PORTABLE FLIGHT SOLUTIONS

PURPOSE-BUILT HANDHELDS AND APPS FOR PILOTING YOUR OWN COURSE

GARMIN®

PORTABLES

THE FAST-EVOLVING WORLD OF PORTABLE GPS

It wasn't so very long ago that the words "aviation portable" could be used to categorize, fairly concisely, a segment of stand-alone GPS handheld products. But nowadays with the emergence of sophisticated navigation, mapping and digital flight bag apps for iPads®, smartphones and other tablet-type computer devices, the very idea of what constitutes a "portable product" for aviation has taken on a whole new range of meanings.

What's more, the industry's accelerating move toward the NextGen airspace system has brought with it an array of new cockpit connectivity options, including subscription-free U.S. weather, NEXRAD imagery and ADS-B traffic monitoring services, which now can all be accessed easily via portable, pocket-sized datalink receivers that pilots can carry with them into any aircraft they fly. Moreover, a number of these products now include their own wireless local link capabilities (via our Garmin Connext® technology), which enable them to remotely connect, control, activate and/or "talk with each other" in ways that promise even greater things to come.

In other words, it's a new world out there.

But rest assured, it's a world where Garmin innovation continues to set the pace, with the performance, value and first-in-class features that make GPS-based navigation truly portable and affordable for everyone who flies.

Designed for pilots by pilots, our portable solutions are known for their reliability, durability, practicality, safety-enhancing features and simplicity of operation – no matter what hardware and/or software configuration they might take. They've all been tested and optimized for use in demanding cockpit environments. And they're backed by the most highly acclaimed service and support network in the aviation industry. No wonder pilots around the globe look to Garmin as their go-to source for today's best in portable flight technology.

CONTENT

aera® 660/760	04
Garmin Pilot™ Flight App	06
inReach® Satellite Technology	08
D2 Mach 2	10
D2 Mach 2 Pro	13
D2 Air X15	15
GLO™ 2	16
Fly Garmin	17
SiriusXM® and ADS-B Receiver	18
Connext®	21
Support	23

PURPOSE-BUILT FOR AVIATION, DESIGNED FOR TRUE PORTABILITY

Our sleek aera® 760, with its 7" display, and aera® 660, with its 5" display, are the most powerful, most robust, most capable aviation handhelds we've ever designed in formats this compact. And they provide the features, reliability, processing power and onboard resources to help you make better piloting decisions. Each navigator comes with detailed aerial mapping, a built-in terrain/obstacles database and WAAS GPS position accuracy. And you can display SiriusXM® satellite weather and entertainment[1], as well as subscription-free ADS-B weather and traffic, with an optional receiver (sold separately).

Both can quickly and reliably acquire GPS and GLONASS satellite constellations, combining advanced navigation tools with detail-rich flight mapping. You can even access weather via Wi-Fi® anywhere you have an internet connection to give you more planning options before heading to the airport.

They also deliver an intuitive touchscreen interface that allows you to quickly pan across the map screen – or pinch-to-zoom for the exact map scaling you want to see. Our signature Direct-to feature is always available, so it's easy to command navigation functions or find the nearest airports from any page on the display. You can even use optional maps to locate street intersections and other non-aviation waypoints. Additionally, the aera 760 allows you to enter airway segments into flight plans, as well as visualize and plan departures, arrivals and approaches — and even see approach plates overlaid on the map.

With either navigator, a quick touch of the power button on top of the bezel gives you the option of switching between portrait and landscape view at any time. This button can also be used to control the audio volume, mute aural alerts, adjust display brightness and access other basic settings.

For added perspective, Garmin 3D Vision technology leverages a worldwide terrain database to give you a virtual 3-D, behind-the-aircraft view of the surrounding landscape, while overlaying GPS-derived airspeed, altitude and vertical speed alongside flight plan information. When you connect the devices to an attitude source, such as a GDL® 52 series or compatible Garmin avionics, Garmin SVX™ synthetic vision and attitude command bars can be automatically added to your display as well. And when integrated with your compatible panel-mounted avionics, they can also provide coupled lateral and VFR vertical guidance to your GFC™ 500 or GFC™ 500X autopilot, allow you to upload radio frequencies into the standby position of select Garmin Comm radios and provide GPS position that enables Garmin GTR 225 Comm and GNC® 255 Nav/Comm to look up nearest frequencies.

Comprehensive chart options provide an easy pathway to paperless cockpit operations – and the aera 660 and aera 760 can be qualified for use as an electronic flight bag. View georeferenced VFR sectional and IFR en route charts for the U.S., Canada and Europe. SafeTaxi® charts for the U.S., Canada and Europe are also available, as are an AOPA Airport Directory and a worldwide AC-U-KWIK directory. Local fuel prices for U.S. airports can be easily accessed on the map — with the best nearby prices highlighted — or within the directory database so you'll know where to plan your fuel stops.

Other aera 660 and aera 760 technology highlights include vertical navigation guidance, Smart Airspace™ display, WireAware™ wire-strike avoidance technology, Wi-Fi® database downloading, TargetTrend™ and TerminalTraffic™. And both devices are compatible with the cost-effective Garmin navigation database. For the money — and for the performance — the aera series is truly in a class by itself.

[1]Active subscriptions are required for optional SiriusXM weather and audio entertainment packages (sold separately). XM coverage area is limited to continental U.S. and its coastal regions, as well as southern Canada (subscriptions required).

Preloaded SafeTaxi® diagrams with georeferencing capability aid navigation on unfamiliar airports. With a compatible ADS-B "In" receiver (sold separately), Garmin TerminalTraffic™ technology can also display nearby ADS-B equipped surface targets.

Database-driven 3D Vision display offers a simulated terrain view in context with your aircraft. You can rotate the 3-D view completely around the aircraft for easy scanning from various "camera ship" perspectives.

With ADS-B "In" data from compatible devices (sold separately), the aera 660 and aera 760 can display subscription-free U.S. weather and traffic, overlaid on the moving map.

For low-flying helicopters and patrol aircraft, Garmin WireAware™ wire-strike avoidance technology offers added protection against powerline incidents.

An available AOPA Airport Directory provides data on thousands of U.S. airports. (A worldwide AC-U-KWIK directory is available optionally.)

With ADS-B "In" from a compatible receiver (sold separately), the aera 660 and aera 760 can display traffic enhanced with Garmin TargetTrend™ technology, which shows target trajectories relative to your aircraft.

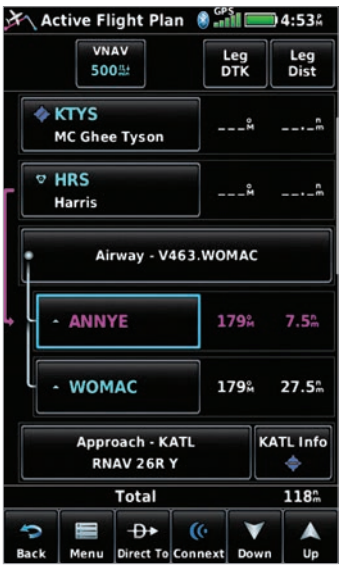
IFR Enroute and VFR Sectional charts for the U.S. feature georeferencing capability — with an overlaid aircraft symbol indicating your current position.

