

History of BLHeliSuite32xl Revisions

Changes in 1.0.4.4:

General:

- Added current BLHeli_32 manual.

Changes in 1.0.4.3:

General:

- Added the ability to edit and flash coming BLHeli_32 rev. 32.10.
- Minor fixes and improvements in the UI.

External 4way-Interface (Arduino):

- Fix for 8Mhz interfaces not connecting the ESC bootloader.
Updated to interface version 2.0.0.0.7.

Changes in 1.0.4.1:

General:

- Preparatory works for the future use of themes.

Interface “L”:

- Fixed FVT-Linker read/write failure, if log is enabled.

Changes in 1.0.4.0:

General:

- Fixed showing all server error messages as “Unknown Error”.

Changes in 1.0.3.9:

General:

- Fix for extraordinary slowness of progress(dialog) on some systems.
- Fix for the menu/combobox items dropping down on the wrong monitor, if running the application on a secondary monitor.
- Minor fixes and improvements.

External 4way-Interfaces:

- Fix for not working “Reboot F7 FC on disconnect”
- Improved handling of FCs with only one motor output (Fixed-Wing)

Changes in 1.0.3.8:

General:

- Fixed remote connection failure, due to certificate change.

Changes in 1.0.3.7:

General:

- Reduced, clearer menu display for beginners.
- Various fixes and improvements.

Changes in 1.0.3.6:

General:

- Fixed hex file selection.
- Fixed issues in dialog mechanics.

Changes in 1.0.3.5:

General:

- Added the ability to edit and flash shortly coming BLHeli_32 rev. 32.9.
- Improved stability of flash read and write operations, including resuming flashing after a temporary power failure on the ESC.

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- Improved handling of corrupted setup section.
- Added Unicode character support for ESC name field.
- Reworked Heartbeat handling.
- Various improvements.
- Firmware files are now loaded from remote.
- Parameter default values are now updated from remote.

Changes in 1.0.3.3 - 4:

General:

- internal optimizations.

Changes in 1.0.3.2:

General:

- Added hex file for:
 - IFLIGHT_BLITZ_G071_01
 - MAMBA_F50_BL32_M16
 - Neutron_X-CLASS_12S
 - RUSH_BLADE_SPORT_V21
 - Skystars_BL32_KO60A_6s
 - SpeedyBee_4in1_V21
 - TEKKO32_F4_4in1_G
 - TEKKO32_F4_4in1_I
 - XILO_4in1_V2
- Various fixes and improvements.

External 4way-Interface:

- Added simple RPM noise test to “Motors” tab in “Expert Mode”.
- Added simple throttle linearity test to “Motors” tab in “Expert Mode”.
- Added option “automatic” for wait time after connect interface (automatic 0, minimum 260ms, default 5000ms).

Changes in 1.0.3.1:

General:

- Added ability to Eep Layout rev. 48.

Changes in 1.0.3.0:

General:

- Added support for AT32F413 MCU.
- Added support for GD32E230 MCU.
- Bug fix for hanging start up music and making ESC unresponsive when playing note “C(♯)” (related to AT32F413/415 and firmware <= 32.8). (Replacing notes "C", "C#", "Db" with note "D").

Changes in 1.0.2.9:

General:

- Added hex file for:
 - Firefly
- Added improvement for AT32F421 MCU flashing procedure.

External 4way-Interface:

- Added option for setting wait time after connect interface to facilitate detecting of the ESCs (minimum 260ms, default 5000ms).

Changes in 1.0.2.8:

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General:

- Added hex file for:
 - FOXEER_Reaper_4IN1_65A_96
 - FOXEER_Reaper_Mini_4IN1_45A_96
 - FOXEER_Reaper_Mini_4IN1_60A_96
 - TEKKO32_F4_4in1
 - TMOTOR_L4_01_96k
 - TMOTOR_T4_01
- Replaced hex files for:
 - SpeedyBee_4in1_V2
 - RUSH_BLADE_SPORT_V2(Please reflash 32.8 once with BLHeliSuite32xl/m 1.0.2.8 or later).

