

Software Release Notes - Newton S / S2 and Dominion

RELEASE 1.2.2

Intuitive Aerial AB - 2019-08-13

1 Introduction

This document contains all information you need for updating your Newton head to firmware version 1.2.2. The software and USB to CAN dongle is compatible with Windows (7, 8, 8.1 and 10) or OSX (tested with v10.12.3 Sierra, others might work).

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

2 Changelog

The 1.2.2 release is a minor bugfix release compared to 1.2.0, however upgrading is strongly recommended. Compared to the previous major release (1.1.0) the following has been changed:

- Changed the default pan drift compensation mode from "OFF" to "ADAPTIVE". It has been identified that the "ADAPTIVE" mode provides better performance in almost all cases, so it is a better default setting. If you changed this manually before you should make sure it is set to "ADAPTIVE"
- It is now possible to view the factory calibration of the Dominion under the "Advanced" settings-tab
- Implemented a new self diagnostic and error reporting framework. If you, by bad luck, have any electrical faults of your Newton unit it will now show an error code that can help Intuitive Aerial support department localize the error without having to send the unit for service
- This release includes an experimental feature called "Motion Record" that allows recording of movements within the Newton and then playing them back for automatic movements. The feature is tagged experimental, due to part at this point it is limited to only movement (no lens control) and lacking in features of a full-featured motion control system and part that it will be changed substantially in future releases. It can still be used and Intuitive Aerial is eager to hear feedback on what the feature should do

3 Update Instruction

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" or "dpinst_64.exe" 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

Upgrade firmware

1. Connect CAN dongle via USB to the computer
2. Connect CAN connector of CAN dongle to one of the IA-CAN ports on the Newton
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

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