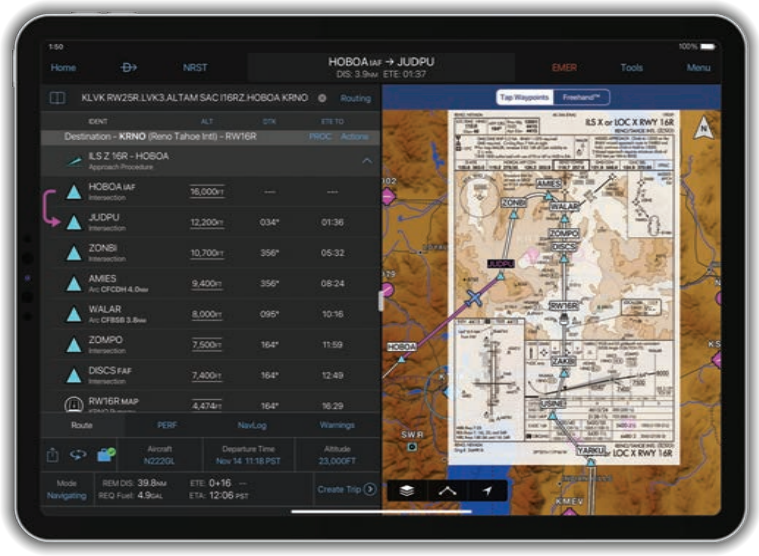
SiriusXM® weather[1] can overlay the moving map, while SiriusXM satellite radio support lets you enjoy 150+ audio channels[1].

SPECIFICATIONS

Receiver	High-sensitivity, WAAS-enabled GPS plus GLONASS
Waypoints	3,000
Routes	50 with up to 300 points each
Basemap	North America, South America, Atlantic or Pacific
Uploadable maps	Supports optional detailed maps
Battery life	Up to 4 hours (nominal) based on backlight and connectivity
Size	5.5"W x 3.4"H x 0.8"D (aera 660) / 7.29"W x 4.85"H x 0.91"D (aera 760)
Display size	5.08" diagonal (12.9 cm) / 7" Diagonal (17.8 cm)
Weight	8.64 oz (aera 660) / 19.8 oz (aera 760) with battery

[1]Subscriptions are required for optional SiriusXM weather and audio entertainment packages (sold separately). XM coverage area is limited to continental U.S. and its coastal regions, as well as southern Canada (subscriptions required).





CLEAR YOUR TABLET FOR TAKEOFF WITH OUR GARMIN PILOT™ APP

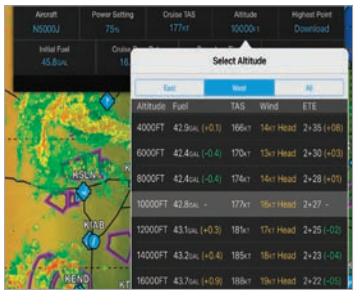
With an expanded suite of tools for preflight planning and in-flight operations on both VFR and IFR flights, Garmin Pilot lets you turn a whole array of Apple®- and Android™-based mobile devices into some of the most versatile piloting tools you've ever slipped into a flight bag.

Garmin continues to pack more features and capabilities into Garmin Pilot to make it aviation's premier, all-in-one application — merging flight-plan data with other information such as integrated weight-and-balance calculations, aircraft performance tables and more. Freehand flight planning allows for quick and easy editing of flight plans directly from the moving map page. And pilot-configurable checklists let you create custom checklists that are quickly accessible from within the app.

Global in its scope and coverage, the Garmin Pilot app features detail-rich interactive mapping and charts, advanced MFD-like navigation capabilities, complete global flight planning, and airport directory and weather briefing resources – plus available in-flight weather and traffic display link[1].

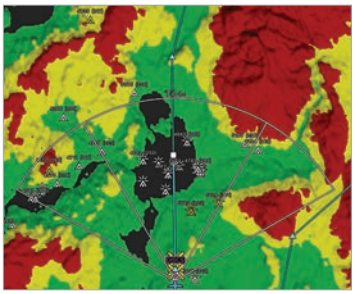
The app's easy-to-use menu icons mirror those of the newest Garmin touchscreen avionics — with a graphic interface that allows you to quickly pan across the display and pinch-to-zoom to scale the map view up or down. Using your unit's internal (or compatible external) GPS reference, Garmin Pilot provides en route navigation on its moving map display, while keeping track of your ETE, ETA, crosstrack error, distance to waypoint and more. Smart Airspace™ automatically highlights airspace features close to your current altitude[1], providing you with increased situational awareness. You can set airspace alerts that notify you before you enter selected airspace types[2]. And you can create a hold over an existing fix or custom waypoint and add search and rescue patterns, including parallel track, sector, expanding square, orbit or CAP grid, right to your flight plan[2].

Look ahead to preview changing weather conditions along your route, while connected to the internet, a GDL® 52 series portable receiver or other Connext®-capable avionics. And the radar overlay on the moving map can display the projected path of a storm cell to show you where it's predicted to be in 15-, 30-, 45- and 60-minute intervals. The flight profile view even allows you to see the probability or severity of icing at particular altitudes. Plus, with a GDL 52 series receiver and a SiriusXM® aviation weather subscription, you can view the surface analysis report — including isobars, pressure systems, fronts, troughs and more — on the moving map.



Aircraft performance tables in Garmin Pilot make it easy to input figures for such calculations as power setting and fuel/distance profiles. Calculations take into account such factors as outside air temperature, altitude and more.

Make IFR flight planning and flying easier by adding airways and IFR procedures — including approaches, arrivals, departures and more — to your route.



A terrain and obstacle database provides high-resolution contour mapping to show your aircraft's proximity to potentially hazardous terrain or obstacles such as towers, while providing audible and visual cautions and warnings as you near these obstructions.

Garmin Pilot is global in scope. Its highlights for international pilots include available FliteCharts® for Europe, Canada and the U.S. – as well as DFS charts and detail-rich surface mapping with visual reporting points.

[1]Requires supported receiver
[2]Available on Apple® devices
[3]SmartCharts are not available in all regions
[4]Not intended to be used as a source of attitude information for flight in instrument meteorological conditions and should not be used under these conditions
[5]In addition to attitude, the GDL 52 series also provides built-in GPS positioning reference

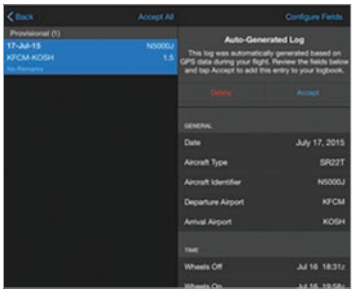
By opting for a premium Garmin Pilot subscription, you can streamline your IFR flying with SmartCharts[3] — the dynamic and data-driven Garmin aviation charts that are tailored to simplify terminal procedures. Reinvented from the ground up, SmartCharts work to optimize your approach, standard instrument departure (SID), standard terminal arrival route (STAR) and airport diagrams to your flight specifically. So there's less complexity to the data presented during these high-workload phases of flight — allowing you to find relevant information more quickly and accurately. With SmartCharts approaches, you'll get a single set of minimums based on your aircraft category. You'll see only the approach transition you're expecting, clearly view applicable notes, and be provided with a georeferenced profile view of your descent showing obstacles and terrain. To further simplify things, quick access buttons let you identify COMM frequencies, access briefing notes for the approach, display the missed approach procedure and more.

