

FIRMWARE UPGRADE



Vortex3 High Flow Air Sampling Pump

PROC458 Rev 1

July 2021

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Introduction

This guide is intended to guide a user through the necessary steps to upgrade the firmware on the Casella Vortex3 High Flow Air Sampling Pump and describes each process in a step by step manner.

If assistance is needed during any process in this guide, support can be obtained online from helpdesk.casellasolutions.com or by calling **+44 (0)1234 844100**. When contacting Casella Product Support, please reference the document number and the step number of the flow diagram or list if necessary.

The latest version of the Vortex3 Upgrade Utility and Vortex3 firmware revisions can be downloaded from the Casella Website or Extranet. If a new firmware version is available, a Technical Bulletin will be released by Casella Product Support. The new version will then be uploaded to the Casella Website and Extranet for download.

This is a controlled document and is not to be amended by anyone other than Casella Product Support. Should you have any feedback or wish for any amendment to be made to this document, please contact Casella Product Support via the contact details on the cover providing the document number and change request details.



WARNING

Updating the firmware on your Casella Vortex3 may erase any information stored in the unit. Please make sure you have backed up your data before attempting this procedure.

Equipment required

Before proceeding with the firmware upgrade process, please make sure you have the following equipment:

2.5mm hex bit

Torque driver

Casella Vortex3 High Flow Air Sampling Pump

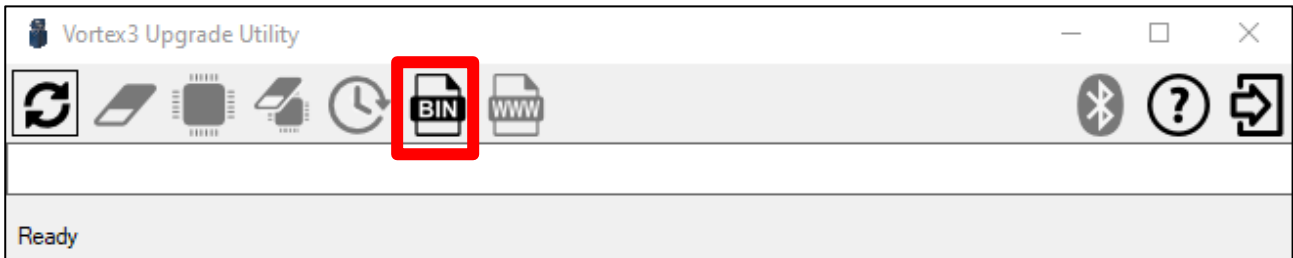


**Vortex3 High Flow Pump CMC51 USB Cable (Modified)
(217049B)**



Firmware upgrade method

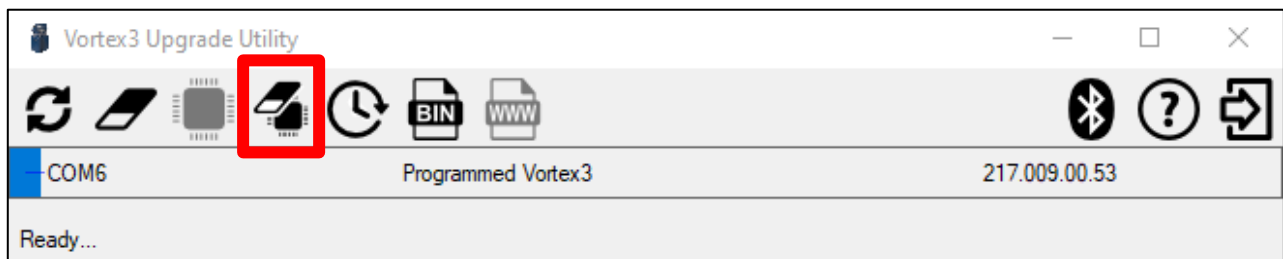
1. Download the correct version of Casella Vortex3 firmware from the Casella Website or Extranet and save to an accessible location.
2. Install the Vortex3 Upgrade Utility and open the software.
3. Click 'Select BIN File' and locate the firmware file downloaded in Step 1, then click 'Open' to select the firmware file.



4. Remove 2 x screws from the USB cover using the 2.5mm hex bit and torque driver, retain and remove the USB cover from the pump.
5. Connect the Vortex3 to the PC and power on. Click 'Search For Devices' to locate the pump to be upgraded.

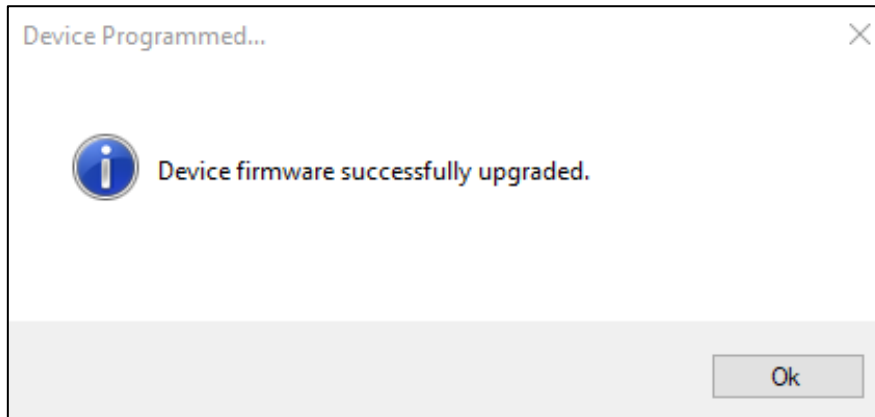


6. Click 'Erase/Program Device' to start firmware upgrade process.

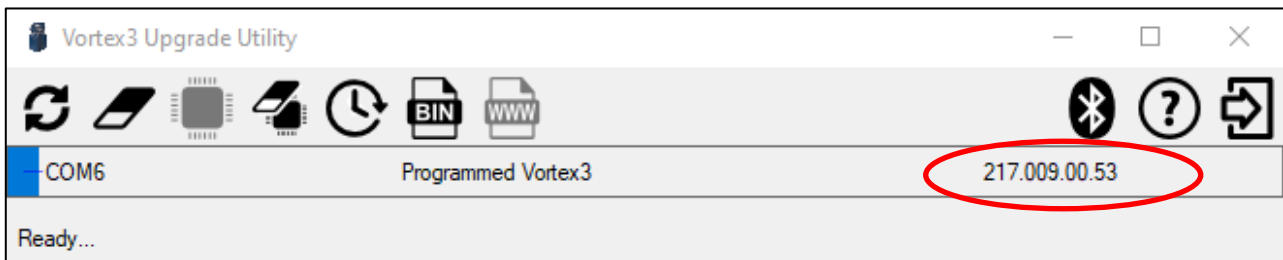


DO NOT UNPLUG THE INSTRUMENT!

7. A dialog box will confirm that the firmware upgrade is complete.



8. Click 'Ok', the software will refresh and display the new firmware version.



9. Disconnect the pump from the PC.
10. Ensure the O-ring is seated around the USB connector.
11. Carefully fit the USB cover and secure with the screws retained in Step 4 using the 2.5mm hex bit and torque driver. **Torque Setting 30cNm.**
12. Power Vortex3 on, upgrade is complete.