



SD Formatter 3.0

User's Manual

Version 1.06

SD Card Association

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1. Introduction

The SD Formatter formats SD Memory Card, SDHC Memory Card and SDXC Memory Card (collectively SD/SDHC/SDXC Cards) complying with the SD File System Specification created by SD Association (SDA).

The SD Formatter formats SD/SDHC/SDXC Cards optimizing with these card's performance etc.. It is strongly recommended to use the SD Formatter to format SD/SDHC/SDXC Cards rather than using formatting tools provided with operating systems. In general, formatting tools provided with operating systems can format various storage media including SD/SDHC/SDXC Cards, but it may not be optimized for SD/SDHC/SDXC Cards and it may result in lower performance than using the SD Formatter.

SD/SDHC/SDXC Cards have "Protected Area" in the card for SD security function. The SD Formatter will not format the "Protected Area". Please use appropriate application software or SD host device which provides SD security function to format the "Protected Area" in the card.

SD Formatter does not support the SD/SDHC/SDXC card encrypted by the "BitLocker To Go" function of Windows. Please format the SD/SDHC/SDXC card after it is unlocked by the method specified by Windows.

2. System Requirements

2.1 Operating Systems

(1) For SD/SDHC Cards

- Windows 7
- Windows Vista
- Windows XP

(2) For SDXC Card

- Windows 7
- Windows Vista (SP1 or later)
- Windows XP (SP2 or later) with the exFAT file system update (KB955704)

The exFAT file system update is available at the following Microsoft Download Center:

<http://www.microsoft.com/downloads/details.aspx?FamilyID=1cbe3906-ddd1-4ca2-b727-c2dff5e30f61&displaylang=en>

2.2 SD Interface Devices

The following interface devices to access SD/SDHC/SDXC Card are available:

- SD slot on PC
- USB SD reader
- PC Card, CardBus or ExpressCard SD adapter

Please check your SD interface device is compatible with your SD, SDHC or SDXC Card before formatting.

3. Installation of SD Formatter

- (1) Close all application programs on your PC.
- (2) Execute the SD Formatter installation program which you downloaded from SDA website.
- (3) Follow the instructions from the SD Formatter installation program and complete the installation.

Note: If you have installed the SD Formatter already, you must uninstall the SD Formatter as described below, then install the SD Formatter again.

If "User Account Control" window is displayed on the screen during the installation, please click on [Allow].

4. Uninstallation of SD Formatter

4.1 Windows 7

- (1) Click on [Start] then click on [Control Panel].
- (2) Click on [Uninstall a program].
If View is "Big Icon" or "Small Icon", click on [Program and function].
- (3) Double click on [SD Formatter].
- (4) If confirmation window is displayed on the screen, click on [YES].
- (5) If "User Account Control" window is displayed on the screen, please click on [Continue].
- (6) Follow the instructions during the uninstallation of SD Formatter.

4.2 Windows Vista

- (1) Click on [Start] then click on [Control Panel].
In case of "Classic Start Menu", click on [Start] and point to [Settings], then click on [Control Panel].
- (2) Click on [Uninstall a program].
In case of "Classic View", click on [Program and Function].
- (3) Double click on [SD Formatter].
- (4) If confirmation window is displayed on the screen, click on [YES].
- (5) If "User Account Control" window is displayed on the screen, click on [Continue].
- (6) Follow the instructions during the uninstallation of SD Formatter.

4.3 Windows XP

- (1) Click on [Start] then click on Windows [Control Panel].
If you cannot find [Setting] and/or [Control Panel] from [Start] menu, click on [Start], then click on [My Computer] and [Change a setting] or [Control Panel] that exists on the left side of my computer menu.
- (2) Click on [Add or Remove Programs].
- (3) Select "SD Formatter" and click on [Change/Remove].
- (4) If confirmation window is displayed on the screen, click on [YES].
- (5) Follow the instructions during the uninstallation of SD Formatter.

5. Operation Guide

5.1 Description of SD Formatter Window

5.1.1 SD Formatter Main Window

When the SD Formatter is starting up, the following main window is shown on the screen. Formatting of SD/SDHC/SDXC Card is executed by clicking on the [Format] button in this window.

