This file contains release notes of the Halcyon Symbios Dive computers (HUD and Handset)

FW V2.30.06

* Bluetooth interface extended by CCR fixed setpoint high
* Bluetooth interface extended by CCR fixed setpoint low
* Bluetooth interface extended by language files update bits
* GPS screen improvements
* Deco screen enabled by default

FW V2.30.05

* Bugfix in U16 fonts

FW V2.30.04

* Delete pairing data when entering CCR mode got removed
* Bugfix in showing Symbios CCR SOC
* Greenflash / Symbios CCR SOC message timeout changed from 30 s to 45 s
* When Symbios CCR is paired, sentinel pO2 data added to .csv divelog

FW V2.30.03

* Dive simulation speed factor added to CNS/OTU algorithm
* Dive simulation gets stopped when app gets terminated

FW V2.30.02

* Bugfix in Bluetooth dive simulation

FW V2.30.01

* Depth graph gets updated when entering depth graph screen
* Depth graph gests clear after dive simulation
* CCR pairing data gets removed when changing dive mode
* CCR diluent gets grayed out in case of Symbios CCR high pressure sensor error
* CCR O2 gets grayed out in case of Symbios CCR high pressure sensor error

FW V2.30.00

* Depth chart added
* Deco ceiling depth added to custom field

FW V2.29.08

* BLE boundary check added in dive simulation
* Military mode added

FW V2.29.07

* BLE interface adapted
* Gradient factor chart added
* Dive timeout reset removed when a button is pressed on the surface and still in dive mode
* Bugfix in custom field battery SOC

FW V2.29.06

* HUD CNS visualization fix in custom field
* Diluent visualization fix in custom filed

FW V2.29.04/05

* TEA firmware update is not case sensitive anymore
* Menu style changed to 'modern'

FW V2.29.03

* Bugfix of black popup box overwriting gas switch popup box

FW V2.29.02

* Exception added in case that encypted firmware file size is empty

FW V2.29.01

* CCRFSP setpoint color coding bugfix
* Splashscreen START.DAT renamed to START.BMP
* dive .csv logging optimization
* bugfix when configuring display orientation via bluetooth

FW V2.29.00

* BLE file receive timeout adjusted
* BLE file transfer timeout adjusted
* Naming in the menu changed
* New firmware update file naming enabled

IMPORTANT: The new naming H0xxxxxx.DAT requires at least FW V2.27.02 otherwise you have to rename it to O2S001FW.eff for the HUD, resp. O2S007FW.eff for the handset before uploading it to the dive computers mass storage drive.

FW V2.28.04

* BLE file receive timeout adapted

FW V2.28.03

* BLE debugging output added

FW V2.28.02

* imperial units added to military compass navigation
* bugfix when canceling a screen flip

FW V2.28.01

* CCR battery SOC wrong timeout bugfix
* HUD jump to wrong screen during pO2 calibration bugfix
* Gas edit menu, wrong ‘delete’ caption removed

FW V2.28.00

* New external compass integrated
* Toggling between internal and external compass depending on the divers tilt

FW V2.27.02

* BLP\_bluetooth\_specification\_protocol.h cleaned
* O2 tank pressure added to BT\_remote\_control\_data
* bugfix is changing the style via bluetooth
* bugfix in enabling/disabling the wireless/deco screen via Bluetooth
* bugfix decrementing safety stop during simulation with speed factor higher than 1
* max. allowed dive simulation speed factor changed to 30
* pO2 < 0.4 blinking changed to blue/red

FW V2.27.01

* New Halcyon firmware file naming integrated
* CCR pO2 high/low added on surface if pO2 > 1.6 or < 0.18

FW V2.27.00

* Symbios CCR pO2 values cleared in USB mode
* Symbios CCR pO2 calibration error message added
* bugfix in Bluetooth dive simulation
* bugfixes in Bluetooth interface
* decompression calculation gets triggered in 5 s intervals (instead of 1 s intervals)
* jump back to main screen added in deco, Symbios CCR or auxiliary screen when a warning is triggered
* custom field diluent pO2 added
* custom field ascent speed added
* custom field setpoint added
* color coding for custom field loop pO2 added
* all paired OC gases are shown in custom field

FW V2.26.15

* housing pressure added to .csv dive log
* all paired gases but not active OC gases added to custom field
* bugfix in bluetooth interface when sending/receiving custom field settings

FW V2.26.14

* pO2 high/low warning popup added
* bugfix pO2 vibrator warning
* bugfix greenflash battery SOC timeout
* diluent PO2 added as label (handset only)
* timeout for deco screen removed. Does not switch back to large or detailed dive screen anymore
* pO2 set to default in large screen and deco screen in CCR mode
* lower button shortcut added in CCR FSP mode to toggle between BO, CC SP1 and CC SP2
* loop pressure gets shown when Symbios CCR is assembled, in CC state and O2 tank is closed

WARNING: Settings will be reset!

FW V2.26.13

* bluetooth command to get and set pairing IDs added
* custom field content can be enabled/disabled (SYSTEM => CF CONTENT) for each dive mode

FW V2.26.12

* CSV dive logs extended
* O2 transmitter pairing in CCR FSP mode bugfix

FW 2.26.11

* short vibration added if gas/diluent or CC/BO is changed
* CC/BO switch via long button press is possible in CCR FSP mode and for 3rd party CCR sensor board devices if no gas switch is pending and the stopwatch is not chosen as a shortcut
* Chinese font alignment bugfix

WARNING: Settings will be reset!