Changes in 1.0.2.7:

General:

- Fixed partial wrong language in dialog headings and buttons.

Changes in 1.0.2.6:

General:

- Added hex file for:
 - IFLIGHT_G071_8S
 - LeoGlider
 - LUXAIO
 - SpeedyBee_4in1_V2
 - TEKKO32_F4_45A_4in1
- Improved Verify ESC handling (removed “ESC Tools... Verify flash memory” menu item, added “Verify BLHeli” button, added suggestion to verify ESC before reflashing with the same revision).
- Added ability to Eep Layout rev. 47.
- Fixed not starting under certain distributions with “error while loading shared libraries: libcurl-gnutls.so.4: cannot open shared object file: No such file or directory“.

Changes in 1.0.2.5:

General:

- Added hex file for:
 - BETAFPV_20A_AT32
 - FOXEER_Reaper_4IN1_65A
 - IFLIGHT_G071_PRO
 - Master_F45_96K
 - Master_F55_96K
 - Master_F65_96K
- Various minor Improvements.

External 4way-Interface (BF):

- Added warning, if motor output protocol is set to disabled.

Changes in 1.0.2.4:

General:

- Added hex file for:
 - BETAFPV_20A_AT
- Improved bootloader connection handshaking for interface “L”. Fixes: sometimes connection fails if ESC is power cycled.

External 4way-Interface:

- Added warning for not recent 4way-if versions, if no ESC found.

Changes in 1.0.2.3:

General:

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- Fixed manual check for update: dialog did not show up, if update available.

External 4way-Interfaces:

- Improved wait time for ESC connection after reset.
- Added parameter “Options... Connect ESC Retries ...” to improve reliable bootloader connections.

Changes in 1.0.2.2:

General:

- Added hex file for:
 - FOXEER_Reaper_Mini_4IN1_60A
 - Hobbywing_XRotor_BLHeli32
 - iFlight_BL32_Hybrid
 - LBEES_43C
 - MAMBA_F60_BL32
 - Pro-Tronic_BF32_30A
 - RUSH_BLADE_SPORT_V2
 - T_Motor_AM66A
- Added support for AT32F421 MCU.
- Added “Cancel” option to verify process.
- Various fixes and improvements.

Changes in 1.0.2.1:

General:

- Added approved 32.8 hex files.
- Added hex file for:
 - FL1_Megabolt_E
 - MAMBA_F50_BL32

External 4way-Interface:

- Fix for: establishing connection with Ardupilot hangs, if Ardupilot parameters are not configured appropriate.
- Increased wait time to 2.5 sec after connect interface to facilitate detecting of the ESCs (optional off).

Changes in 1.0.2.0:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.8 (No 32.8 hex files added yet).
- Removed support for obsolete EagleTree MicroVector
- Minor improvements.

Changes in 1.0.1.1:

General:

- Added 32.7 hex file for:
 - IFLIGHT_G071_4IN1
 - MAMBA_RACE_F60_BL32
 - MAMBA_RACE_F75_BL32
 - SKYSTARS_BL32_NX45A_6s
 - SKYSTARS_BL32_NX60A_6s
 - SpeedyBee_4in1
 - ST_G0_02_96k
 - ST_L4_02_96k
- Added checking for valid bootloader version number.

External 4way-Interface:

- For better information, now showing up 4way-if version number in the Application title bar.

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- Improved connection establishment to FCs with Ardupilot.

Changes in 1.0.1.0:

General:

- Added 32.7 hex file for:
 - BETAFPV_20A_BLHeli_32
 - FOXEER_Reaper_Mini_4IN1_45A
- Added more upcoming MCU devices.

