

Flytec 6030 SW

SW Release Notes

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English

V 3.29o from 21/10/09

- Bugfix EEPROM write cycles. The number of write cycles is reduced now by factors to optimize the EEPROM access. This should reduce problems with the so called "memory problem".
- Bugfix CTR recognition: CTRs which have been far away were in the list with distance 0.
- Acoustic CTR Alarm on/off -> Main Setup Menu -> Settings -> CTR Alarm.
- New info page with nearest CTR's. This page will be invoked with the ⓘ key and shows the three next CTR's. The next CTR is checked every second, the second every 20 seconds and the third every 40 seconds. All other CTR are checked according to the CTR list, every second one CTR.
- The CTR alarm in the info line at the bottom is reduced to CTR 0.00. The name and the info line of this CTR is not displayed anymore, because this information is visible on the new info page.
- If the SMS is active and a valid connection via Bluetooth to the mobile phone network is established, function key F1 is „Send SMS“. With this function it is possible to send an SMS manually e.g. to inform someone else where the pilot has landed.
- GPS type is displayed in the Startup screen
- Automatic Switch off after 30 minutes with no GPS reception or 30 minutes after end recording if the flight analysis page remains.
- Bugfix in flight analysis. A1 and A2 were wrong, if part of the flight was below sea level.
- Bugfix in flight recognition. An erroneous jump in altitude gave excess numbers of vario in the flight analysis. It is not clear if this change eliminates the problem completely. Please give feedback if you see excess vario numbers in the flight analysis again.

V 3.29d from 3/8/09

- Fastrax Module running. Automatic recognition of GH-81 or Fastrax
- FLARM Debugversion working
- Bugfixes SMS via Bluetooth

V 3.28y from 01/7/09

- Fastrax with SiRF protocol. FLARM Timing not yet implemented
- Bugfix freeze after CTR and Bluetooth settings

V 3.28w from 30/4/09

- Stable version with Fastrax, Fastrax remains switched on in Menu
- Bugfix Scale in Map-Mode in the flight analysis,
- Recording intervall 1s possible again.

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V 3.28p from 23/03/2009

- Setting of Smoothing und Dynamic Index of the GPS-Module in Factory Settings
- Bugfix vario jump in case of start recording
- First Flylink functions for internal tests
- Passive Bluetooth Pairing
- Bugfix in route entry
- Acoustic CTR approach signal
- Displaykontrast +-1V for new LCD types (Factory settings)
- map scale units changed to even numbers
- Unit of sink tone threshold changed.
- New Userfield "QNH inHg".
- Sinkalarm up to -12.6m/s .
- After the last waypoint in a competition route, the last waypoint remains active (goal line function)

V 3.28k from 23.10.2008

- New accutype Golden Power 2100 settable in the instrument settings
- Bugfix Priority in IGC file with real time clock settings (time jumps in IGC file)
- Bugfix Reset- Sequence in differential pressure sensor (pitot sensor)
- New sentences in communication protocol : waypoint attribute, Comp-Route radii, read out of flight analysis page values. See document "Interface definition 061008.pdf"
- Battery monitoring in Menumode
- Bugfix in route setting (Xxxx Route)
- Universal LCd temperature parameters in Factory settings
- WP to WP-Distance in route menu visible.
- New Userfield: CylArrival

This new userfield "Cyl Arrival" shows the predicted time difference of arrival at the startcylinder.

$\Delta t_{Pr edicttocy l} = t_{Start} - t_{actual} - \frac{Dist_{Startcyl}}{BGSpeed}$ During lift, the time is calculated with the best glide speed.

$\Delta t_{Pr edicttocy l} = t_{Start} - t_{actual} - \frac{Dist_{Startcyl}}{GNDSpeed}$ During glide to the startcylinder, the time will be calculated with the actual GND speed.

Before start time, this time will count up from minus (black on white). As soon as the pilot can leave his actual position, the value will cross zero, become positive and turn into white on black background. During glide to the startcylinder this number can become positive or negative, depending on the actual speed. But it should be around zero.

If a pilot decides to thermal longer and to fly with higher speed to the startcylinder, he can wait a certain time, then leave the thermal. During glide he must have a look onto the starttime and the time to startcylinder. Time to startcylinder should be around zero.

This field is only possible for the startcylinder, because it needs the starttime.

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V 3.28a from 7.8.2008

- New Userfield Alt GPS

V 3.28 from 14.7.2008

- Storing of Zoomfactor
- Bugfix Starttime near the UTC date line. Calculation only with local time.
- Start screen with language choose
- Display of userfield Race Start changed. Normal display before start. Inverse display after Start.
- Corrected userfield names RaceStart und GLZ SollWP (Only German)
- Order of the userfields during readout changed. ⇒ Backwards compatibility for Flychart.
- NMEA via Bluetooth. \$GPGGA Sentence alternating with \$GPRMC. Simplifications in GGA: DOP always 3.5, Ellipsoidal separation always 0.0
- New Userfield Distance to startcylinder
- New MC indicator and Page indicator with bigger font.
- New Default Settings for Userfields
- Bugfix with CTR -Radii: of 65 km or more, plausibility check of the received message from the PC
- Bugfix. Bluetooth module draws too much current if disabled
- Averaging of the battery level (10s)
- No Recording-Start, if manual recording and menu mode.
- "CONF"- command from Flychart ignored if recording is active.

