screen brightness can greatly increase battery life. |

| | |
|-----------------|---|
| Physical | |
| Size: | 5.1"W x 8.0"H x 1.5"D (13.0 x 20.3 x 3.8 cm) |
| Weight: | 1.65 lb (.75 kg) with battery |
| Display: | 7.0" diagonal (17.78 cm) 480 x 800 pixels, color sunlight readable WVGA TFT with adjustable backlighting (600 nits) |

| | |
|--------------------|--|
| Accessories | |
| Standard | Protective case and cleaning cloth USB interface cable GA 25 external GPS antenna GXM 40 smart antenna (796 only) Free single database update (includes Navigation, FliteCharts®, SafeTaxi®, obstacles and towers , airport directory) DC cigarette adapter 12/24 volt cradle Home A/C cradle dock Yoke mount Quick reference guide MapSource CD-ROMs Power-Data cable Replacement Lithium-ion battery pack Knee mount |
| Optional: | |



Garmin International, Inc.
1200 East 151st Street, Olathe, KS 66062
p: 913.397.8200 f: 913.397.8282

Garmin (Europe) Ltd., Liberty House, Hounsdown Business Park, Southampton, Hampshire, SO40 9RB, U.K.
p: 44.1794.519944 f: 44.1794.519222

Garmin Singapore Pte. Ltd., 46 East Coast Road #05-06, Singapore
p: 65.63480378 f: 65.63480278

© 2011 Garmin Ltd. or its subsidiaries

3D meets portability in the new aera® of large-format touchscreens

With its unique 3D Vision perspective view imagery of database-generated flight terrain, the new aera® 796 is a real breakthrough in carry-on GPS navigation. A dedicated aviation device featuring a big 7-inch capacitive touchscreen display, this new unit is Garmin’s most visionary portable yet. Viewable in portrait or landscape orientation, the aera’s “virtual reality” flight graphics can be framed with GPS-derived indications of ground track, altitude, groundspeed, vertical speed and turn indication. Geo-referenced FliteCharts^{®1},



AeroNav IFR Enroute and VFR Sectional charts¹, SafeTaxi^{®1} diagrams, low and high altitude airways, and AOPA Airport Directory¹ data all come pre-loaded. Plus, a built-in digital document viewer expands the unit’s utility as an electronic flight bag (EFB) – enabling you to load and view PDF documents, JPEG photos, and other electronically formatted materials of all kinds: Everything from checklists and raster charts to detailed performance/procedural data from the aircraft flight manual. There’s also a convenient scratch pad for writing down clearances or other important notes. For helicopter pilots (or others who sometimes need to navigate to specific ground locations or addresses), the additional support of optional City Navigator[®] mapping allows the user to search and locate any desired surface address for use as a flight plan waypoint or for “direct-to” aerial navigation. And for pilots who prefer the Jeppesen format for charts and diagrams, Garmin also offers an electronic ChartView™ enablement option (subscription required), utilizing Jeppesen’s extensive data library to provide global charting capabilities. Moreover, if your flight planning takes you beyond the shores of North America, your aera 796 is optionally available with an AC-U-KWIK international database which details airport directory information on more than 7,800 locations worldwide.

Situational awareness made simple.

A true aviation portable, the aera 796’s physical design clearly enhances ease-of-use and adaptability in the cockpit. It’s sized to fit most aircraft yokes – or it can comfortably be used as a knee-mounted device. There are four touchkeys on the bezel of the unit representing “Back”, “Menu”, “Direct-To” and “Nearest” selections for quick navigation to frequently used functions. Also, because the aera 796 menu is customizable, you can easily pick favorite features or pages to anchor as icons along the bottom of the screen for even faster access.

The touchscreen interface allows you to quickly pan across the map and “pinch zoom” to magnify or downscale map detail. Plus, with the flick of a finger, you can also rotate the 3D Vision vantage point completely around the aircraft for easy scanning of the surroundings. When flying in areas or at altitudes where rising topography may pose a hazard, the aera 796 uses its terrain-alerting database to colorize the landscape – clearly showing with amber or red overlays those areas where potential flight-into-terrain risks may exist. Likewise, any towers or obstacles that may encroach upon your flight path are color-highlighted and clearly displayed with height-appropriate symbology. The aera 796 also has the ability to display TIS (traffic information service) alerts, where available, by connecting to a compatible traffic source such as Garmin’s GTX 330 Mode S transponder.

AERA 796 HAS A CONVENIENT “SCRATCH PAD” FOR WRITING DOWN CLEARANCES OR OTHER NOTES

Two times the connectivity.