External 4way-Interface (Arduino):

- Added device id range in order support further upcoming MCU devices.
- Increased 4way-if version number to rev20.0.0.5 to indicate changes.
Please ensure to use Arduino/CF/BF interface versions which contains 4way-if code of rev20.0.0.5 or higher in order to connect to upcoming MCU devices. (BF 4.2.5 and CF 4.2.2 contain 4way-if version 20.0.0.4)

Changes in 1.0.0.9:

General:

- fixed bug: “write failed” on Write Setup with different value than default for PWM Frequency.

Changes in 1.0.0.8:

General:

- Added 32.7 hex file for:
 - CLRACING_STSPINA_V2
 - Furling32_4in1_C
 - TMOTOR_L4_01
- Added workaround in “Motor” tab for Ardupilot (FC_VERSION < 3.3.1) missing response on MSP_SET_MOTOR command.
- Added warning message in “Motor” tab, if motor outputs are disabled.
- Added the ability to edit and flash BLHeli_32 rev. 32.73 beta.
- Further minor fixes and improvements.

Changes in 1.0.0.7:

General:

- fixed bug: Flashing or writing setup results in “Error writing flash” when using interface “L”.

Changes in 1.0.0.6:

General:

- Added 32.7 hex file for:
 - IFLIGHT_8S_BLHeli32
 - LAL5_BLHeli_32
 - LANRC_BLHeli_32
 - RUSH_BLADE-SPORT
- fixed: improvement of re-connection using FVT USB link worked only if logging was enabled.
- Improved: Detection and handling of future, not yet supported, MCU types.
- Further minor fixes and improvements.

Changes in 1.0.0.5:

General:

- Added 32.7 hex file for:
 - Aocoda_32Bit_60A
 - Aikon_AK32_4IN1_35A_6S_V3_0

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- AIKON_AK32PRO_50A_4IN1_MINI_6S
- AK32PIN_4IN1_6S_25A_V2
- BETAFPV_12A_BLHeli_32
- DARWIN_F0_40
- Eachine_ESC
- Eagle32
- HellCat32-1_0
- HGLRC_Zeus_ESC
- MAMBA_F40_MINI_PRO
- Pro-Tronic_BF32_18A
- Pro-Tronic_BF32_23A
- RUSH_BLADE_SPEED
- RUSH_BLADE_SUPER
- SKYSTARS_KRAMAM32_40A_6s
- SKYSTARS_KRAMAM32_45A_6s
- SKYSTARS_KRAMAM32_55A_6s
- SKYSTARS_KRAMAM32_60A_6s
- ST_L4_02
- Tekko32_F3_C
- XILO_ESC_B
- improved re-connection using FVT USB link after unplugging.
- Minor internal improvements.

“Make interfaces” tab:

- Added differentiation for Arduino Nano with old and new bootloader baud rate.

Changes in 1.0.0.4:

General:

- Added 32.7 hex file for:
 - Aikon_AK32_4IN1_55A_6S_V3_0
 - Flycolor_X-Cross_HV
 - HAKRC_603
 - RUSH_BLADE_SPORT
 - T_Motor_F45A_4IN1_Mini
 - TEKKO32_F3_B
- Minor fixes and improvements.

Changes in 1.0.0.3:

General:

- Added 32.7 hex file for:
 - Furling32_4in1_B
 - Razor4in1_B
 - TEKKO32_F3_4in1_B
 - TEKKO32_F3_Metal_B

External 4way-Interface (iNavFlight):

- Added fix for unable to connect due to MSP_MOTOR_CONFIG not available in inav.

Changes in 1.0.0.2:

General:

- Added 32.7 hex file for:
 - AK32PIN_4IN1_6S_35A_V2
 - BETAFPV_35A_BLHeli_32
 - FL1_Afterburner
 - HIFIONRC_BLHeli32
 - MARS32_25A
 - T_Motor_F30A_4IN1
 - T_Motor_F35A_BLHeli32_V1_1_S

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- Fix for Access violation on enumeration of certain HID devices when selecting interface “K” or “L”.
- Minor fixes and improvements.
- Added detection for BLHeli/_S 8 bit ESCs.