With or without the SmartCharts premium package, Garmin Pilot also allows you to establish personal minimums for VFR, IFR, and wind speed, gust and crosswind components in both day and night conditions. Plus, a unique radial menu offers easy on-screen access for creating user waypoints or navigating Direct-to, and you can view current weather conditions and airport/navaid information at a glance.

Global terrain and obstacle data, as well as obstacle alerting and detail-rich surface mapping with visual reporting points, is also available. In addition to U.S. charts, IFR and VFR aeronautical chart coverage is available for Europe and Canada, providing valuable information such as radio frequencies, airspace boundaries, landmark information and so on. Garmin Pilot also includes European VFR navigation data to support the unique needs of VFR pilots with airport traffic patterns, en route holding patters, TMZ/RMZ airpsaces and more[2]. As an option, Garmin Pilot is also available with mapping formats and global navigation data powered by Jeppesen® as well as Jeppesen electronic charts.

With Database Concierge, Garmin Pilot allows you to wirelessly update the aviation databases of your compatible avionics. At home you can simply select the individual databases on Garmin Pilot, download them and then store them to your mobile device. Then, at the airport, once your device establishes a wireless connection in the airplane, Garmin Pilot will transfer your up-to-date databases directly to the compatible avionics in minutes, where they'll wait in standby until their effective dates. This app-to-avionics interface really saves you time and tedious data entry – so you can complete your checklist items quicker and get airborne sooner.

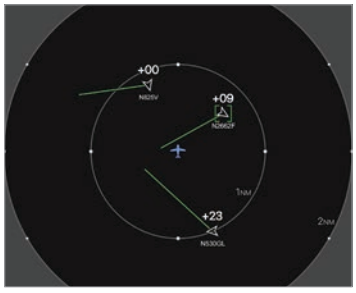
To further extend your tablet's capability, you can wirelessly link — via Garmin Connext — to a portable GDL 52 series receiver. That connection not only lets you access subscription-free weather and uplinked ADS-B traffic, but it also adds reliable backup attitude reference[4] to enable 3-D Vision with virtual terrain, horizon cues, HSI, airspeed, altitude and vertical speed reference all integrated on the flight display[5]. Along with this, the datalinked traffic is enhanced with our exclusive TargetTrend™ relative motion tracking technology to help you better visualize traffic trajectories and closing rates in relation to your flight path. You can even pinch-to-zoom on the traffic page to zoom in and out on traffic targets. And once you've landed, Garmin TerminalTraffic™ technology also enables ADS-B equipped surface targets to be displayed on the SafeTaxi® diagram so you can see what's happening, traffic-wise, on busy runways and taxiways. Better still, at the end of your flight, there's even a handy logbook feature in Garmin Pilot that will automatically capture and record your total flight time from takeoff to landing — as well as day/night recency for FAR requirements. This feature also provides a place for logbook endorsements, and it even syncs in the cloud with flyGarmin to keep all your flight entries up to date.



Garmin Pilot can serve as your electronic logbook. It tracks date, time, aircraft, arrival/departure airports, landings and more. Plus, it will automatically log your total time from takeoff to landing.

With SmartCharts, tailor your terminal procedure charts specifically for your flight — saving you time and workload while also reducing potential errors.

Optional SafeTaxi diagrams with georeferencing capability help you navigate on unfamiliar airports. With an optional GDL 52 series receiver, TerminalTraffic technology displays ADS-B equipped surface targets right on these diagrams.



With an optional GDL 52 ADS-B receiver, Garmin Pilot can display subscription-free weather and datalink traffic. Traffic displays with our patented TargetTrend technology that shows traffic trajectories relative to your aircraft.

FLY WITH PEACE-OF-MIND SATELLITE CONNECTIVITY

A potential life-saving addition to your flight bag, the inReach Mini 3 and inReach Mini 3 Plus satellite communicators provide the global messaging technology[1] to keep you in touch everywhere you fly. In places where cellphones and radio signals can't reach, use your active inReach satellite subscription plan to send and receive text messages, share your GPS position and — if necessary — trigger an interactive SOS to Garmin Response℠, our 24/7-staffed international coordination center.

The Iridium® satellite network used by these devices supports 100%, pole-to-pole global coverage to keep you in contact wherever your off-grid flights may take you. Simply pair your inReach device with a compatible tablet or smartphone running the Garmin Messenger™ app to start sending and receiving text messages, even while you're in the cockpit. The app can also pull in your phone's contacts list, making connections that much easier.

Support for group message threading and distribution lets you connect with multiple contacts simultaneously — and have group text chats with others using the app. To help save on satellite airtime charges, the Garmin Messenger app uses the cellular connection of your smartphone when it's available, then it seamlessly switches to the Iridium satellite network when you go beyond cell coverage range. In addition, for your followers on the ground, inReach Mini 3 can provide tracking of your flight — using the web-based MapShare™ page created for your inReach account or via FlightAware.com. Then, to share your adventures once you've landed, the Garmin Messenger app, when paired with your smartphone, offers a LiveTrack™ link to let friends follow your location in real time and see data such as distance covered, time elapsed and elevation of your current position. You can also pair your device with the Garmin Explore™ app on your smartphone or tablet to plan your trip, navigate, record an activity, and follow your course to your destination and back.

For even more sharing options, the inReach Mini 3 Plus model has a built-in speaker and microphone — allowing you to exchange 30-second voice[1] note messages with no cell coverage needed. You can also read transcribed voice-to-text messages on the unit's color display. This inReach model also offers photo sharing[2] via the Garmin Messenger app. Plus, it has a built-in emergency siren alarm and support for longer 1,600-character messages, versus 160 characters for the inReach Mini 3. Optional inReach weather data service lets you request and receive detailed forecasts on your device, so you'll know what conditions to expect ahead.

There's also automatic monitoring provided by the SE-SAR service, which allows the system to identify potential emergency signals to promptly initiate search and rescue procedures for your aircraft. Likewise, both the inReach Mini 3 and Mini 3 Plus models also support the Flight Service Adverse Condition Alerting Service (ACAS). If you register for ACAS information, alerts provided via Flight Service prompt you to call for an abbreviated briefing to address specific adverse conditions that might affect your flight-planned routing.

These inReach Mini 3 models are compact, rugged devices featuring bright 1.9" color touchscreen displays. They're rigorously tested to MIL-STD-810 for thermal, shock and impact resistance. Both come with an internal, rechargeable lithium-ion battery supporting up to 350 hours of use in the default 10-minute inReach tracking mode. Plus, there's a backup safety charging feature to help restore a power-depleted phone.

