DistoX2 Update Manual

Leica Disto X310 based DistoX

2014/08/08

Introduction

The DistoX2 board allows updating the firmware to a newer version over the Bluetooth connection. To perform an update, follow the points in this manual.

Setup

You need the Updater (DistoUpdateV23.exe) and PocketTopo on the device used for the update. First configure and test the connection to the DistoX using PocketTopo.

Check the versions of the hardware and firmware on your Disto:
- If needed, press CLR to switch off the Laser.
- Press the FUNC key twice to show the versions.

The actual firmware version is 2.3. It runs on the hardware versions 0.9 and 1.0.
An update from 2.1 to 2.2 does not change the measurement store and the user preferences.

Make sure your device is fully charged or connect a charger during the update!

Shut down PocketTopo before you start the Updater to avoid conflicts on the Bluetooth connection!

Bootloader Mode

For the actual update, the Disto needs to be started in Bootloader mode:
Press and hold the PLUS and MINUS keys while switching on with the DIST key.
The display illumination will switch on but the screen remains empty.
The Disto cannot be used for anything else but an update in this mode.
It can be switched off at any time using the CLR key.

Update

To start the update, run the DistoUpdate program and use the “Update” function.
The progress of the update is written to the screen.
After a successful update, switch the Disto off with the CLR key and on again with the DIST key. Check the new firmware version as shown above.
If the update fails, restart the Updater and try again.

Dump

The “Dump” function in the DistoUpdate program stores a copy of the whole DistoX memory to a file “DistoXDump.bin”. It can be used for data recovery and problem analysis.

Version History

Version 2.0
Used for prototype boards only.

Version 2.1
First production version.

Version 2.2
Small improvements:
- Use lower M sensor sensitivity to avoid numeric overflow under all conditions.
- Avoid result degradation due to too short measurements.
- Correction of unit in display of gravity sensor absolute value.

Version 2.3
- Laser and measurement trigger over Bluetooth.
- Accelerometer non-linearity correction.
- Endpiece offset configuration.
- Display illumination level configuration.