

Document information

0.1 Abstract

This document contains release notes for the LX 10k. The user manual, installation manual, dataport and additional info can be found on www.lxnavigation.com.

0.2 Document status

Document status: PUBLIC

Document status	Explanation
Internal	Intended only for LX navigation staff
Public	Available publicly to all
Personal	Intended for a specific person and/or company, noted on this page
Dealer	Intended for a specific dealer, noted on this page
Manufacturer	Intended for a specific manufacturer, noted on this page

0.3 List of applicable products

Device	Version
LX 10k w/ digital indicator	V1.6
LX 10k w/ analog indicator	V1.6

0.4 Revision history

Document name	Document revision	SW version	Date	Revised by	Approved by	Notes
LX_10kRN	R1	1.6	10.6.2020	L.R.	N.S.	Up to version 1.6.112
	R2	1.6	2.7.2020	L.R.	N.S.	Up to version 1.6.136
	R3	1.6	14.7.2020	L.R.	N.S.	Up to version 1.6.151

Release notes

1.1 1.6.151/6508 (2020-07-14)

- Displaying "Select from the list" instead of empty field for Select TP/APT/AS item in Transfer menu

1.2 1.6.142/6504 (2020-07-06)

- Added Watchdog reset to waypoint sort loop on NRST page (possible fix for NRST page crashes)
- Delete task on 2nd seat if deleted on 1st and vice versa if Sync on change is enabled.
- Change for changing MC, bal, bugs on 2nd seat not being sent to user port via LXDT.
- Change for not sending MC, bal, bugs during editing.
- Change for APT freq. voice not being played if new APT received from 2nd seat (sync)....
- Total and remaining distance show "-" instead of 0.0 (when route not selected)

1.3 1.6.136/6495 (2020-07-02)

- Fix for voice output stuttering if initial page finished before "Set QNH" audio has been played to the end
- Fix for BT and WiFi status icons not being shown correctly on secondary units (including digital vario indicator)
- Circling radius Nav box title renamed from "RAD" to "CIRC RAD"
- Odin version in device info production page
- Additional RAM space optimizations
- Cirrus renamed to Cirrus in glider list
- Added Flarm ID to Flarm info in Setup -> Service menu
- Showing "-" instead of false values for distance, FG, bearing and req. eff. in navboxes when no TP/APT/TSK/NRST is selected.
- Change for Brightness setting. Before it was being synchronized between 1st and 2nd seat device. Now each has individual setting.
- Fix for changing the MC values by the user port via \$LXDT,SET,MC_BAL which changed MC for the primary device only. Now it is sent to 2nd seat also.

1.4 1.6.119/6478 (2020-06-15)

- Optimizing Setup menu for saving RAM space
- AHRS page renamed from PFD back to AHRS in Pages setup
- Added language Italian

1.5 1.6.112/6457 (2020-06-10)

- Protocol extended with additional navigation and sensor data as requested by LK8000 and XC Soar developers

1.6 1.6.110/6453 (2020-06-08)

- Added password for formatting internal SD
- Fix for updating CAN units does not start if maps are disabled in settings.

1.7 1.6.102/6446 (2020-06-02)

- Fix for WiFi BT Server name (SSID) default value longer than max size in settings (issue reported by Marco)
- Fix for crashes on airspace preview

1.8 1.6.100/6441 (2020-06-02)

- Fix for "Delete all files" password not deselecting DB files.
- Fix for wrong SW version in CAN unit info
- Changed conditions for secondary device (including 10k digital vario indicators) shut-down - now it shuts down only if not in flight and without power supply.
- Added Setting to disable maps
- Added languages: German, Danish, Norwegian, Dutch

1.9 1.6.90/6423 (2020-05-27)

- Fix for aircraft icon not syncing to 2nd seat

1.10 1.6.86/6410 (2020-05-25)

- Fix for kg/min unit and minor fixes on other unit characters
- Common text file for Eos 80, Era, 10k, TM and Horizon

1.11 1.6.70/6381 (2020-05-12)

- Minor fixes: "airbreakes" -> "airbrakes"; Indicators setup reordered,

1.12 1.6.49/6367 (2020-05-07)

- Added unit mbar
- Fix for Sort by ICAO
- Minipage statistics fix for Max IAS (before it was current value)
- Added "+" and "," signs to basic keyboard (needed for flap settings)
- Fix for Battery low warning
- Fix for update more than one device over CAN
- Default task zones menu fixed (titles and item visibility)

1.13 1.4.29/6345 (2020-04-28)

- Long update file names enabled.
- AHRS page stripe widgets color fixed on white theme.
- Added "This list is empty" text to Airspace and Logbook page if list is empty.
- Added Flight Manager class for detection of flight phases and landings + corresponding NavBoxes.

