

Phase Firmware Version 5

Detailed list of all included items

RADIO COMMUNICATION PROTOCOL

- Total re-work of the radio communication protocol.
- Exclusive communication system added between the Remotes and Receiver (unique link for each Remote).
- Added continuous channel change for a more stable signal.
- Added self-adjustment of transmission power.
- New automatic detection of usable and more stable radio channels.
- Improved problematic-channel detection system.
- New statistics-calculation system.
- New bypass mode for Remotes transmission power. (Remotes will use the maximum power for radio transmissions).

REMOTES

- Addition of statistics on the radio behavior of the Remotes to detect unexpected behavior.
- Added stats on the number of times the speed exceeds the maximum limit.
- Slight changes to Digital Signal Processing (DSP) algorithms.
- Improved and faster calibration process.
- Debug responsible for infinite calibration.
- Added bug counter.
- New stats on remotes crashes.
- Fixed crashes responsible for random recalibration.
- Fixed bug in the log system.
- Fixed bug on the automatic restart system solving frozen Remotes.

REMOTES SHUTDOWN

- New Remote detection system added in the Receiver when disconnected for immediate 'Remote shutdown' (New feature).

RECEIVER

- New set position to avoid loss of precision.
- Faster recovery of RSSI and Remotes radio performance.
- New stats added to improve Remotes' performance.



- New position calculation engine for HID and more accurate prediction in case of signal loss.
- Total redesign of the Remotes' detection system to be faster and more reliable.
- New unique ID system per remote for better pairing.
- Faster, simpler and more reliable pairing system.
- New added LED animation to the Receiver in case of failure.
- Custom frequencies added and immediate switch when poor quality is detected.
- Synchronization of saved data with USD status.
- Flush of endpoints out of USB when saving.
- Double pairing detection to save only once.
- Improvement of the recovery process.
- USB configuration registration added.
- USB LED configuration registration added.

HID features in preparation of the upcoming Serato integration

- New engine for calculating information sent to Serato.
- Added HID timestamp independent of the Remote's data.
- New calculation of HID position.
- Added authentication key for upcoming Serato integration.
- Improvement of LED control.
- Definition of the behavior of the last HID fields.
- Added setting to activate / deactivate the modification of the LEDs by Serato.
- Added USB reboot if the HID interface is activated but without reading for more than 200ms.
- HID endpoint flush in before sending the authentication response (Serato).
- Added setting to activate / deactivate the modification of the LEDs by Serato.

LED

- New animation on the USB LED when USB packets are sent / received
- Automatic color setting of the USB LED as same as DECK A
- Fixed color bug.

OTHER

- CRC check received by the register manager on write packets.
- Added security mode for USB readings from Phase Manager
- Fixed bug in the log system.
- Improvements on the precision of internal clocks.
- And much more...