FW 2.26.10

* BLE settings read/write extended

FW 2.26.09

* temperature added in the production file
* timeout deco gas in deco screen added
* in OC numbers get red if pO2 > 1.6 - warning popup if pO2 > 1.7
* last digit removed in ascent speed custom field
* no flight time flipped with surface interval
* RTC offset set to 2024-01-01 00:00
* min. FO2 reduced from 20 % to 17 % so that TX18/45 does not trigger a gas switch on surface because toxic gas algorithm alarms
* active setpoint added to big screen next to pO2 label
* custom field added to deco screen
* jump to CCR screen added in case of calibration or USB mode
* CCR battery SOC false charging indicator bugfix
* Logboog details extended (details get scrolled when short pressing a button)

FW 2.26.08

* BLE dive simulation
* Bugfix CCRFSP dive logging

FW 2.26.07

* bugfix on CCR large screen showing pO2 as primary custom item
* pO2 high warning changed from 1.6 to 1.7
* pO2 difference popup message changed so that it is only shown when the difference is present for more than 20 s

FW 2.26.06

* ascent graph in CCR large screen got thicker
* best gas suggesting now based on MOD without tolerance
* gas information if OC gases are enabled/disabled are added to .csv log

FW 2.26.05

* - CEIL changed to STOP in detailed dive screen
* - CCR SOC added to auxiliary screen
* - dive settings struct reorganized
* - HUD lower left corner showing title for GF Surface fixed
* -Handset CCR big screen chopping the bottom
* row fixed

WARNING: Settings will be reset!

FW 2.26.04

* showing FO2 in CCR mode
* pO2 high is shown when depth > MOD instead of best gas
* ascent speed algorithm adapted
* MOD rounding removed
* ascent speed graph added in CCR mode
* DPV POD can be paired and data is shown in the custom field
* ceiling violation popup message added
* greenflash vbat <15 % popup message added

FW 2.26.03

* Bluetooth status output on detailed main screen
* bugfix in showing pO2 custom field (label is not blank anymore)
* Symbios handset label color changed to brighter blue

FW 2.26.02

* Watchdog reset after stop watch reset issue
* bugfix in showing custom field
* Reset average depth moved to root menu

FW 2.26.01

* HUD buttons flipped so that they behave like handset buttons
* Tn logging in binary log and csv log added
* Bin/csv logging improved to be more reliable
* CCR large screen also available in bailout mode
* Sleep after MSS bugfix (was randomly waking up)

FW 2.26.00

* Font load from RAM
* Large symbol screen in CC mode shows additional data in the custom field
* No default custom data label uses white color instead of blue to be easier to read

FW 2.25.05

* Depth warning after gas switch fixed
* Popup message box half-window wipe effect fixed
* Blank HUD SOC label for greenflash O2 sensor and rebreather fixed

FW 2.25.04

* Large CCR screen only shows pO2 in custom field and diluent at the left bar graph
* Ascent speed is shown in ft/min if imperial units are used

FW 2.25.03

* Bugfix in custom field incrementation
* Bugfix in CCR gas density calculation

FW 2.25.02

* Big screen for CCR mode added
* Bluetooth file receive error messages extended

FW 2.25.01

* BLE file receive bugfix
* Wireless CC battery status timeout changed to 3 min

FW 2.25.00

* Gas density added to custom field (just underwater)
* CCR SOC and greenflash SOC added to custom field (if Symbios CCR is paired)
* Deco stop violation popup if ceiling pressure > ambient pressure
* Deco stop depth blinks red if depth < deco stop depth
* CCR setpoints menu item removed in CCR mode (can only be changed in CCR fixed SP mode)
* Bugfix in Bluetooth file receive

FW 2.24.09

* BLE timeout reset bugfix

FW 2.24.08

* BLE file receive wrong block ID bugfix
* Ascent speed algorithm improved

FW 2.24.07

* HUD compass scale odd resolution fix
* HUD setpoint overwritten when stopwatch started is fixed
* .csv logging header unified
* New sidemount mode
  + Left gas is shown on the left side (inc. bar graph)
  + Right gas is always shown on the right side (inc. bar graph)
  + Ascent speed moved to custom field
* GF surface added to custom field
* pO2 high popup removed in OC mode
* Symbios wrong CCR battery status at startup fixed

FW 2.24.06

* Display blackout / freeze during popup message fixed

FW 2.24.05

* Automatic switch to symbios CCR screen during pO2 calibration
* .csv dive data logs reorganized
* Safety stop counts down between >=3 m and <=6 m and is displayed between >6 m and <=6.4 m
* LFT error popup bugfix (not shown any more after startup)
* added % in custom filed for battery SOC
* obsolete pixels cleared in the stopwatch field of big digits screen

FW 2.24.04

* Greenflash calibration factor is shown when symbios pO2 calibration results are displayed on the symbios CCR screen
* LFT error popup message added on CCR screen in case of no communication between rebreather and dive computer
* Dive timeout adjustable (SYSTEM → DIVE TIMEOUT)
* Bugfix in vibrator alarm switch off
* Safety stop counts down between >=3 m and <=6 m and is displayed between >6 m and <=6.3 m
* No standby in symbios CCR mode as long wireless data is received