

# G5 Electronic Flight Instrument Pilot's Guide for Certified Aircraft (includes the GFC 500)





**SYSTEM OVERVIEW**

**FLIGHT INSTRUMENTS**

**AFCS**

**ADDITIONAL FEATURES**

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This manual reflects the operation of System Software version 6.81 or later. Some differences in operation may be observed when comparing the information in this manual to earlier or later software versions.

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### **BATTERY WARNINGS:**

*If these guidelines are not followed, the lithium-ion battery may experience a shortened life span or may present a risk of damage to the device, fire, chemical burn, electrolyte leak, and/or injury.*

- *Do not leave the battery exposed to a heat source or in a high temperature environment. To help prevent damage, store the battery out of direct sunlight.*
  - *For maximum battery longevity, store within a temperature range of -4°F to 68°F (from -20°C to 20°C).*
  - *Do not use a sharp object to remove the battery.*
  - *Do not disassemble, puncture, damage, or incinerate the device or battery.*
  - *Keep the battery away from children.*
  - *Only replace the battery with the approved replacement from Garmin. Using another battery presents a risk of fire or explosion. To purchase a replacement battery, see you Garmin dealer or the Garmin website.*
  - *Contact your local waste disposal department to dispose of the device and battery in accordance with applicable local laws and regulations.*
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**WARNING:** *To reduce the risk of unsafe operation, carefully review and understand all aspects of the Pilot's Guide. Thoroughly practice basic operation prior to actual use. During flight operations, carefully compare indications from the G5 to all available flight displays. For safety purposes, always resolve any discrepancies.*

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**WARNING:** *The altitude calculated by the G5 internal GPS receiver is geometric height above Mean Sea Level and could vary significantly from the altitude displayed by pressure altimeters. Always use the pressure altitude display, when available, for determining or selecting aircraft altitude.*

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**WARNING:** *The United States government operates the Global Positioning System and is solely responsible for its accuracy and maintenance. The GPS system is subject to changes which could affect the accuracy and performance of all GPS equipment.*

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**WARNING:** For safety reasons, the G5 operational procedures must be learned on the ground.

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**WARNING:** This product, its packaging, and its components contain chemicals known to the State of California to cause cancer, birth defects, or reproductive harm. This Notice is being provided in accordance with California Proposition 65. If you have any questions or would like additional information, please refer to our website at [www.garmin.com/prop65](http://www.garmin.com/prop65)

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**CAUTION:** The display uses a lens with a special coating that may be sensitive to certain oils, waxes, and abrasive cleaners. **CLEANERS CONTAINING AMMONIA WILL HARM THE ANTI-REFLECTIVE COATING.** It is very important to clean the lens using a clean, lint-free cloth and a cleaner that is specified as safe for anti-reflective coatings. Avoid any chemical cleaners or solvents that can damage plastic components.

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**CAUTION:** The G5 does not contain any user-serviceable parts. Repairs should only be made by an authorized Garmin service center. Unauthorized repairs or modifications could result in permanent damage to the equipment and void both the warranty and the authority to operate this device under FAA, FCC, and other applicable regulations.

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**NOTE:** The G5 may only be installed in type-certificated aircraft in accordance with Garmin STC SA01818WI.

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**NOTE:** The term LRU, as used throughout this manual is an abbreviation for Line Replaceable Unit. LRU is used generically in aviation for a product (such as a GSA 28 or GMC 507) that can be readily "swapped out" (usually as a single component) for troubleshooting/repair.

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**NOTE:** *The G5 has a very high degree of functional integrity. However, the pilot must recognize that providing monitoring and/or self-test capability for all conceivable system failures is not practical. Although unlikely, it may be possible for erroneous operation to occur without a fault indication shown by the G5. It is thus the responsibility of the pilot to detect such an occurrence by means of cross-checking with all redundant or correlated information available in the cockpit.*

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**NOTE:** *All visual depictions contained within this document, including screen images of the G5 display, are subject to change and may not reflect the most current G5 functionality.*

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**NOTE:** *Use of polarized eyewear may cause the display to appear dim or blank.*

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## **DECLARATION OF CONFORMITY**

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Hereby, Garmin declares that this product is in compliance with the Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address [www.garmin.com/compliance](http://www.garmin.com/compliance).

### **FCC**

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This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

## **LICENSE AGREEMENT AND WARRANTY**

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### **CONTACT GARMIN**

Contact Garmin if you have any questions while using the G5 at [www.flygarmin.com](http://www.flygarmin.com).

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Part Number	Change Summary
190-01112-12	Initial release.

Rev	Date	Description
1	July, 2017	Production Release.
2	April, 2017	Added G5 HSI.
3	October, 2017	Added autopilot interface
A	December, 2017	Added GMC 507/GFC 500 interface Updated AFCS Status Display throughout Added Electronic Stability & Protection (ESP) Added 'Unable to Charge Battery' indication Added ability to configure Sky Pointer or Ground Pointer Other miscellaneous updates for current Software Version 5.00
B	December, 2017	Updated printing instructions
C	July, 2018	Added VNAV display capability
D	July, 2019	Added GAD 13 functionality Updated images throughout
E	August, 2019	Clerical corrections and clarifications
F	January, 2020	Updated VNAV functionality
G	November, 2020	Updated to reflect software version 6.81

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