1.14 Automated builds (from 2019-06-17 to 2020-04-06)

- Added cage AHRS in Setup -> Service menu
- Warnings -> Altitude renamed to Max. Altitude
- Sending shutdown command (MCS) on main unit shutdown
- Implemented flap position settings
- Improved Timezone select menu
- Added DST
- Low battery warning added
- ICAO code shown on APT/TP details page
- Added navboxes thermal avg, max in gain
- Added popup message when SSID name is changed that WiFi should be restarted for change to take effect
- Fixed map background color according to selected theme
- Default map colors set to more visible on both white and black theme
- Added remove pilot feature
- Black border added to arrows on Flarm page.
- Added option to turn off altitude warning.
- AIR Avionics ACD support.
- Added filter for most important values when saving to model.
- Added polar Technoflug Piccolo.
- Added notifications for red cross on AHRS, Flarm and navigational pages.
- Added setting for sending frequency on APT select.
- TRIG radio support.
- Multiple TP AS file selection supported.
- Selected TP/APT/AS/FlarmNET files setting moved from User to System.
- SC Switch setting moved from Vario/SC to Glider menu.
- Glider Reg Nr, Comp Id, Class settings moved from User to System.
- Improved and simplified Network setup.
- Pilot Copilot synchronization between 1st and 2nd seat (fixes problems with wrong Total mass, STF etc.)
- Task finish altitude implemented.
- New polar added Diamant 16.5
- WiFi symbol in status header coloured green if connected to WiFi.
- Added some additional characters to WiFi password keyboard.
- Ignoring AS warnings for 5 min after take-off.
- AS warning close button is settable in Setup > Warnings -> AS close button.
- Logger start speed is settable in Setup > Logger -> Start speed.

- Support for accepting and syncing mail with Zeus.
- Adding progress, info and warning messages for different states occurring during sending IGC file to email.
- Minor graphical fixes (menu icons).
- Fix for Flarm Net file deselecting on device restart
- Improved graphics.
- Improved airspace warning settings.
- Added new polars.
- Improved distance calculation for task.
- Active TP, APT and task synchronization between 1st and 2nd seat.
- Added Tail drawing on map.
- Added support for new temperature sensors.
- Sending mail implemented.
- We can now send igc file to mail address.
- We can now connect to device with flarm data and receive that data.
- Improvements for bluetooth menu.
- Minor code improvements.
- General bt/wifi improvements.
- Active TP, APT, Task and DB files (TP, APT and AS) synchronization between 1st and 2nd seat.
- Fix on AGL NavBox (showing "—" if elevation not available).
- Statistics page multi color graph and re-positioning elements.
- Display glider position on AS preview page.
- LX NMEA 2.0 protocol: added outputs for McBal, AHRS.
- Task export implemented
- Added glider icon setting
- Setup menu optimization (releases some heap and fixes random crashes)
- LX NMEA 2.0 supported on BT
- Radio commands and data output supported in LX NMEA 2.0 protocol.
- G-Micro sentences forwarding to user port/bluetooth
- Added password for GPS last fix set to currently selected TP location
- Implemented protocol for setting whole declaration from android devices (Set TP, Zones, Glider, Pilot).
- Added NMEA sentences for settings task parameters (AAT time, finish alt), Mc, bal, bugs etc.
- Say avg. vario in thermal (once every turn)
- Added navbox circling radius
- Added navbox effective thermal avg
- Implemented sending task declaration to Flarm device on edit task in menu, received over BT or user port and import from SD

1.15 Version 1.0.10 (2019-03-08)

- Updated fonts.
- Navbox select shortcut added in setup menu.
- Navbox icon colour same as text colour.

1.16 Version 1.0.04 (2019-01-25)

- Added progress bar for map loading.
- Unified look of red cross for invalid data.
- General code improvements.
- Steering refresh rate improved.
- Added confirmation when deleting task.
- Added white on black colour palette.
- Restarting task if start conditions are met again while on first leg.
- Added battery and OAT indication.
- Selectable navbox menu added.

1.17 Version 0.5 (2018-11-14)

- Color palette changed for visibility (from turquoise to green).
- Improvements to airspace warnings.
- General code improvements.
- AHRS page improved.
- General GUI improvement.
- Flarm info added to GPS info page.
- Flarm error popups added.

1.18 Version 0.3 (2018-10-01)

- Ability to turn off APT and TP names added.
- Improved airport icons.
- Airspace manager added.
- General GUI improvements.
- Wifi and Bluetooth dialogs added.
- Improved icons.

1.19 Version 0.2 (2018-09-07)

- General GUI improvements.
- Improved quick setup.
- Added start and finish task turnpoints.
- Added quick next/previous buttons in edit zone.
- Task preview added.
- Active task indication.
- Distances added to navigation pages.
- Competition manager added.
- Waypoint details page added.
- Added themes.
- Logbook details page updated.
- Filtering and sorting airports and turnpoints added.
- Improved text position on maps.

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