

Canon Compact Digital Camera Firmware Update Procedure

PowerShot G1 X Mark II

Firmware is software installed to control the equipment; it is the firmware that handles many of the compact digital camera's operations, such as shooting or image processing. The instructions that follow explain the steps for updating the camera with new firmware (by overwriting the existing firmware).

Make sure you have read the precautions and procedures below carefully before updating the firmware.

IMPORTANT: Observe the following precautions when updating the firmware

- Please use a fully-charged, dedicated battery pack and a dedicated AC adapter kit to power the camera.
- Before updating the firmware, initialize the SD, SDHC or SDXC memory card in the camera. When you initialize the SD memory card, any data written on it will be erased, so please be sure to save a copy of any important data on the card to your computer or somewhere other than the card prior to initializing it.
- Please be absolutely sure not to turn the power switch on the camera to OFF during the firmware update. If using a household power source, please be careful about power outages.
- During the firmware update, please do not open the battery cover or the memory card slot cover.
- During the firmware update, please do not operate any of the camera's buttons, dials or switches.
- After the firmware update is completed, it is not possible to revert back to a previous version.
- In the unlikely event that an error occurs during the firmware update, please remove the battery and stop the update procedure. Check the remaining battery level and the firmware on the card, and if there are no problems, start over the procedure from the beginning. If the update procedure cannot be correctly completed, please contact a Canon service center.

Step 1. Prepare the items required to update the firmware

The following things are required to perform this camera firmware update. Please have these items ready in advance.

1.	Camera body	Model covered by this update
2.	Computer	OS: Computer with either Windows or Mac OS X
3.	SD Memory Card	A 32 MB or higher-capacity SD Memory Card, an SDHC Memory Card, or an SDXC Memory Card (both commercially available)
4.	Memory card reader/writer	A memory card reader/writer (commercially available) or an SD card slot on the computer. * If using an SDHC/SDXC memory card, you must use it with a compatible card reader/writer or card slot.
5.	Battery	The battery pack that came with the camera Or AC Adapter Kit
6.	Firmware update file	The file that can be downloaded from the Web site.

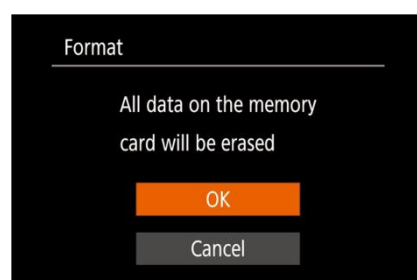
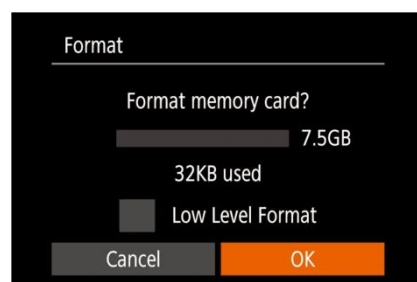
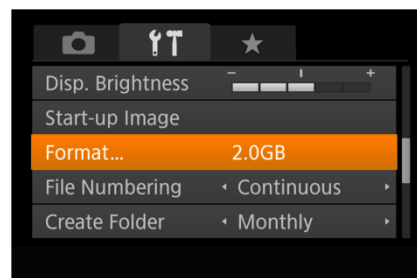
Step 2. Prepare an SD memory card for the firmware update

Caution

When you initialize the SD memory card, all of the data saved on it will be erased, so please save any important data on the card to your computer or somewhere else before initializing the card. If you perform the firmware update with data remaining on the SD memory card, it could cause the camera to malfunction.

Initialize the SD memory card with the camera.

1. Insert the battery pack into the camera.
2. Press the power button to turn the camera on.
3. Press the [MENU] button to display the menu screen.
4. Move the zoom lever to choose the [YT] tab.
5. Press the [▲][▼] buttons or turn the [●] dial to choose [Format...], and then press the [FUNC SET] button.
6. Choose [OK], and then press the [FUNC SET] button to format the memory card.
* For details, please see the Camera User Guide.
7. Press the power button to turn off the camera.



Use a computer to copy the firmware to the SD memory card that was completely initialized in the camera.

Please perform the procedure that corresponds to your computer's operating system (Windows or Mac OS).

*#### indicates the name of the latest firmware version.

