GARMIN.

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AVIATION SERVICE DOCUMENT NOTIFICATION

TO: Garmin G500H Owner and Operators

DATE: March 11, 2020

SUBJECT: G500H GDU Main Software Version 7.36, GDC 74H Software Version 3.11, and added AS350 B2/B3 and EC130 rotorcraft

**CERTIFICATION
AUTHORIZATION:** STC SR02295LA

COMPLIANCE

Optional: This STC Service Bulletin may be incorporated at the owner's discretion and is not warranty reimbursable.

PURPOSE

STC SR02295LA MDL Revision 8 includes the following:

- New rotorcraft approvals:
  - AS350 B2/B3
  - EC130 rotocraft
- New LRU approvals:
  - GSU 75H ADAHRS (AHRS Software v2.07 and ADC Software v2.06)
  - GRS 79H AHRS (Software v2.07)
  - GDC 72H ADC (Software v2.06)
- New LRU software:
  - GDU Main Software Version 7.36
  - GDC 74H Software Version 3.11

GDU Main Software Version 7.36 provides the following to all models on this AML STC:

- MFD Functions:
  - Removed ADS-B ground targets from the display when the SURF application is not supported or is not on.
  - Display of flight plan information on the MFD maps and the Active Flight Plan page has been enhanced to support visual approaches from GTN.
  - Add TFR range option in map menu for GFDS/FIS-B without XM.
  - Decluttered range to altitude arc on map at high zoom ranges.

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- PFD Functions:
  - Display the heading digits in yellow on the PFD when configured for a GRS 77 AHRS and the input indicates that the heading is unreliable.
  - Changed the decluttering of the PFD under extreme attitude so that ground speed remains visible but OAT, wind, bearing pointers, and the glide slope label are hidden.
  - On G500H with right-hand PFD, moved the On-Scene indicator to the bottom-right corner of the ADS-B Traffic page so it is not obstructed by other fields.
  - Changed min/max for radar altimeter minimums setting.
  - Turn Minimums Box on when function is on (RA or Baro Min).
  - Support to display Enhanced Descent-Only (EDO) VNAV Guidance from the GTN 6XX/7XX.
  - Support to display CDI/VDI Preview.
- System Functions:
  - Added Chart Streaming which allows multiple displays to quickly share the latest charts database.
  - Support barometric minimums above 9990 feet.

GDU Main Software Version 7.36 provides the following to Airbus models AS350 and EC130 on this AML STC:

- MFD Changes:
  - Changes to moving map feature:
    - Improved map autozoom functionality to reduce nuisance map zoom changes.
    - Improved declutter of obstacles based on relative altitude.
    - Allow terrain and topo data to be enabled simultaneously.
    - Added display of powerlines on the moving map and dedicated terrain page.
    - Added a pilot-selectable function to deemphasize airspaces using criteria based on aircraft altitude relative to the airspace vertical limits.
    - Added a pilot-selectable depiction of where the aircraft is predicted to reach the altitude selected on the PFD altitude alerter using small arc in front of the aircraft on the moving map.
    - Improved information overlay and user controls for map pan mode.
    - Changed map depiction of VOR compass roses from a 10NM radius to a 2.5NM radius.
    - Prevented the MFD map from changing orientation from North Up to Track Up when zooming in pan mode.
  - Changes to Terrain/Obstacle/Powerline Alerting Functions:
    - Allow HSVT to be enabled on the GDU 620 at the same time as HTAWS on the GTN (with GTN v6.00 or later).
    - When HSVT is enabled, aural and visual alerts for powerlines are provided in a manner consistent with previously-implemented terrain and obstacle alerts.
  - Changes in display of traffic data:
    - Display of ADS-B traffic on the dedicated traffic page and moving map.

- ◦ Changes in display of datalink weather data:
  - ◦ Display of additional datalink weather products received from the GDL 69.
  - ◦ Display of FIS-B data received via the GDL 88 on the dedicated weather pages and overlay some products on the moving map.
  - ◦ Display of text and graphical weather products as provided by the GSR 56 Iridum datalink.
  - ◦ Added display of METAR data for airports with 3-letter identifiers.
- ◦ Changes to other MFD functions:
  - ◦ Controls for GSR 56 Iridium phone via a dedicated MFD page.
  - ◦ Geo-Referenced FliteCharts.
  - ◦ Display of full-screen external video.
- • PFD Changes:
  - ◦ Display of a clock or count-up timer on the PFD and the addition of softkeys to control the timer/clock functions.
  - ◦ Improvements to the display of vertical speed:
    - ◦ Improved filtering of vertical speed and improved digital readouts of vertical speed on the PFD.
    - ◦ Added display of configurable vertical speed limitations as red bands on the PFD's vertical speed indicator.
  - ◦ User-configurable HSI scale
  - ◦ Added a radar altimeter audio alert that triggers when descending through 100 feet / 30 meters.

• New Airbus AS350/EC130 Interfaces:

Table 1. Airbus AS350/EC130 Interfaces

Function	Unit
Traffic	GTX 33/33D/330/330D/330ES
	GTS 800/820/825/850/855
	KTA 810
	KMH 820
	SKY 497/899
	TAS 600/610/620 (9900BX)
Datalink	GDL 88H
Video	EVS-1500
Serial Altitude	GTX 32/327/33/33D GTX 330(ES)/330D(ES)
Audio	KMA 24
	KMA 24H-70/71
	KMA 26
	KMA 28
	GMA 35(c)/350(c)
	GMA 340
	GMA 347
	SL 15
	SL 15M
	SL 10S
	SL 10MS
	SL 10
	SL 10M
	PMA 6000
	PMA 7000 Series
	PMA 8000 Series

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Table 1. Airbus AS350/EC130 Interfaces

Function	Unit
Rad Alt	RA-4500*
	GRA 55/5500
	KRA 405B*

* This equipment was previously approved in Airbus AS350. New approval is for the Airbus EC130 only.

PRODUCTS AFFECTED

G500H systems installed in rotorcraft under STCs SR02295LA, SR09575RC, or SR09576RC are affected.

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