

History of BLHeliSuite32 Revisions

Changes in 32.6.0.8:

General:

- Added support for STM32L431 MCU (beta state).

External 4way-Interface (Cleanflight/Betaflight):

- Fixed connection issues (first ESCs sometimes missed).
- Added optional FC reboot on disconnect for F7 boards, to ensure reactivation of motor outputs.

Changes in 32.6.0.7b:

General:

- Added 32.6 hex file for:
 - Crazepony_35A_BLHeli_32
 - Dake_35A_BLHeli_32
 - Furling32_4in1_F0
 - Furling32_4in1
 - HSKRC_35A_BLHeli_32
 - Makerfire_35A_BLHeli_32
 - SMOOV_30A

Changes in 32.6.0.7a:

General:

- Added 32.6 hex file for:
 - AK32PIN_4IN1_6S_25A
 - BETAFPV-16A-BLHeli_32
 - Furling32_Metal
 - GEPRC_BL32_4IN1
 - TEKKO32_F3_4in1
 - TTTRC_BL32

Changes in 32.6.0.7:

General:

- Added 32.6 hex file for:
 - Atom32_35A
 - DALRC_ENGINE_PRO_ESC
 - HTIRC_Hummingbird_32
 - Lumenier_Razor32
 - Lumenier_Razor_Pro_F3
 - R_FlyFort
- Added 32.4 hex file for:
 - Atom32_35A
 - HTIRC_Hummingbird_32

Changes in 32.6.0.6:

General:

- Added 32.6 hex file for:
 - AK32PIN_4IN1_6S_35A
 - Dake_30A_BLHeli_32
 - Furling32_Mini
 - HGLRC_Forward_ESC
 - TEKKO32_F3_Metal
 - TEKKO32_F3_Mini
- Added 32.4 hex file for:
 - Dake_30A_BLHeli_32

External 4way-Interface (Arduino/Cleanflight/Betaflight):

History of BLHeliSuite32 Revisions

- Bugfix for readout of BLHeli_32 ESC, if BLHeli 8 bit is by chance mixed into arrangement.

Changes in 32.6.0.5:

General:

- Added 32.6 hex file for:
 - ALIENTEK_B LHeli32
 - iFlight_BL32_4IN1
 - iFlight_BL32_PRO
 - RDQ_32_Bit
 - T_Motor_F_4IN1_F3
- Added 32.4 hex file for:
 - ALIENTEK_B LHeli32
 - iFlight_BL32_PRO

Changes in 32.6.0.4:

General:

- Added 32.6 hex file for
 - Hobbywing_XRotor_B LHeli32
- Fixed bug: EConvert Error at start of the app, if Short date format is set to “dd-MMM-yy”.

Changes in 32.6.0.3:

General:

- Added approved 32.6 hex files.
- Adapted different parameter default values for:
 - sFrESC_80A
 - HAKRC_E45A
 - HAKRC_E50A
 - RF1

Changes in 32.6.0.2:

External 4way-Interface (Arduino/Cleanflight/Betaflight):

- ESC connection handling optimized; fixes particular problem (connection for ESC#1 fails after "check" scanning succeeded & “Write Setup” needs to be done in single mode) with GD350 based ESC.
- Optimized parameter comparison between different firmware revisions and LED arrangements.
- Fixed bug in multiple flashing of different ESC-Brands in multi-ESC arrangements.

Changes in 32.6.0.1:

General:

- Added auto checking for updates of BLHeliSuite32.
Feature is enabled by default for daily checking, but can be configured for other intervals or disabled (menu “Options”). Manually checking for updates is still possible in menu “?”.
- Fix of restoring the last selected screenshot path.
- Added BLHeli_32 rev. 32.4 hex files for:
 - Airbot_Wraith32_Metal_Rev1_ST
 - AK324IN1PIN25A
 - AK324IN1PIN35A
 - Bardwell32
 - Crazepony_30A_B LHeli_32
 - DALRC_Rocket_ESC
 - Emax_6S_STSPIN32F0_V21
 - Furling32
 - FVT_CloudPhoenix_50A

History of BLHeliSuite32 Revisions

- FVT_MachineDog_20A
- GetFPV
- HAKRC_45A
- Makerfire_30A_BLHeli_32

External 4way-Interface (Cleanflight/Betaflight):

- Fixed small bug in reading MSP_3D (no practical relevance).

Changes in 32.6.0.0:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.6 (No 32.6 hex files added yet).
- OpenSSL update to v1.0.2o.

Changes in 32.5.0.2:

General:

- Minor visual changes in “ESC Setup” page.
- Fix for LED color assignment at FrESC_80A.