When you fly with inReach global connectivity, you're giving friends and family the peace of mind that comes from knowing they can track your flights and follow your off-grid excursions with a link to contact you anywhere, anytime the need arises.

[1]Jurisdiction restrictions may apply; requires active inReach subscription and paired smartphone
[2]Taking and sending photos requires use of the Garmin Messenger app on your paired smartphone

KEEP IN TOUCH WITH CONVENIENT MESSAGING

With these robust inReach® Messenger or inReach Messenger Plus satellite communicators[1], home is closer than you think. Providing global two-way messaging and interactive SOS, they keep you connected with friends and family even when you're out of cell range.

Use either device to check in with contacts, read and reply to their responses with preset messages, and even share your GPS location data if you like. More detailed texting and group messaging are easy when using the Garmin Messenger™ smart-device app. Or send and receive messages by using your D2™ Mach 2 or D2 Air X15 aviator smartwatch, compatible Garmin handheld or other devices.

For even more connectivity options, the trailblazing inReach Messenger Plus device[1] also lets you exchange photos, 30-second voice notes and longer 1,600-character text messages[2] when you're off the cellular grid.

Both inReach Messenger models provide seamless switching between satellite and cellular/Wi-Fi® wireless networks — when you're not off the grid but have people messaging you through inReach — giving you superior connectivity and cost-effective options for all your communications. And the on-device display gives you the added confidence of knowing that your message has been sent. You'll even see a response that help is on the way in case of emergency.

Each communicator model comes with an internal, rechargeable lithium-ion battery that can support weeks of use in the default 10-minute inReach tracking mode. Plus, there's a backup safety charging feature to help restore a power-depleted phone.

[1]Active satellite subscription required. Some jurisdictions regulate or prohibit the use of satellite communication devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used.
[2]Taking and sending photos requires use of the Garmin Messenger app on your paired smartphone

D2™ MACH 2. EXPERIENCE OUR MOST HIGHLY EVOLVED AVIATOR SMARTWATCH.

Our premium D2 Mach 2 smartwatch takes wrist-based flight technology to whole new levels of capability. You've never seen more advanced flight maps and GPS navigation features on a Garmin watch.

A built-in worldwide aeronautical database supports the dynamic color mapping, providing detailed graphics for airspaces, runways, airports, flight plan overlays and more. Easily pan across the map with a swipe — or zoom with a tap. You can view your flight path on the moving map or use the instrument-like HSI course needle to help stay on course to your destination. Our signature Direct-to and Nearest routing functions will guide you automatically to a selected waypoint or airport.

An interface with your avionics via the Garmin Pilot™ app[1] allows you to transfer flight plans and receive data and alerts on your watch face. Once transferred, all the waypoints on your flight plan route can be listed, viewed and used for navigation right on your smartwatch. What's more, while on the ground, this connection also lets you remotely view the status of your aircraft equipped with PlaneSync™ datalink technology[2].

When paired with your compatible smartphone, the watch's built-in speaker and microphone let you make and take calls from your wrist — or use your phone's voice assistant to compose and respond to text messages, hands-free. You can also use on-device voice commands (such as "Start fly activity," or "Show me the METAR") to access select watch controls and flight functions without a smartphone connection.

How's the weather ahead? Start your day with an aviation morning report to get a briefing on the day's anticipated weather conditions at your current location. Then, by pairing the watch with your smartphone, you can access location-based meteorological reports (METARs) and terminal forecasts (TAFs), as well as NEXRAD radar overlaid on the moving map. When it comes to making go or no-go decisions, a personal minimums feature on D2 Mach 2 lets you set criteria for weather and flight factors — such as crosswind, ceiling, visibility, etc. — and receive alerts if conditions exceed your preset limits.

Other on-wrist vibration alerts let you know when you've drifted off course or reached your selected altitude. A baro-based O_2 altitude alert feature will vibrate to remind you when supplemental oxygen is required above 12,500' — and the watch's wrist-based Pulse Ox sensor[3] helps monitor your body's oxygen levels and adaptation to the thinner air at higher altitudes.

To aid visibility in low-light conditions, an integrated LED flashlight throws a steady beam of illumination in either red light or variable intensities of white light to help guide your way. The watch's 1.4" AMOLED touchscreen display also features a red shift mode to filter out blue light and help maintain your night vision in the cockpit.

Once your flight ends, the watch's automatic flight-logging feature makes recordkeeping simple by automatically transferring the date, duration, total flight time and route to your flyGarmin.com® logbook[4].

Outside the cockpit, D2 Mach 2 supports a wide range of health and fitness features for your active lifestyle. Built-in sports apps give you plenty of ways to boost your fitness. Plus, health monitoring features include wrist-based heart rate[5] (with user-configurable alerts for high or low readings), advanced sleep monitoring, all-day stress tracking, Body Battery™ energy monitoring, hydration and more.

When paired with your smartphone you can access smart notifications to stay in the know on the go. Or use built-in music storage to download songs and podcasts from your favorite providers — including Spotify®, Amazon Music and Deezer[6] — and then connect to your audio panel or wireless headphones (sold separately) for phone-free listening. As you go through your day, Garmin Pay™ contactless payments offer an easy way to make purchases and breeze through checkout lines using only your smartwatch for payment[7].

Designed for all-day, 24/7 wearability, the rugged D2 Mach 2 smartwatch is tested to U.S. military standards for thermal, shock and water resistance. Battery life in smartwatch mode is up to 26 days on the 51 mm model — and up to 14 days on the 47 mm version. Combining classic styling with premium top-grade materials — such as sapphire crystal and titanium — D2 Mach 2 represents our most advanced wearable technology for those invested in the flying life.

[1]Receiving avionics alerts and position data requires the Garmin Pilot app for Apple® mobile devices
[2]Active PlaneSync and database subscriptions required for automatic database updates. Active PlaneSync subscription plan required for flight log uploading. Features are available on-ground only and require GDL® 60 to have active LTE or Wi-Fi® connectivity; signal strength and other factors may apply. See Garmin.com/PlaneSyncCoverage for LTE coverage details.
[3]This is not a medical device and is not intended for use in the diagnosis or monitoring of any medical condition; see Garmin.com/ataccuracy. Pulse Ox not available in all countries.
[4]When paired with a smartphone, with a data connection, and in range of Bluetooth® technology
[5]See Garmin.com/ataccuracy
[6]May require premium subscription by a third-party music provider
[7]View current supported country, payment network and issuing bank information at Garmin.com/garminpay/banks