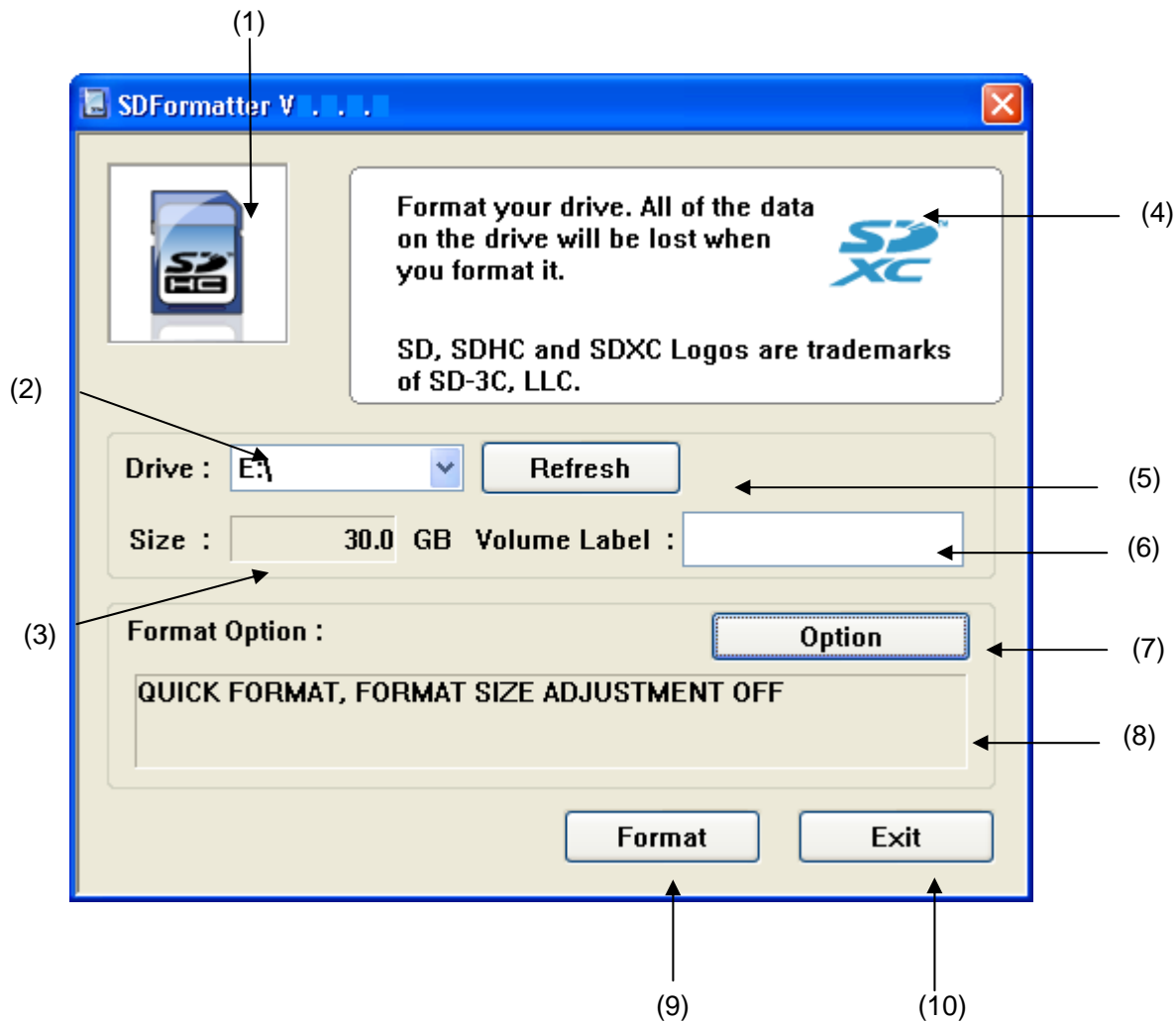


Figure 1: SD Formatter Main Window

(1) Status

This field indicates the status of SD/SDHC/SDXC Card and its interface device.