Changes in 32.5.0.1:

General:

- Disabled rev. 32.5 for flashing due to a compatibility issue.
- Minor visual changes in “ESC Setup” page.
- Minor fix: “Brake On Stop” parameter handling. (Disabled showing of brake force percentage for ESC, which are not capable of nondamped mode).
- Added hint on transformation of “Motor Direction” between different revisions.

Changes in 32.5.0.0:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.5 (No 32.5 hex files added yet).
- Minor visual changes for rev. 32.5 in “ESC Setup” page.
- Added BLHeli_32 rev. 32.4 hex files for:
 - Spedix_GS40A_4IN1_V1_1

Changes in 32.4.0.7:

General:

- Fix for interface “L” failure on “Flash BLHeli”, when logging was enabled.
- Removed obsolete control in Flash Assistant (checkbox “Show Favorites only”).
- Fix for flash issues with bootloader rev. “f” and:
 - KS_BLHeli_32_30A
 - Spedix_GS30A_V1_1

Changes in 32.4.0.6:

General:

- Improved automatic reflash handling for ESCs where prior the activation failed.
- Minor fix in the MusicEditor (play back function plays wrong notes, if music is disabled).
- Fix for flash issue with:
 - DALRC_ENGINE_40A
- Added BLHeli_32 rev. 32.4 hex files for:
 - FrESC_35A_32
 - HGLRC_T-REX_35A_ST
 - KS_40A_4IN1_4S
 - KS_BLHeli_32_35A_V1
 - KS_BLHeli_32_50A_V1

History of BLHeliSuite32 Revisions

- Tmotor_32Bit

Changes in 32.4.0.5:

General:

- Minor fixes for FVT USB link/HID tool detection.
- Fix for EagleTree MicroVector interface connection failure.
- Added capability to handle BLHeli_32 rev. 32.41 Beta.
 - Programmable “Sine Modulation Mode”.
 - Programmable autonomous Telemetry output every 32ms (“Auto Telemetry”).
 - Expanded Programmable “Motor Direction” to "Bidirectional Soft" and "Bidirectional Soft Rev.".
- Added BLHeli_32 rev. 32.4 hex files for:
 - FrESC_80A
 - HGLRC_DinoShot_60A_ST
 - Siskin_Lite

Changes in 32.4.0.4:

General:

- Fix for flash issue with
 - Hobbywing_XRotor_BLHeli32
 - iFlight_Force32

External 4way-Interface (Cleanflight/Betaflight):

- Fixed “Initialization of flight controller denied” issue, when FC is setup for DShot or ProShot and Minimum Command is set lower the 1000 or 3D Mode is enabled.

Changes in 32.4.0.3:

General:

- Added approved 32.4 hex files.
- Added BLHeli_32 rev. 32.3 hex files for:
 - Exuav_FishDrone
 - HAKRC_35A
 - KS_BLHeli_32_40A
 - YGRC_32
- Added updated Operation manual for BLHeli_32 ARM Rev32.x

Changes in 32.4.0.2:

General:

- Fixed “ESC Tools... Verify flash memory” issue, where equal parameter areas are falsely signaled as unequal.

Changes in 32.4.0.1:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.4. (No 32.4 hex files added yet).
- Added 32.3 hex files for:
 - Aikon_AK32_4IN1_35A_6S_V1_0
 - Airbot_Wraith32_Metal_ST
 - Flycolor_X_Cross_BL_32_35A
 - MARS32_40A
 - RobotDOG_ST
 - Spedix_GS25A_4IN1_4S_V1_1

Changes in 32.3.0.5 Beta:

General:

- Music Editor improved: Simulation, store and load Music script now handles up to 8 channel polyphonic music (“Sync Startup Music to Multiple ESC” needs to be disabled).
- Improved Beta version update checking.

History of BLHeliSuite32 Revisions

External 4way-Interface (Arduino/Cleanflight/Betaflight)

- Added additional 2 sec wait time for CF/BF interface to complete FC reboot after failed connection.
- Improved re-flash assistance for ESCs marked as “u” (unknown) or “i” (invalid).

Changes in 32.3.0.4d Beta:

General:

- Music Editor improved: Simulation now uses saw-tooth wave form and playback one octave lower (optional).

Changes in 32.3.0.4c Beta:

General:

- Fixed 32.3.0.3 Beta issue: “Failed to read serial number” error showing, when try to remedy a previous flash write failure.

Changes in 32.3.0.4b Beta:

General:

- Fixed 32.3.0.3 Beta issue: Click on “Flash BLHeli” fails if not “Read Setup” was done before.

Changes in 32.3.0.4a Beta:

General:

- Fixed issues in Music Script file manager load script file procedure. “Gen. Length” and “Gen. Interval” were not loaded correct, if prior Music was turned off.

Changes in 32.3.0.4 Beta:

General:

- Added support for user programmable ESC startup Music.
- Adapted column width for “ESC Overview” with regard to shown number of ESCs.
- Fixed issues in reading setup from ini/ixi files.

