Chromium Controller Firmware Update Procedure

FOR USE WITH

Chromium Controller & Next GEM Accessory Kit PN-120223

Chromium Single Cell Controller & Next GEM Accessory Kit PN-1000202

Instructions are applicable for use with a Windows PC ONLY

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Notices

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Legal Notices

Instrument & Licensed Software Updates Warranties

Updates to existing Instruments and Licensed Software may be required to enable customers to use new or existing products. In the event of an Instrument failure resulting from an update, such failed Instrument will be replaced or repaired in accordance with the 10x Genomics Limited Warranty, Assurance Plan or service agreement, only if such Instrument is covered by any of the foregoing at the time of such failure. Instruments not covered under a current 10x Genomics Limited Warranty, Assurance Plan or service agreement will not be replaced or repaired.

Support

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Firmware Update Procedure

GET STARTED!			
Action	**Item**	**10x PN**	**Other Suppliers**
Obtain	Cable USB A MALE - B MALE 1M BLK	3000173	Digi-Key Part Number 1175-1417-ND

System Requirements

Instructions are applicable for use with a Windows PC ONLY.

Windows systems that meet these minimum requirements:

- Quad-core Intel or AMD processor
- 32GB (64 recommended)
- 8GB free disk space
- Windows 8, 10 (64 or 32bit) – .NET 4.5
    - ◊ Admin privileges are required to install the application

1.
Initialize the
Chromium Controller

These instructions are applicable for use with **a Windows PC only**.

a. Ensure the PC is turned ON and connected to the Internet.

b. Ensure the Chromium Controller is positioned in accordance with recommendations in the Controller Specifications and is turned OFF.

c. Remove the rubber cap from USB **port B** on the back of the Controller. A tweezer or a pointed object may be used to remove the rubber cap.

d. Insert **plug B** of the USB cable into the complementary USB **port B** of the Controller.

e. Turn the Controller ON using the power switch on the back of the Controller. The Controller touchscreen will indicate initialization is in progress.
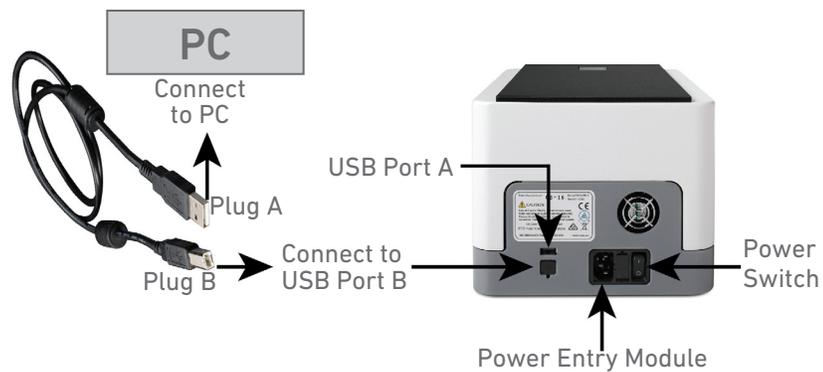
2.
Verify Chromium
Controller Function

a. After initialization is complete, insert **plug A** of the same USB cable into the complementary USB **port A** on the PC (see above illustration).

b. Open and close the Controller tray to check tray functionality.

c. Verify the firmware by selecting the menu (hamburger stack) in the upper right-hand corner of the Controller home screen

d. Use the "device" tab and the "firmware" tab to check current firmware version.

3.
Initiate the Firmware Update

a. Download and install the Chromium Controller Firmware Update Program on the PC from support.10xgenomics.com. After the program has launched and has detected the Controller, click the play button on the PC screen to begin update. A progress bar will be displayed on the PC screen during the update. The update will take **2–3 min**.

⚠️ During the firmware update, **both the PC and the Controller should remain turned ON with the USB cable connected**.

Representative PC Screen
Click the Play Button to Update

Update in Progress

b. After update is complete, the PC screen will display "Firmware Upgrade Complete". Disconnect the USB cable from the Controller and the PC.

c. Turn the Controller OFF.

d. Turn the Controller ON. Confirm the firmware update by selecting the menu (hamburger stack) in the upper right-hand corner of the Controller touchscreen. The "device" tab should display the same Control Board Firmware Version as displayed on the PC screen at step b.

Contact
support@10xgenomics.com
if any errors are encountered during the procedure.

e. Consult the Chromium Single Cell Controller Readiness Test (Document CG00051) or the Chromium Controller Readiness Test (Document CG00025) to run the System Readiness Test.