Blue: They are functional.

No Logo: Either SD/SDHC/SDXC Card or SD interface device is disabled.

Gray: They are disabled. It may be no SD/SDHC/SDXC Card is recognized by the SD Formatter.

- (2) Drive
This list indicates drives of SD/SDHC/SDXC Cards recognized by the SD Formatter. A drive on this list can be selected for formatting the card.
- (3) Size
This field indicates the capacity of SD/SDHC/SDXC Card on the selected drive.
- (4) Message Area
This area shows messages or instructions to users.
- (5) Refresh Button
This button is used to update the information of SD/SDHC/SDXC Card drives. When this button is clicked, the SD Formatter obtains the latest information of SD/SDHC/SDXC Card drives. Click this button when new SD/SDHC/SDXC Card is inserted to an SD interface device.
- (6) Volume Label
This field is used to display volume label written in the card and enter new volume label to be written into the card during formatting. You can enter up to 11 characters in the Volume Label field. If volume label has been written in the card in other language except English, this field may not be shown correctly. In this case, you should enter new volume label.
- (7) Option Button
This button is used to select options of the format operation. When this button is clicked, the format option window is displayed on the screen. Refer to 5.1.2 Format Option Windows for more information.
- (8) Format Options
This area indicates the current format options selected in the Format Option Window.
- (9) Format Button
This button starts the format operation. After clicking on this button, the confirmation window will be shown on the screen. You can continue or cancel the formatting.
- (10) Exit Button
This button is used to terminate the SD Formatter.

5.1.2 Format Option Window

When [Option] button is clicked, the following Format Option Window is displayed on the screen. The following format options can be selected.

- Types of formatting operations
- Format Size Adjustment options

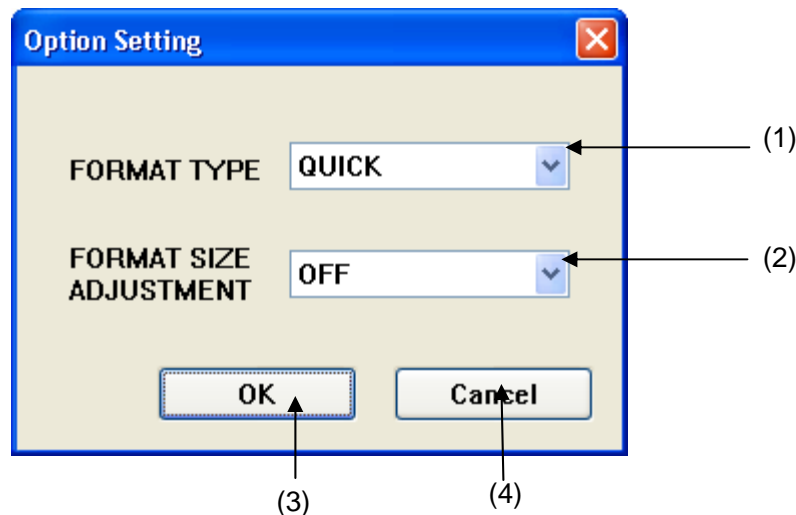


Figure 2: Format Option Window

(1) Types of formatting operations

The following types of formatting operations are shown on the list:

- QUICK
- FULL (Erase)
- FULL (OverWrite)

QUICK:

This option is a quick formatting and only initializes the file system parameters in the card, but not initializes user data area in your card. If you need to initialize user data area, use the other types of formatting operations shown below.

FULL (Erase):

This option initializes the file system parameter in the card, and initializes all the user data areas (Initialize it by executing erase processing (data deletion) of the card to all the user data areas). This option has the possibility that it takes the format time long according to the capacity of card.

There is something that doesn't support to the erase processing according to the SD interface device. The erase processing is skipped when "FULL (erase)" format type is selected in the unsupported environment. In this case it is same as selected QUICK option.

FULL (OverWrite):

This option initializes the file system parameter in the card, and initializes all the user data areas (Initialize it by overwriting the meaningless data to all the user data areas). This option has the possibility that it takes the format time long according to the capacity of the card.