External 4way-Interface (Betaflight/et al.):

- Adapted MSP_API level 1.42
- Reworked functions in “Motors” tab.
- Added telemetry data support in “Motors” tab.

Changes in 1.0.0.1:

General:

- Added 32.7 hex file for:
 - CRATER_ESC
 - FL1_Megabolt_C
 - Helsel_EKUAT
- Various minor fixes in GUI.

External 4way-Interface (Betaflight/et al.):

- Added workaround fix for flooding MSP port with MSP_DISPLAYPORT under specific circumstances.

Changes in 1.0.0.0:

General:

- Fixes for handling PWM frequency defaults > 48khz.

Changes in beta 0.9.2.0:

General:

- Added 32.7 hex file for:
 - RCTimer_Ares_60A
- Fixed: Com port device failures while write/verify flash. Mostly discovered with CH340 USB/UART (Arduino Nano) devices on specific systems (OS and/or USB hardware dependent).

Changes in beta 0.9.1.9:

General:

- Added 32.7 hex file for:
 - FL1_Megabolt
 - MAMBA_F50PRO
 - ZeeZ60A
- Added ability to reload new hex files online.
- Added ESC verification feature to “ESC flash” tab.

Changes in beta 0.9.1.8:

General:

- Added 32.7 hex file for:
 - Emax_Formula_65A
 - FLYWOO_GOKU32_PRO
 - Forward_F3_ESC
 - Furling32_A
 - WINGTRA
- Fix: Added SBUS to valid input protocols.
- Fixed exception handling while scanning serial ports (caused crashes on certain systems).

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

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- Added repeating of command after ACK_I_UNKNOWN_ERROR response to improve workaround for USB connection issues.

Changes in beta 0.9.1.7:

General:

- Added 32.7 hex file for:
 - MAMBA_F50_PRO
 - MAMBA_F60_PRO
- Added the ability to edit and flash BLHeli_32 rev. 32.71 beta.
- Improved reaction for ESC disconnection/reconnection from power supply.

Changes in beta 0.9.1.6:

External 4way-Interface (Arduino):

- Fix “Arduino Mega unable to connect” by limiting DTR and RTS active for FC interfaces only.

Changes in beta 0.9.1.5:

General:

- Added 32.7 hex file for:
 - Lumenier_Razor_4in1
 - Racerstar_TaiChi_ESC
- Improved flash handling for ESCs.
- Setting DTR and RTS active whenever opening a com port.

Changes in beta 0.9.1.4:

General:

- Added 32.7 hex file for:
 - FL1
 - FLYWOO_GOKU406S_PRO
 - Infinity_40A

External 4way-Interface (Arduino):

- Bugfix for overly tight timeout, especially with regard to the use of the Arduino UNO.

Changes in beta 0.9.1.3:

General:

- due to libcurl3/libcurl4 conflict, a split into legacy (marked as legacy) and regular version was needed.
 - regular uses libcurl4, which is available on Ubuntu 19 etc.
 - if regular does not start, use legacy version (Ubuntu 16 etc).
- Fix for Debian 10 size issue.

Changes in beta 0.9.1.2:

General:

- Added support for Ubuntu 19.04.

Changes in beta 0.9.1.1:

General:

- improved detection of com port device removal from USB.

Changes in beta 0.9.1.0:

General:

- Added new “ESC Flash” tab.

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- Added approved 32.7 hex files.
- Minor fixes and improvements.

Changes in beta 0.9.0.9:

General:

- Added the ability to edit and flash BLHeli_32 rev. 32.7 (No 32.7 hex files added yet).
- Added 32.6 hex file for:
 - CLRACING_STSPINA
 - TRANSTECN_50A
- Fixed not showing progress value while ESC calibration.
- Minor fixes and improvements.