D2 MACH 2 SPECIFICATIONS

Lens material	Sapphire crystal
Bezel material	Titanium with a scratch-resistant DLC coating
Case material	Fiber-reinforced polymer with titanium rear cover
QuickFit® watch bands	Included (26 mm or 22 mm)
Strap material	51 mm includes a DLC titanium bracelet and a silicone band
	47 mm includes an Italian leather band and a silicone band
Physical size	51 x 51 x 14.7 (mm)
	47 x 47 x 13.8 (mm)
Weight	51 mm w/ titanium bracelet: 92 g (case only: 64 g)
	47 mm w/ leather band: 73 g (case only: 52 g)
Water rating	10 ATM and 40-meter dive-rated
Display type	AMOLED
Display size	1.4" (35.56 mm) diameter
Display resolution	454 x 454 pixels
Battery life	D2 Mach 2 – 51 mm Smartwatch: Up to 26 days (up to 13 days always-on) Battery saver smartwatch mode: Up to 41 days GPS only: Up to 84 hours (65 hours always-on) All satellite systems: Up to 68 hours (54 hours always-on) All satellite systems + multi-band: Up to 62 hours (49 hours always-on)* All satellite systems + music: Up to 18 hours Max battery GPS: Up to 145 hours Expedition GPS: Up to 31 days Fly activity (GPS + SpO2): Up to 58 hours *Assuming typical use with SatIQ™ technology.
	D2 Mach 2 – 47 mm Smartwatch: Up to 14 days (7 days always-on) Battery saver smartwatch mode: Up to 23 days GPS only: Up to 47 hours (37 hours always-on) All satellite systems: Up to 38 hours (30 hours always-on) All satellite systems + multi-band: Up to 35 hours (28 hours always-on)* All satellite systems + music: Up to 10 hours Max battery GPS: Up to 81 hours Expedition GPS: Up to 17 days Fly activity (GPS + SpO2): Up to 37 hours *Assuming typical use with SatIQ technology.

GARMIN
Today 1:03 PM
We are going to head out just after breakfast
Let me know when you get there
Sounds good! I'll message you when
get to camp

D2™ MACH 2 PRO.
THE EVOLUTION CONTINUES WITH INREACH® TECHNOLOGY.

Bringing forward all the advanced color mapping and flight technology features of the original D2 Mach 2 smartwatch, the Pro model takes the concept a step beyond — featuring built-in inReach technology[1] for satellite and LTE network connectivity with no cellphone pairing required.

Keep in touch between flights with voice calls and LiveTrack™ location sharing from your watch when it's connected to an LTE network with the on-device Garmin Messenger™ app. Or, if your travels take you beyond cell tower range, use the inReach connection to send messages and location check-ins once you've established a satellite link. Your active inReach subscription plan lets you connect with friends and family, phone-free, from on- or off-grid locations. And, if things go sideways, you can always trigger an interactive SOS message to Garmin Response℠, our 24/7-staffed international coordination center.

The Skylo satellite network used by the D2 Mach 2 Pro smartwatch provides coverage across the continental U.S., sections of Canada and most of Europe. Because the Skylo satellites are in a geostationary orbit, your watch must be able to "see" the satellite above the horizon to receive its signal. Satellites will appear lower on the horizon as you move farther north.

Purpose-built for aviators, the D2 Mach 2 Pro brings you the latest generation of wearable flight tools, including dynamic color aeronautical mapping, instrument-like HSI course needle, Direct-to navigation and more. Graphical map details show you airspaces, runways, airports and flight plan routing overlays. Plus, your LTE connection lets you access location-based meteorological reports (METARs) and terminal forecasts (TAFs), as well as NEXRAD radar overlaid on the moving map. An aviator's morning report starts your day with a quick briefing on the anticipated weather conditions at your current location. And a helpful personal minimums feature lets you set and monitor limits for conditions such as crosswind, ceiling, visibility and more. You'll get on-device alerting if conditions exceed your preset limits, with the exceedance highlighted on the watch face's METAR.

Other pilot-oriented connectivity features include an interface with your avionics via the Garmin Pilot™ app[2], which allows you to transfer flight plans and receive alerts on your watch face. To simplify access, you can use voice commands to get METAR information, start a flight, select a destination, or initiate other watch controls and flight functions. If your aircraft is equipped with a PlaneSync™ datalink[3], you can also use your smartwatch prior to leaving for the airport to see if your plane has been fueled and if its avionics databases are up to date. At journey's end, your watch's autologging feature[4] helps streamline the postflight paperwork by sending details such as the date, duration, route and total time aloft to your flyGarmin.com® online logbook.

To help you stay fit to fly, your D2 watch encourages you to stay active with a wide range of sport-specific apps, including easy-to-follow preloaded workouts for strength, cardio, HIIT, yoga and other areas of focus. Plus, 24/7 health and wellness monitoring features include wrist-based heart rate[5], advanced sleep monitoring, all-day stress tracking, Body Battery™ energy monitoring, Pulse Ox[6] and more.

Other premium highlights include a bright 1.4" AMOLED display, DLC-coated titanium bezel, scratch-resistant sapphire lens and a powerful built-in LED flashlight with variable intensities of white light plus a red light setting to help preserve your night vision in the cockpit. Thermal and shock resistant to MIL-STD-810, the D2 Mach 2 Pro watch is built for all-day wearability, even in challenging environmental conditions. It has a 40-meter dive rating, up to 26 days of battery life in smartwatch mode, and all the connectivity features — including smart notifications when paired with your smartphone, music storage and Garmin Pay™ contactless payments[7] — to bring a new level of convenience to your on-the-go aviator lifestyle.

D2 MACH 2 PRO SPECIFICATIONS

Lens material	Sapphire crystal
Bezel material	Titanium with a scratch-resistant DLC
Case material	Fiber-reinforced polymer with titanium rear cover
QuickFit® watch bands	Included (26 mm)
Strap material	Premium leather band and a QuickFit™ silicone band
Physical size	51 x 51 x 16.5 (mm)
Weight	90 g (case only: 65 g)
Water rating	10 ATM and 40-meter dive-rated
Display type	AMOLED
Display size	1.4" (35.56 mm) diameter
Display resolution	454 x 454 pixels
Battery life	Smartwatch mode: Up to 24 days (12 days always-on) Battery-saver smartwatch mode: Up to 34 days GPS only: Up to 78 hours (56 hours always-on) All satellite systems: Up to 60 hours (47 hours always-on) All satellite systems + multi-band: Up to 53 hours (41 hours always-on) All satellite systems + multi-band + LTE LiveTrack™: Up to 21 hours (19 hours always-on)* All satellite systems + multi-band + music: Up to 23 hours (21 hours always on)* All satellite systems + multi-band + music + LTE LiveTrack™: Up to 15 hours (14 hours always on)* Max battery GPS: Up to 123 hours Expedition GPS: Up to 24 days Fly activity (GPS + SPO2): 59 hours*

*Assuming typical use with SatIQ™ technology.