(2) Format Size Adjustment

If the formatted capacity of the card is not a multiple of capacity in a cylinder, some hosts may not access the card successfully. This option adjusts formatted capacity to a multiple of capacity in a cylinder.

OFF:

This option does not adjust the formatted capacity. Usually, this option should be selected.

ON:

This option adjusts the formatted capacity to a multiple of capacity in a cylinder. This option may reduce the formatted capacity.

This option should be used by specific users who encountered a trouble with formatted capacity.

(3) OK Button

This button applies the selected option and quits from the window.

(4) Cancel Button

This button is used to cancel the selected option and quits from the window.

5.2 Completing Formatting

When completing the formatting, the following window is shown on the screen with formatted information.

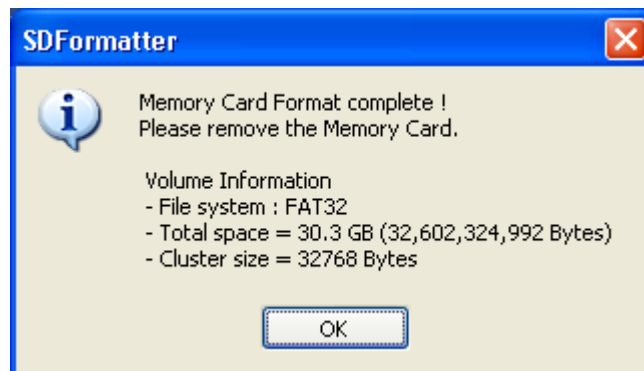


Figure 3: Window on Completing Formatting

5.3 Cancel Format Operation

You can cancel formatting operation during either “FULL (Erase)” or “FULL (OverWrite)” formatting.

- (1) Click on “Cancel” button during the formatting operation if you want to cancel it.

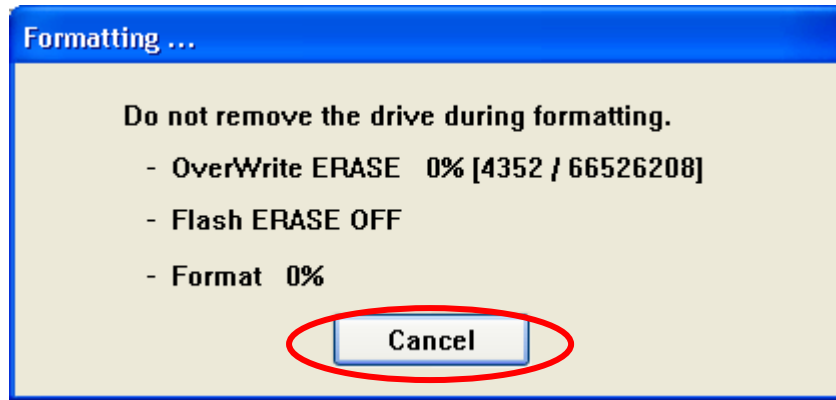


Figure 4: Cancel Formatting

- (2) If you cancel the formatting, user data will not be erased or overwritten, but the file system parameters are initialized as same as the QUICK formatting. The following window will be shown after cancelling the formatting.

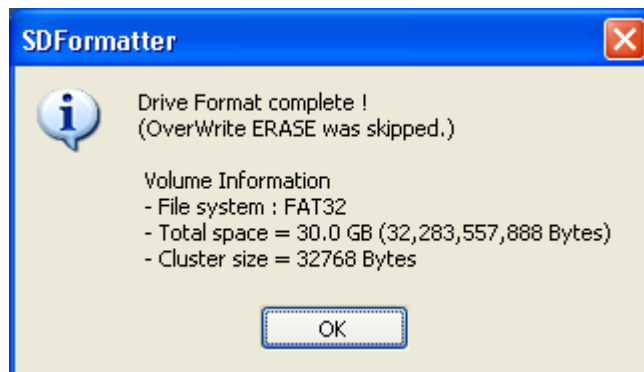


Figure 5: After Cancel Formatting

5.4 SD Formatter Version Information

Click on the following SD Formatter Icon and select “About SD Formatter (A)” to display the version information.