For Windows

1. Insert the initialized SD memory card into the SD card reader/writer.
2. If you click on the Computer icon, an icon labeled [CANON_DC] appears.
3. Drag the firmware update data, [PSG1X2_####.FI2] from the downloaded [psg1xmk2-v####-win] folder to the [CANON_DC] icon.

Caution

Please be sure to copy the firmware to the root directory of the SD memory card.

4. After copying the data, double-click the [CANON_DC] icon, and if the firmware update data, [PSG1X2_####.FI2] is there, the copying process is completed.

For Mac OS

1. Insert the initialized SD memory card into the SD card reader/writer.
2. An icon labeled [CANON_DC] will appear on the computer's desktop.
3. Drag the firmware update data, [PSG1X2_####.FI2] from the downloaded [psg1xmk2-v####-mac] icon to the [CANON_DC] on desktop.

Caution

Please be sure to copy the firmware to the root directory of the SD memory card.

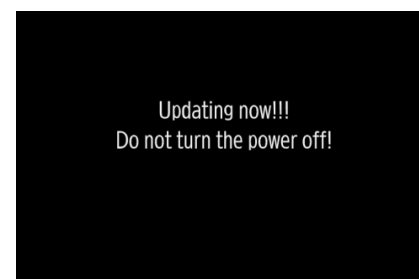
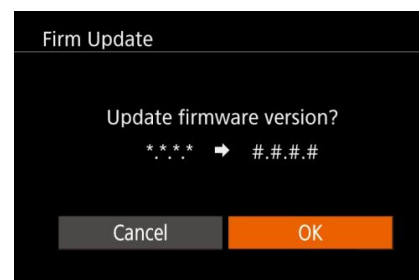
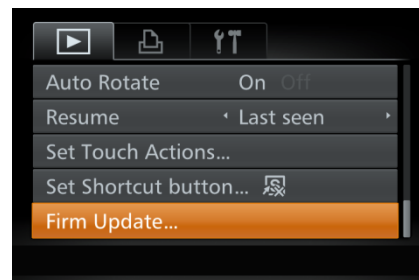
4. After copying the data, double-click the [CANON_DC] icon, and if the firmware update data, [PSG1X2_####.FI2] is there, the copying process is completed.

Step 3. Update the camera to the new firmware

1. Insert the SD memory card to which [PSG1X2_####.FI2] was copied in Step. 2 into the camera.
2. Press the [▶] button to turn the camera on in Playback mode.
3. Press the [MENU] button to display the menu screen.
4. With the [▶] tab selected, press the [▲][▼] buttons or turn the [●] dial to choose the [Firm Update...], and then press the [FUNC SET] button.
5. The firmware update confirmation screen appears, so select [OK], and then press the [FUNC SET] button to start the firmware update.

Caution

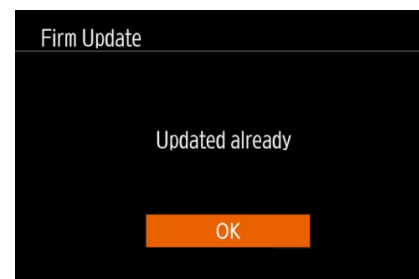
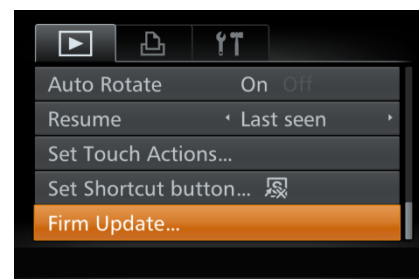
During the firmware update, the lamp on the back of the camera will blink. During this time, please do not turn off the camera or operate any of its controls. Doing so could cause camera malfunctions



6. After the update is completed, the lamp on the back of the camera will stop blinking, and the power will be automatically turned off.

Step 4. Check whether the firmware of the camera has been updated to the new version

1. Press the [▶] button to turn the camera on in Playback mode.
2. Press the [MENU] button to display the menu screen.
3. With the [▶] tab selected, press the [▲][▼] buttons or turn the [●] dial to choose the [Firm Update...], and then press the [FUNC SET] button.
4. Check whether the firmware of the camera has been correctly updated to the new version. If "Updated already" appears, the firmware has been correctly updated to the new version.
5. Press the power button to turn off the camera, and then remove the SD memory card.



This completes the firmware update.

Caution

After the firmware update is completed, please make sure to initialize the SD memory card to which the firmware update file was copied before using the memory card. Also, please delete the firmware you downloaded from your computer.