Changes in 32.3.0.3 Beta:

General:

- Minor improvement of screenshot dialog window visibility.
- Added readout for input good/bad frame statistics.
- Added readout for input protocol detection.
- Added partial capability to handle coming BLHeli_32 rev. 32.4.
 - Programmable current sensor calibration.
 - Nondamped mode.
 - Showing input signal type and good / bad frames statistics.
 - No support for programmable startup music yet.

External Interface

- Added hint for USB/COM (“L”) and Arduino 4way-interface(“K”) on hitting “Disconnect” to restart a recently flashed ESC by disconnecting and reconnecting the power connection before use.

Changes in 32.3.0.2:

General:

- Added 32.3 hex files for:
 - Hobbywing_Xrotor_BLHeli32
 - FVT_CloudPhoenix_35A
 - HGLRC_DinoShot_40A_ST
 - HGLRC_T-REX_60A_ST

History of BLHeliSuite32 Revisions

- MARS32_35A
- Slightly improved recognition of corrupted layout revisions.
- Checking server connection before opening flash dialog.

Changes in 32.3.0.1:

General:

- Added approved BLHeli_32 rev. 32.3 hex files.

Changes in 32.3.0.0:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.3. (No 32.3 hex files added yet).
- Added support for GD32F350x6 MCU

External 4way-Interface (Arduino/Cleanflight/Betaflight)

- Added hint for CF/BF interface on hitting “Disconnect” to restart a recently flashed ESC by disconnecting and reconnecting the power connection before use.
- Added GD32F350x6 to device id match.
- Increased 4way-if version number to rev20.0.0.2 to indicate changes. Please ensure to use Arduino/CF/BF interface versions which contains 4way-if code of rev20.0.0.2 or higher. (BF 3.20 and CF 2.10 contain 4way-if version 20.0.0.1)

Changes in 32.2.0.2:

General:

- Remove BLHeli rev. 32.2 hex files and disabled rev. 32.2 for flashing due to a compatibility issue if upgrading from rev 32.1.

Changes in 32.2.0.1:

General:

- Renamed parameter “Beep Strength” to “Startup Beep Volume” and “Beacon Strength” to “Beacon/Signal Volume” and added functionality clarification in the hint text.
- Added the first approved BLHeli rev. 32.2 hex files.

Changes in 32.2.0.0:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.2. (No 32.2 hex files added yet).
- Added additional BLHeli_32 rev 32.1 hex files.
- Fixed: not recognizing com port, if registry entry contains non ANSI characters.
- Added save/read Setup parameters to/from (*.ini or *.ixi) file.
- Fixed: unable to select an ESC with left mouse button into Multiple ESC arrangement.
- Fixed: falsely showing current sensor presence for Spedix_GS30A_V1_1.
- Added indication of ESC activation state.
- Fixed: ESC name not stored with write Setup.
- Various minor fixed and improvements.

External 4way-Interface (Arduino/Cleanflight/Betaflight)

- Fixed: ESC name did not show up in ESC Overview.
- Fixed: lost indication for the last ESC in a Multiple ESC arrangement, after writing setup to a prior ESC failed.

Changes in 32.1.0.1:

General:

- Added BLHeli_32 rev 32.1 hex files.

History of BLHeliSuite32 Revisions

- Added support for STM32F031 MCU.
- Enhanced recognition for unknown (future) MCU types and revisions.
- Increased timeout for server connection to 30s.
- Various other improvements of GUI.

External 4way-Interface (Arduino/Cleanflight/Betaflight)

- Increased timeouts for flashing and writing setup to GigaDevice MCU's.
- Added STM32F031 to device id match.
- Increased 4way-if version number to rev20.0.0.1 to indicate changes. Please ensure to use Arduino interfaces/CF/BF versions which contains 4way-if code of rev20.0.0.1 or higher.

Changes in 32.1.0.0:

General:

- Added capability to use BLHeli_32 rev 32.1 hex files.
- Fixed bug in saving screenshots of message dialogues.
- A lot tidying up and optimizing speed of application.

External 4way-Interface (Cleanflight/Betaflight)

- “Motors” tab: Disabled “Calibrate ESCs” if DSHOT is enabled.

Changes in 32.0.0.4:

General:

- Added identification for BLHeli32 rev 31.x test samples
- Added fix for ESC with corrupted settings area, showing up as “u” (Unknown).
- Added support for coming bootloader rev. f.
- MultipleESC sync function now allows optional exclusion of “LED setting”. Check or uncheck sync in menu “Options... Sync....”.

Changes in 32.0.0.1:

External USB/COM (FVT-Linker) and 4way-Interfaces(Arduino/Cleanflight/Betaflight)

- Fixed timing bug, which led to flash failures.

Initial release 32.0.0.0