[1]Active satellite subscription required. Some jurisdictions regulate or prohibit the use of satellite communication devices. It is the responsibility of the user to know and follow all applicable laws in the jurisdictions where the device is intended to be used.
[2]Receiving avionics alerts and position data requires the Garmin Pilot app for Apple® mobile devices
[3]Active PlaneSync and database subscriptions required for automatic database updates. Active PlaneSync subscription plan required for flight log uploading. Features are available on-ground only and require GDL® 60 to have active LTE or Wi-Fi® connectivity; signal strength and other factors may apply. See Garmin.com/PlaneSyncCoverage for LTE coverage details.
[4]When paired with a compatible smartphone, with a data connection, and in range of Bluetooth® technology
[5]See Garmin.com/ataccuracy
[6]This is not a medical device and is not intended for use in the diagnosis or monitoring of any medical condition; see Garmin.com/ataccuracy. Pulse Ox not available in all countries.
[7]See current supported country, payment network and issuing bank information at Garmin.com/garminpay/banks

Optional band sold separately.

D2™ AIR X15.
PILOT YOUR WAY THROUGH THE DAY.

Designed for life in and out of the cockpit, the D2 Air X15 is the aviator smartwatch built to fly through your day with Garmin piloting tools and the latest training, fitness and wellness features to help you perform at your best.

Featuring a bright 1.4" AMOLED display and built-in LED flashlight with both red and variable-intensity white light settings, the watch comes equipped for flight with a worldwide aeronautical database, HSI course needle, and our signature Direct-to and Nearest routing functions to help guide you to a selected waypoint or airport.

Other tools for flight include: METARs and TAFs[1], nearest airports, altimeter, alerts, timers and more. With the Garmin Pilot™ app[2], you can transfer flight plans and receive data and alerts from your avionics. Then, once transferred, all the waypoints on your flight plan route can be listed, viewed and used for navigation on your watch. Prior to leaving for the airport, this Garmin Pilot connection also lets you remotely view the status of your aircraft (Got fuel? Databases updated?) when it's equipped with our PlaneSync™ datalink technology[3]. Then, at journey's end, your smartwatch simplifies postflight paperwork by automatically transferring[1] the date, duration and other details to your flyGarmin.com® logbook.

For hands-free convenience, the watch's voice command feature lets you use spoken prompts ("Show me the weather") to access select watch controls and flight functions without a smartphone connection. Various alerts and timers provide reminders for inflight tasks — such as using supplemental oxygen or changing fuel tanks. You can also use the watch's Pulse Ox sensor[4] to check your body's oxygen levels and gauge how you're adjusting to higher altitudes in flight.

Before departure, you can reference the watch's aviation morning report to get a briefing on anticipated weather conditions at your current location. You might also get in a quick workout or check your wellness status with the watch's advanced health and fitness features, including wrist-based heart rate[5], Health Snapshot™, Body Battery™ energy levels, sleep score, all-day stress tracking, hydration and more. You'll find a wide range of toolsets to support your active lifestyle — from built-in sports apps and animated workouts to your choice of Garmin Coach adaptive training plans.

To stay connected on the go, pair your D2 Air X15 with your smartphone and enjoy the convenience of making and taking calls from your wrist[1]. A handy voice notes feature lets you drop georeferenced voice memos for later reminders. You can also access smart notifications and even use your phone's voice assistant to dictate and respond to text messages, hands-free. For your musical enjoyment, download favorite tunes[6] from Spotify, Amazon Music or Deezer and connect to wireless headphones for phone-free listening. To fast-track your time in checkout lines, use our Garmin Pay™ contactless solution[7] to pay for purchases while leaving your cash and cards at home. With up to 10 days of battery life in smartwatch mode, D2 Air X15 has the energy to power through your daily adventures and keep going strong.

D2 AIR X15 SPECIFICATIONS

Lens material	Corning® Gorilla® Glass 3
Bezel material	Stainless steel
Case material	Stainless steel and fiber-reinforced polymer
Quick Release band	Yes (22 mm)
Strap material	Black silicone
Physical size	45 x 45 x 12.5 (mm)
Weight	56 g with included band (case only: 38 g)
Water rating	5 ATM
Display type	AMOLED
Display size	1.4" (35.3 mm) diameter
Display resolution	454 x 454 pixels
Battery life	Smartwatch mode: Up to 10 days (4 days always-on) Battery-saver smartwatch mode: Up to 25 days GPS-only GNSS mode: Up to 20 hours All-systems GNSS mode: Up to 19 hours All-systems GNSS mode with music: Up to 9 hours All-systems GNSS mode + multi-band: Up to 17 hours All-systems GNSS mode + multi-band with music: Up to 9 hours Fly activity (GPS + SpO2): 20 hours

[1]When paired with a smartphone, with a data connection, and in range of Bluetooth® technology
[2]Receiving avionics alerts and position data requires the Garmin Pilot app for Apple® mobile devices
[3]Active PlaneSync and database subscriptions required for automatic database updates. Active PlaneSync subscription plan required for flight log uploading. Features are available on-ground only and require GDL® 60 to have active LTE or Wi-Fi® connectivity; signal strength and other factors may apply. See Garmin.com/PlaneSyncCoverage for LTE coverage details.
[4]This is not a medical device and is not intended for use in the diagnosis or monitoring of any medical condition; see Garmin.com/ataccuracy. Pulse Ox not available in all countries.
[5]See Garmin.com/ataccuracy
[6]May require premium subscription by a third-party music provider
[7]View current supported country, payment network and issuing bank information at Garmin.com/garminpay/banks

