

aera™ series specifications

Navigation features

Total Waypoints:	3000 with name and symbol
Nearest:	Continuously updated; Airport, VOR, NDB, INT, user, ARTCC, FSS, airspace, Wx, city
Routes:	50 reversible routes with up to 300 waypoints each
Tracks:	10,000 point automatic track log; 15 saved tracks; 900 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/MPS, Maidenhead, MGRS

GPS performance

Receiver:	High-sensitivity GPS receiver with WAAS position accuracy. 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
Interfaces:	RS232 port 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. Unit also provides MCX connector for use with an optional external antenna (sold separately).

Moving map features

Basemap:	Built-in basemap shows roads, lakes, rivers, metro areas and surface features
Database:	Built-in navigation database with terrain and obstacle data bases**. Includes Americas, Atlantic International, or Pacific International coverage, plus airport, FSS, ARTCC, and weather frequencies. Includes location data 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 950 U.S. airports.
Approach waypoints:	Navigation data includes final approach sequence waypoints for all published approaches
AOPA Airport Guide:	Includes AOPA directory (on aera 550/560 only) 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.
Custom POIs:	Supports user-created custom points-of-interest (POI) data, using Garmin's free POI Loader software.
Uploadable maps:	Supports optional detailed maps

Power

Source:	Replaceable, rechargeable lithium-ion battery
Battery life:	Up to 5 hours of use (nominal). XM reduces battery life to 1.5 to 2 hours.

Automotive features

Street navigation:	North American and European versions of the aera come with City Navigator® NT street map coverage pre-installed. Like Garmin's popular nuvi line of auto navigators, the aera series offers voice-guided turn-by-turn directions with text-to-speech technology that calls out streets by name.
Driver aids:	Bluetooth® wireless technology enables hands-free mobile calling. Also, premium features on aera 550 and 560 include lane assist with junction view, speed limit notification, and support for Navteq traffic alerts*.

Physical

Size:	5.3"W x 3.3"H x 0.9"D (13.5 x 8.4 x 2.3 cm)
Weight:	9.5 oz (270 g)
Display:	4.3" diagonal (10.9 cm) 480 x 272 pixels, color sunlight readable WQVGA TFT with adjustable white backlighting
User data storage:	Indefinite
Waterproof:	aera units and aviation mounts are waterproof to IPX7 standards

Accessories

Standard:	Free single database update (includes Navigation, SafeTaxi®, obstacles and towers) Preloaded City Navigator® NT street maps USB interface cable GXM 40 smart antenna (on aera 510/560 only) 12-volt vehicle power cable and auto mount/friction mount Yoke mount and aviation cradle/cable assembly Owner's manual Quick reference guide AC Adapter (on aera 510/560 only) Carrying case (included with aera 550/560 only)
Optional:	MapSource microSD™ cards Replacement lithium-ion battery pack GA 25/27 external GPS antenna Suction cup mount External battery charger Carrying case (optional for aera 500/510)

* Subject to accuracy degradation to 100m 2DRMS under the United States Department of Defense-imposed Selective Availability (SA) program

** Obstacle data available only for U.S.A. and Europe



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