Changes in beta 0.9.0.8a:

General:

- Added 32.6 hex file for:
 - FL1_F3
 - Forward_L4_ESC
 - HGLRC_T-REX_32bit_ESC
 - LBEEES_43
 - RUSH_MATRIX_30A
 - SkyStars-40A-Slim-F3
 - Spedix_Mini_GS_40F_4IN1
 - TEKKO32_F3

Changes in beta 0.9.0.8:

General:

- Added 32.6 hex file for:
 - Aikon_RD32_45A_4IN1_6S_V1_0
 - BETAFPV-16A-32bit-V2_0
 - MARS32_100A
 - Spedix_LS40A_Slim_V1_1
- Minor fixes and improvements.

Changes in beta 0.9.0.7:

External 4way-Interface (Ardupilot only):

- Added workaround fix for usage with interface “K” and “M”.
 - Removed warning about outdated interface version for interface “K”.
 - Removed heartbeat connection check for interface “K”.
 - Removed cmd_DeviceInitFlash after “general error” answer on cmd_DeviceReset for ESC presence checking for interface “K”, to speed up skipping of unused channels.
 - Excluded unsupported MSP_BOXIDS command usage for interface “M”.
 - Added 2 sec timeout for cmd_DeviceReset and cmd_DeviceInitFlash to compensate excessive first ESC command delay after Connect.

Changes in beta 0.9.0.6:

General:

- Added capability to handle BLHeli_32 rev. 32.64 Beta.
 - Programmable “Stall Protection”.
- Visual improvements in “ESC Setup” page.
- Minor fixes and improvements.

Changes in beta 0.9.0.5:

General:

- Added 32.6 hex file for:
 - FLYWOO_INI32_PRO

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- MAMBA_25A
- MAMBA_306
- MAMBA_506
- T_Motor_F55A_4IN1_PRO_V2_F3
- Improved parameter layout revision check.
- Improved handling of “invalid” or “flash failed” marked ESC in “Read Setup” and “Check” procedures.
- Improved automatic serial port scanning.
- Improved visual parameter layout.
- Various minor fixes and improvements.

Changes in beta 0.9.0.4:

General:

- Added 32.6 hex file for:
 - BETA FPV-16A-32bit-V1_1
 - TEKKO32_4in1
 - VIVA FPV_45A_BL32
- Improved handling of ESC write/verify errors by repeating block operations.
- Improved handling of ESC “Read Setup” and “Check” procedures.
- Changed default screenshot image type to png.
- Improved Logging functionality, including save to and load from file.

Changes in beta 0.9.0.3:

General:

- Added 32.6 hex file for:
 - Aikon_AK32_4IN1_55A_6S_V1_0
 - iFlight-35A-BLHeli_32
 - Neuron_40
 - PYRO-32F3
 - ReadyToSky_32
 - Spedix_GS45A_4IN1_V1_1
 - T_Motor_F45A_4IN1_V2
 - T_Motor_F55A_4IN1_PRO_V2
 - XILO_ESC
- Added handling for falsely added BOM UTF-8 in external hex files.
- Added basic workaround for alignment handling under Elementary OS.
- Added basic workaround to improved performance of log function.

External 4way-Interface (Cleanflight/Betaflight/et al.):

- Added workaround for Betaflight VCP multiple of 64 byte read failure bug with F7 FC boards.
- Added basic compatibility verification of FC variants with Motor tab functions.
- Added Error handling for msp error sign (“|”) currently used by dRonin.

Changes in beta 0.9.0.2:

General:

- Fixed exception on open Music editor dialog for single selected ESC > #1.
- Fixed load error for sym links to openssl1.1.

Changes in beta 0.9.0.1:

General:

- Fixed exception on close Music editor dialog.

Initial beta release 0.9.0.0:

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