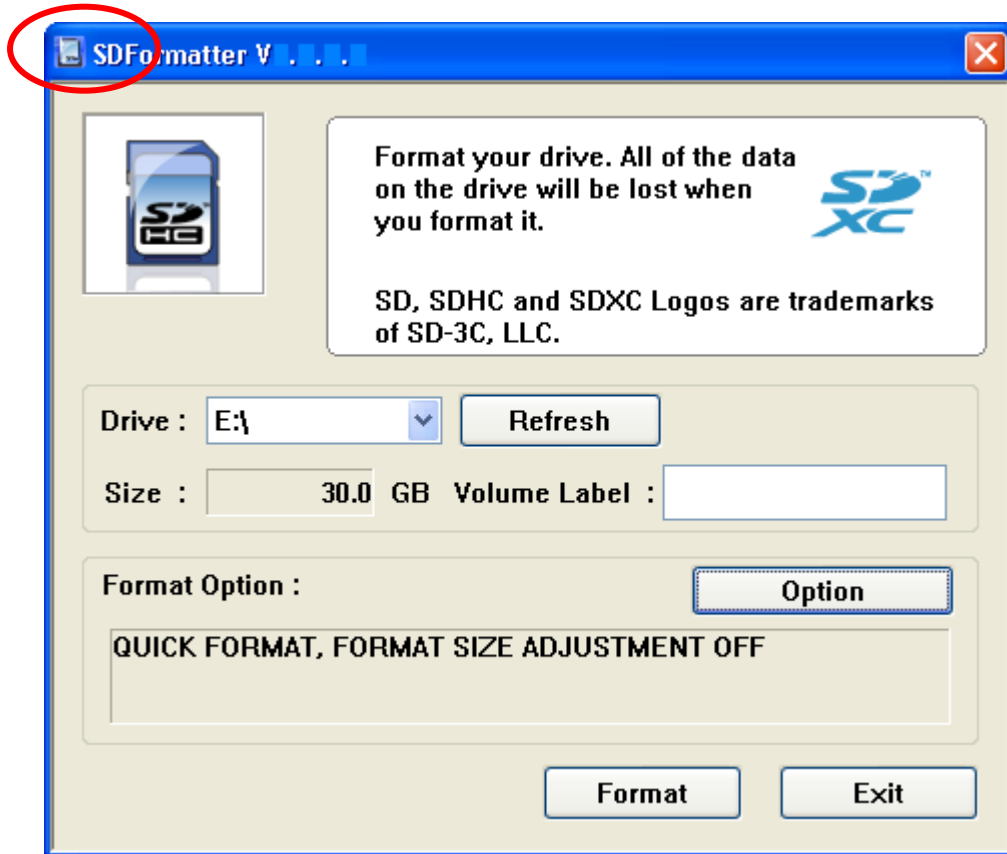


Figure 6: SD Formatter Icon

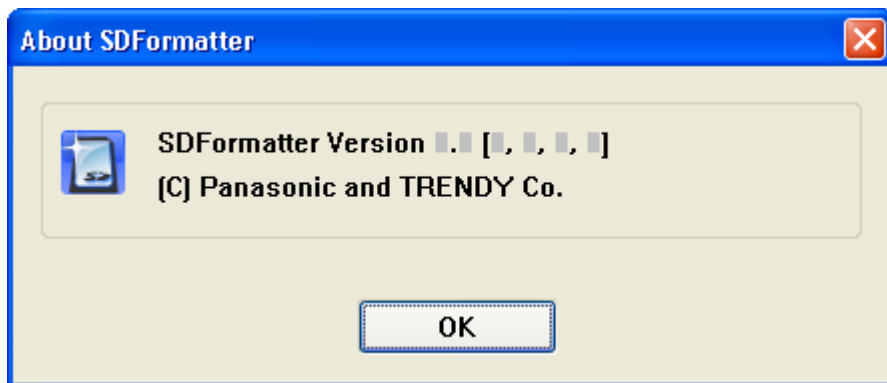


Figure 7: Version Information