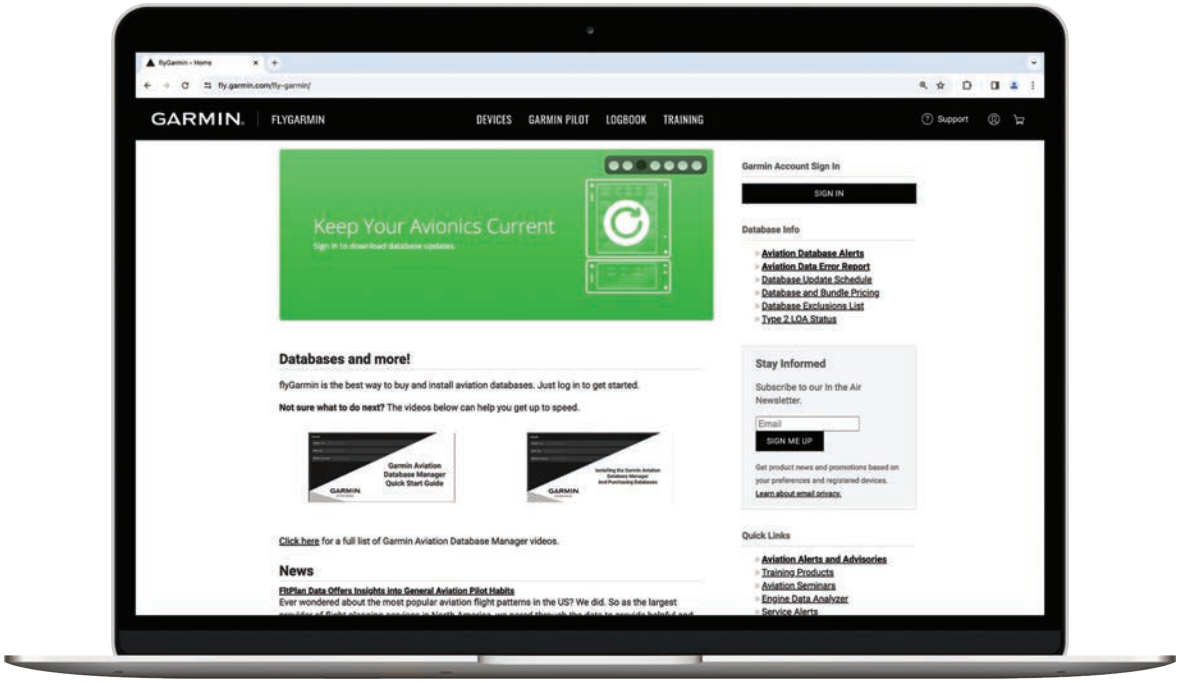
HIGHER-PRECISION GPS FOR YOUR TABLET OR MOBILE DEVICE WITH GARMIN GLO™

If you've tried to do airborne navigation with the typical built-in GPS on many of today's tablet computers or other smart devices, you know how frustrating that can be. Too often these units simply aren't up to the task of providing the robust, high-precision guidance you expect from a Garmin-grade GPS navigator. That's why it makes sense to upgrade your signal with a Garmin GLO™ portable receiver. This light, compact, easy-to-use portable solution is able to receive its position information from both GPS and GLONASS constellations, adding 24 extra satellites to the mix – and assuring you of the best, most accurate positioning solutions worldwide. Your GLO wireless sensor can lock on to satellites some 20% faster than most single-network receivers. And its high-capability 10 Hz receiver updates its position information up to 10 times more frequently than the garden-variety GPS sensors used in many mobile devices. GLO works seamlessly with a variety of apps, including Garmin Pilot™, to turn your Apple iPad® or other Apple®- or Android™-based mobile device into a true go-anywhere moving map navigator. In fact, your GLO even comes with a 6-month free trial of our Garmin Pilot™ app to make your choice even simpler.

Featuring easy BLUETOOTH® connectivity, the GLO pairs wirelessly with up to four compatible devices simultaneously. Just set GLO within range of your mobile device, and in moments you'll be receiving GLO's enhanced position data. With up to 13 hours of battery life, your GLO can go a long, long way between recharges. And even then, charging your GLO between uses is easy with the included USB cable or optional 12/24 volt cigarette lighter adapter. For optimum reception, an optional friction mount is available to keep your GLO safely positioned atop your aircraft's panel – in full view of all available satellites, both foreign and domestic. Garmin GLO: It's all about bringing you the best of both worlds in satellite-based portable navigation.

SPECIFICATIONS

Receiver	WAAS-enabled GPS plus GLONASS
Update rate	10 Hz
Accuracy	+/- 3 meters
Battery life	Up to 13 hours
Size	0.70"W x 1.65"H x 3.04"D
Weight	2.12 oz (60.1 g)



MANAGE YOUR DATABASE SUBSCRIPTIONS, LOGBOOKS AND MORE WITH FLYGARMIN.COM

Your Garmin GPS comes complete with an extensive aviation database. It's the mainstay of your unit's moving map navigation capabilities. In addition, other databases found on select Garmin portables include Garmin FliteCharts®, SafeTaxi®, Airport Directory, plus terrain alerting, towers/obstacles databases and much more.

Over time, as airport and airspace information changes, your databases will require updating. Fortunately, Garmin makes the process easy. Just create an account on flyGarmin.com and purchase your databases. Your device will automatically update when it connects to your Wi-Fi® network.

As an added incentive, Garmin's bundled pricing program for the aera® series navigators offers multi-database annual updates at a cost of up to 50% less than data sets purchased individually. From the moving-map navigation data, obstacles and terrain databases to graphical FlightCharts®, SafeTaxi® and AOPA Directory information, Garmin's new portable update packages make it easier and more affordable to keep all your aviation databases up to date. Spending less while getting more: That's what Garmin value is all about.

Wi-Fi is a registered trademark of the Wi-Fi Alliance.

FLY WITH WEATHER, TRAFFIC AND GPS WHILE WATCHING YOUR ATTITUDE

The GDL® 52 portable receiver is the ideal 1-box, dual-network solution for your flying. Now, with this compact antenna/receiver in your aircraft, you have access to a whole new level of "glass cockpit" type flight information. Providing an easy-to-use and totally portable aviation satellite link, the GDL 52 combines SiriusXM® Aviation service coverage — accessible from ground or air — with the subscription-free weather and traffic features of an ADS-B "In" datalink[1]. Together, these two network link technologies bring a world of safety-enhancing features, plus access to more than 150 channels of digital-quality music, news, sports and other entertainment programming[2] directly to your cockpit.

Continuous SiriusXM satellite updates — accessible by ground and air — help you make better, more timely flight decisions. The SiriusXM network's powerful satellites deliver seamless coverage across the continental United States and its coastal regions, as well as southern Canada. Choose from available SiriusXM Aviation packages that provide METAR data and animated NEXRAD imagery, plus current reports on precipitation, lightning, winds aloft, echo tops, turbulence, freezing levels, TFRs and more.

Using the Garmin Pilot™ app, you can view all this data on your Apple iPad® or other compatible Apple® or Android™ devices[3]. And you can even split the display on your iPad screen to show traffic and weather overlaid on the moving map, while monitoring your backup attitude on synthetic vision (SVX). It's like having a virtual flight deck you can pack in your flight bag. Similarly, if you own an aera® 660/760 or 796/795 series portable, the GDL's weather and traffic uplinks are also compatible with these products, and it will provide Garmin SVX™ synthetic vision and attitude command bar functionality as well.

On the audio entertainment side, you can simply sync a compatible headset enabled with BLUETOOTH® technology with your GDL 52 to wirelessly access an industry-leading digital playlist with audio-entertainment channels tailored to your tastes and interests. If you prefer, you can also opt to hardwire the GDL 52 through your compatible audio panel (or use the wireless connectivity of Garmin Connext®) for routing through the cabin headsets. A 3.5 mm audio jack positioned on the side of your GDL 52 makes it easy to provide audio out to an auxiliary source or audio panel in your aircraft.

You can gain addition awareness options with the GDL 52, including continuously broadcasts in the U.S. of ADS-B weather on the 978 MHz universal access transceiver frequency, so you can access NEXRAD imagery, METARs, TAFs, winds and temperatures aloft, PIREPs, NOTAMs and more[4]. Along with this, you can also receive ADS-B traffic position

reports (and threat-level symbology) to help you see and avoid converging targets in busy airspace. Spoken audio alerts call out potential flight path conflicts ("Traffic, traffic.") to get you looking right away. Meanwhile, on your screen, our patented TargetTrend™ relative motion display[5] offers a faster, more intuitive way of judging target trajectories and closure rates in relation to your flight path. As an added safety feature, Garmin TerminalTraffic™ technology supports the display of ADS-B equipped surface targets on the map screen to help you keep track of other aircraft or ground vehicles that may be moving in your vicinity on the airport.

