

# Release Notes Firmware Release 1.5.0

## 1. Introduction

This document contains all information you need for updating your Newton head to firmware version 1.5.0. The software and USB to CAN dongle is compatible with Windows (7, 8, 8.1 and 10) or macOS (tested with v10.14 Mojave, others might work).

**IMPORTANT!:** Update all of the devices (Controller, Head, camera/lens dongles) to the latest firmware version to ensure compatibility.

## 2. Changelog

The 1.5.0 release contains some minor bugfixes along with a few major new feature compared to 1.4.x.

Compared to the previous major release (1.4.x) the following has been changed:

- Add lens mapping for explicit and configurable mapping of the focus values. This provides a way to match the focus values shown on the lens with what is shown in feedback in the C1/C2 controller
- Users of the C2 controller can now use the RS232 port on C2 controller and S2 head for communication. This allows use of a wider range of radio modems or embedding the signal in another transmission system
- FIZC communication has been rewritten to provide more consistent result in cases of bad connection

The 1.5.0 is a new major release and for compatibility both C1/C2 controller and S1/S2 head must be updated. In addition the FIZC dongles *must* be updated to the 1.3.x series.

## 3. Update Instruction

### 3.1. Install USB to CAN interface driver

This step is required on Windows computers the first time you want to utilize the IA USB to CAN interface.

1. Run the file **dpinst\_32.exe** (for 32-bit Windows) or **dpinst\_64.exe** (for 64-bit Windows) from the **windows-drivers** folder
2. Follow the on-screen instructions to install the driver
3. Connect the USB-CAN interface to the computer
4. The USB to CAN interface should now be visible in the device manager under the "Ports" section

### 3.2. Upgrade firmware

1. Connect CAN dongle via USB to the computer
2. Connect CAN connector of CAN dongle to one of the CAN ports on the Newton device
3. Run **firmware\_gui.exe** from the Windows folder or **firmware\_gui.app** from OSX folder
4. Follow the instructions in the installation wizard. From the **firmware** folder, select the correct file for the product you are updating
5. Press update