A second serial port gives the aera® 796 even more ability to connect and communicate with external cockpit systems than its predecessor design. With two serial ports, pilots can display traffic information or send frequencies to a Garmin SL30 or SL40 VHF radio, while simultaneously sending position information or other data to select systems or devices onboard the aircraft. A GXM 40 Smart Antenna, included with the aera 796, provides North American customers with

access to datalinked NEXRAD imagery and other XM WX® satellite weather capabilities – plus some 170+ channels of digital audio programming² through SiriusXM™ satellite radio. And because the GXM 40 is powered through the aera 796 with a USB connection, the setup is simple – allowing the satellite weather and radio functions to operate for up to four hours without external power. Alternatively, for users in areas beyond the reach of XM coverage, Garmin’s aera 795 model offers the same overall functionality as the 796, without the XM satellite weather/entertainment capabilities.



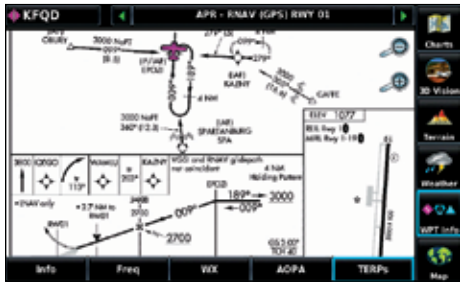
Electronic flight bag functions can display Weight & Balance documents



VFR Sectional chart data with geo-referencing is included for the U.S.



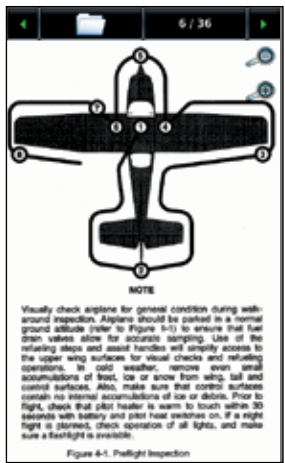
IFR map mode shows high and low enroute airways



Geo-referenced U.S. FliteCharts come pre-loaded



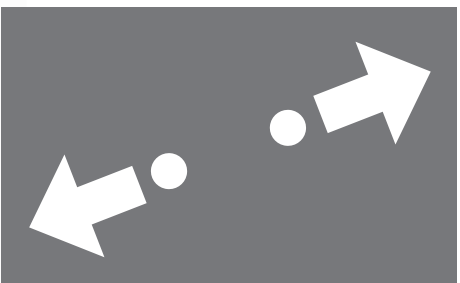
Jeppesen-format electronic charts available with optional ChartView™



PDF document viewer offers easy access to aircraft flight manual data



Electronic checklist capability keeps cockpit paperwork to a minimum



Touchscreen interface with handy “pinch zoom” feature lets you quickly magnify or downscale graphical detail within the viewing area by simply dragging your finger and thumb together (zoom out) or apart (zoom in).

FEATURES:

- Menu-driven touchscreen interface simplifies operation
- Features 3D Vision perspective view terrain on flight display
- Supports “paperless cockpit” concept with a digital document viewer, scratch pad, and pre-loaded electronic charts
- Selectable screen orientation – Portrait or Landscape
- Geo-referenced Garmin FliteCharts[®] feature electronic versions of AeroNav[™] (formerly NACO) IFR approach plates and terminal procedures for U.S. airports
- Initial geo-referenced AeroNav[™] IFR Enroute and VFR Sectional charts come pre-loaded
- Garmin SafeTaxi[™] data provides detailed taxiway diagrams and position information for over 1,000 U.S. airports
- AOPA Airport Directory data offers detailed information on over 7,400 U.S. airports, along with airports of entry for Canada, Mexico and the Caribbean. Includes names and phone numbers of FBOs and fuel/service facilities, plus ground transportation, ATC data, and more
- For international flyers, optional AC-U-KWIK airport directory database features information on more than 7,800 airports worldwide
- IFR map mode displays Victor airways and Jet routes, derived from the navigation database
- Traffic Information Service (TIS) alerts are supported via Garmin GTX 330 Mode S Transponder interface
- Supports XM WX satellite weather data and SiriusXM[™] audio entertainment* (aera 796 only)
- A second serial port with USB interface allows more cockpit connectivity, with simultaneous access to multiple devices
- Fast 5 Hz GPS update speed gives a super-smooth presentation of flight data for added realism and safety

¹ IFR FliteCharts, VFR Sectional charts, SafeTaxi and AOPA Directory are for U.S. only
² XM subscription required (sold separately). See XM WX for coverage areas and subscription plans

¹ XM subscription required (sold separately)