The GDL 52 is by far one of the simplest and smartest ways to gain the benefits of ADS-B technology. It's a dual-link system, so it can receive on both ADS-B frequencies (978 MHz and 1090 MHz) authorized for ADS-B operations in the U.S. However, for best traffic uplink results, your aircraft needs to be a "participant" in the ADS-B system and have an approved ADS-B "Out" system (such as a 1090 MHz extended squitter transponder) on board. The GDL 52 does not provide this "Out" function, but it can serve as an affordable "In" receiver to access the benefits of ADS-B weather and traffic data, subscription-free.

Of course, depending on your needs, you can also consider the compact GDL® 51 SiriusXM receiver, which lets you access continuous aviation weather information, in-flight entertainment programming, and other GPS, speed and altitude features of the GDL 52, but without ADS-B "In" access. Or you may consider the GDL® 50, which provides ADS-B "In" and GPS, speed and altitude data, without SiriusXM access or subscriptions. Whichever model in the GDL 52 series you choose, you'll always get a versatile datalink solution with a wide array of additional capabilities to help you increase your situational awareness and enjoy your flying more.

SPECIFICATIONS

Operating temp	-20°C to +60°C (-4°F to 140°F)
Operating altitude	To 55,000 ft
Power input	10 to 32 VDC; 3.5 W max
Battery type	Lithium-ion rechargeable (built-in)
Battery life	Up to 5 hours with GDL52
	Up to 7 hours with GDL 51
	Up to 8 hours with GDL 50
Unit size	4.9" W x 1.3"H x 3.4"D
Weight	0.75 lbs (0.34 kg)

[1]The GDL 52 is a noncertified receive-only product; it does not provide ADS-B "Out" capability to satisfy FAA mandate requirements
[2]SiriusXM subscription required (sold separately); see SiriusXM.com/aviation
[3]See Garmin website or dealer for our growing list of compatible devices
[4]Not all FIS-B weather products may be available on all Garmin displays; please check your Pilot's Guide for the specifics on your product
[5]Both the audible traffic alerting feature and TargetTrend require compatible displays; please check your Pilot's Guide for specific capabilities available on your display

GARMIN
GPS AP YD
GARMIN
GPS | AP YD
FEATHER
REVERSE

PORTABILITY MEETS CONNECTIVITY WITH GARMIN CONNEXT®

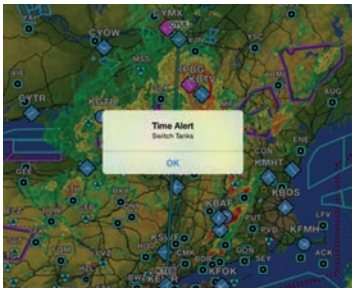
Whether it's a datalink that brings weather and traffic information from a nationwide ADS-B network or a localized BLUETOOTH® wireless connection between individual devices, wireless technology is revolutionizing how pilots use and connect with their portable devices in the cockpit. Garmin's flight data connection services (known collectively as Garmin Connext) provide the means to wirelessly link people, devices and information – on the ground and in the air.

For example, you can use Connext – via one of the Garmin Flight Stream series of cockpit-mounted transceivers – to stream information in real time between your Apple iPad® (or other compatible mobile device) and your avionics. Using our Garmin Pilot™ app, it's easy to preload flight plan data onto your tablet or smart device, whenever and wherever it's convenient. Then, once you're ready to go to the airport, use Connext to wirelessly upload the data – waypoints, airway routings and all – into your plane's compatible avionics during preflight. It's fast. It's easy. It's seamless. And, even better, keeping flight plans in sync between your device and your avionics is a cinch: You enter the data on one device, and with a tap or two, your entries are automatically transferred to the other. So there's no duplication of effort on your part when it comes to keeping everything in sync. Moreover, by streaming data from your avionics to your iPad, you can also integrate the tablet's map and flight displays with graphical weather, traffic, GPS position reference, and backup attitude reference[1] and 3-D synthetic vision displays – virtually turning your mobile device into a touchscreen flight display.

As you can see, today's aviation world is becoming a far more interactive, information-driven environment than ever before. Which is why you'll be seeing more and more Garmin portable products with Connext capability built right in – allowing wireless access, control and sharing of information between multiple devices.

In so many ways, both large and small, the links made possible by Garmin Connext are already redefining how pilots view, control and access all their electronic connections in the cockpit.

In addition to ADS-B weather and traffic, you can also view 3-D synthetic vision and backup attitude reference[1] provided by the GDL® 39 3D portable ADS-B receiver.



Using the Garmin Pilot app on your mobile device, you can link and view text messages, calendar notifications and other alerts on your D2™ series pilot watch.

[1]Not intended to be used as a source of attitude information for flight in instrument meteorological conditions and should not be used under these conditions

TOTAL SUPPORT AT YOUR FINGERTIPS

Pilots are attracted to our GPS portables for any number of valid reasons — innovative designs. Quality construction. Useful features. Smart technology. Compact size. Value pricing. Simple operation.

But, in the end, it's the total support we put behind every product in our lineup that turns first-time Garmin buyers into loyal, long-term Garmin customers.

We want you to have a great user experience with any and every Garmin product you select.

- That's why every Garmin product is warranted to be free from defects in materials or workmanship for one full year from your date of purchase.
- That's why you'll find more than 700 authorized service centers standing by to support our aviation customers in virtually every corner of the globe.
- And that's why Garmin attracts and hires some of the industry's brightest technical minds to serve in our factory support positions. They're also pilots who speak aviation. And their troubleshooting expertise is available by phone or online – whenever you have a question or service issue that demands the right answer, right now!

No other manufacturer does more to put total navigation confidence at your fingertips.

GARMIN®

GARMIN INTERNATIONAL, INC.

Garmin.com/aviation

1200 East 151st Street, Olathe, KS 66062
p: 866.739.5687 f: 913.397.8282

GARMIN (EUROPE) LTD.,
Liberty House, Hounsdown Business Park
Southampton, Hampshire, SO40 9LR, U.K.
p: +44 (0)87.0850.1243 f: +44 (0)23.8052.4004

GARMIN SINGAPORE PTE. LTD.,
46 East Coast Road #05-06, Singapore 428766
p: 65.63480378 f: 65.63480278
e: avionics.asia@garmin.com

©Garmin Ltd. or its subsidiaries. All rights reserved
Specifications and descriptions are preliminary and subject to change without notice.
© 2026 Sirius XM Radio LLC. SiriusXM and all related logos are trademarks of Sirius XM Radio LLC and its respective subsidiaries. All rights reserved.
iPad, iPhone and Apple are trademarks of Apple Inc., registered in the U.S. and other countries.
Android is a trademark of Google LLC.
Jeppesen is a registered trademark of Jeppesen Sanderson, Inc. its subsidiaries or affiliated companies.
The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by Garmin is under license.
SPOTIFY and the Spotify logo are among the registered trademarks of Spotify AB.
Amazon Music and all related logos are trademarks of Amazon.com, Inc. or its affiliates.

M02-10114-00 0326