V 3.27a from 21.5.2008

- New Userfield Time to Takeoff "StartTime". +/-60 min with inverted display

V 3.26 from 16.5.2008

- Bugfix: Problem with invalid B-records at the end of the IGC File solved. Improved handling of start/stop/ signature calculation. .
- Hungarian language added
- Bugfix GPS altitude below sea level.

V 3.25l from 9.5.2008

- Bugfix: Menu topic removed, which could cause a freezing: Main Setup Menu -> Settings -> Speed -> Pitot Offset

V 3.25i from 1.5.2008

- Improved Batterie Check
- Bug fix: Improved initialising sequence of the A/D converter. Solves the problem with wrong altitudes during instrument startup.
- No flight recognition with only the pitot speed. Flight recognition is only with possible with more than 10km/h GPS Speed for at least 60s or at least 30m Altitude difference within 60s.

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- Manual flight recording (Always On) delayed by 2 minutes. Therefore it is possible to make adjustments during 2 minutes after switch on.

V 3.25c from 15.2.2008

- Bugfix in Alt a. Goal. In special occasion it could come to an overrun in the calculation
- Starttime near the UTC date border. With an additional check it would be ensured that the start timer is within +/- 12h

V 3.25a from 28.1.2008

- Bugfix in Simulation. Ind. Speed instead of true Speed in Simulation
- Bugfix. 2 „empty“ keypresses in 5 Userfields

V 3.25 from 11.1.2008

- Message in case of wrong software download.
- Small changes in menu text.

V 3.24 from 9.1.2008

- Vario Lift threshold again in Menu Settings -> Acoustic
- The lift threshold in the Factory settings is now an offset to the Vario lift threshold.

V 3.23d from 7.1.2008

- 4 Userfields with bigger fonts
- Bigger Arrows in compass

V 3.23c from 30.11.2007

- 7 Userfields with big letters
- Default Settings acoustic filters to 0 (Old 5020 setting).
- Bugfix in SMS-Bluetooth

V 3.23 from Nov. 30.2007

- Filter setting in 5 steps. Detail settings are possible only in factory settings or with Flychart .
- Set waypoint of the actual position with long press WP and then Add Wayp. This is possible in every condition (During flying, in a Route in normal mode)
- Battery threshold für segment 8 reduced.
- Flight date derived from the first valid fix in the IGC file.
- GNSS Alti set to 0 in case of 2D fixes
- Baro Alti is based on 1013.25hPa
- Alt1/Mrk doesn't save a Waypoint in the waypoint list anymore. Instead it sets an E record in the IGC file
- Bug corrected in input of south coordinates
- Units as infor in speed in simulation.
- SMS-Bluetooth function activated
- Reset of the BT-Module after pairing

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- Bugfix in drawing circles of CTR's in the map mode.
- Polare table increased to 250 km/h
- Additional characters in Info removed.
- User pressure offset for the correction of the pressure sensor

V 3.21 vom 28.9.2007

- GPS-speed average instead of actual value for termination of the flight recording
- BugFix of ODAC register (internally)
- Info key in the map mode brings up a new page with the full information of the next 3 CTR's
- Right key in the map mode toggles not active waypoints in the map mode on or off
- Bug Fix missing segments in the vario dial
- Bug Fix Black background in userfield Alt. A WP during climb.

V 3.20 vom 24.9.2007

- Bugfix. The instrument could freeze if the flight memory was more than 2/3 full and a competition route was active.

V 3.19 vom 3.9.2007

- Userfields order changed: **Attention:** Is mandatory to use only Flychart 4.52.19 or higher after update to Version 3.19
- Wait for switch off prolonged to 7s
- No Beep during switch off
- Switch on time and Battery check time prolonged by another 2s. Serial Number in a bigger font to ease the reading for official observers
- Plus / Minus sign in map vario smaller
- Speed offset (to correct influence of the slower speed under the wing) like in the 5030
- Additional userfield A1 in ft,
- Daytypical climb in grey instead black
- Sound volume with double beep to drain internal capacitor
- Battery bar bank 2 in black

V 3.18 vom 23.8.07

- Validity check of waypoints during transmission from PC. Invalid signs will be converted to spaces
- The CTR's will not be deleted anymore with the command "Del all WP and routes"
- Calibration choices moved to factory settings
- Bugfix with black backgrounds of userfield titles
- Switch on delayed.

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V 3.17 Release Version Testunits

All important functions implemented. Release version for first test pilots

V 3.07 vom 5.6.07

1. Std 00 in B-Record
2. Opt., SW-Packages
3. CTR increased to 300
4. Bugfix weird textes in opt. SW-Package
5. TAS missing in IGC
6. SpeedDiff wrong
7. Timing switch off changed, but there ar still some stripes visible after switch off
13. Acoustic, 25% changed, Volume change depending on speed
- 21 Key Info