

**Digital Photo Printer
CHC-S6245
Printer Driver Ver.1
Instruction Manual**

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Using your printer with Windows computers

The supplied CHC-S6245 printer driver enables you to print an image stored on your computer with the CHC-S6245 digital photo printer. To print an image from the computer, you need appropriate application software that can open the image and print with the printer.

Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation. In this instruction manual, Microsoft(R) Windows(R) operating system are written as follows:

Abbreviated name	Registered trademarks of Microsoft Corporation
Windows Vista	Microsoft(R) Windows Vista(R)
Windows 7	Microsoft(R) Windows(R) 7
Windows 8	Microsoft(R) Windows(R) 8
Windows 8.1	Microsoft(R) Windows(R) 8.1

System requirements

To use the supplied printer driver, you need a computer that meets the following system requirements:

OS: Windows Vista SP1 (32bit)

Windows 7 (32bit / 64bit) / Windows 8/8.1 (32bit / 64bit)

CPU: x86 processor 1 GHz or better (Windows Vista / Windows 7/ Windows 8/8.1)

x64 processor 1 GHz or better (Windows 7 64bit/ Windows 8/8.1 64bit)

RAM: 512 MB or more (Windows Vista Home Basic)

1 GB or more (Windows Vista Home Premium / Business / Ultimate

/ Windows 7 / Windows 8/8.1)

Disk free space: 15 GB or more (Windows Vista)

16 GB or more (Windows 7/ Windows 8/8.1)

Port: A built-in USB port on the personal computer.

CD-ROM drive: For software installation.

Notes

- (1) Be sure to connect the printer directly to your computer. Connecting it via a USB hub may cause the printer to not operate properly.
- (2) Do not use the printer together with other USB devices except a USB keyboard or mouse.
- (3) Do not connect two or more CHC-S6245 digital photo printers at the same time.
- (4) Do not unplug the USB cable during data transferring or printing. To do so may cause the printer to not operate properly.
- (5) The printer driver cannot be used for network printer.
- (6) Due to over print spool size restriction for Windows (commonly 4 GB), printing will be stopped. Please delete the print jobs, and re-print after divide the print jobs into several groups.
- (7) Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation.
- (8) Other names and products not mentioned above may be registered trademarks or trademarks of their respective companies.
- (9) If you have any questions or problems please contact chc-master@tokyo.shinko-elec.co.jp

Installing the printer driver (ex. for Windows 7)

NOTES

- (1) The explanations in this section are based on Windows 7 Home Premium. On another edition of Windows 7, the actual screen contents and procedures may vary from those shown.
- (2) You need to uninstall before installing the latest printer driver, if a previous version printer driver is installed on your system.

[Windows 8(64Bit) / Windows 8.1(32/64Bit)]

You need to “Disable driver signature enforcement” before installing the Windows 8(64Bit) / Windows 8.1(32/64Bit) printer driver as follows.

1. Press and hold the Windows key and the "I" key to launch the charm bar and click “Change PC Settings”.
2. [Windows 8(64Bit)] Click “General”.
[Windows 8.1(32/64Bit)] Click “Update and recovery” - “Recovery”
3. Scroll down and click “Advanced Startup”.
4. Click “Restart now”. The computer will restart to a startup menu.
5. Click on “Troubleshoot”.



6. Click on “Advanced options”.



7. Click on “Startup Settings”.



8. Click "Restart".

9. The computer will restart and prompts another menu to choose. One of the options is to "Disable driver signature enforcement". Press number 7 or F7 to continue booting to Windows 8, Windows 8.1 with digital signature enforcement disabled.

Startup Settings

Press a number to choose from the options below:

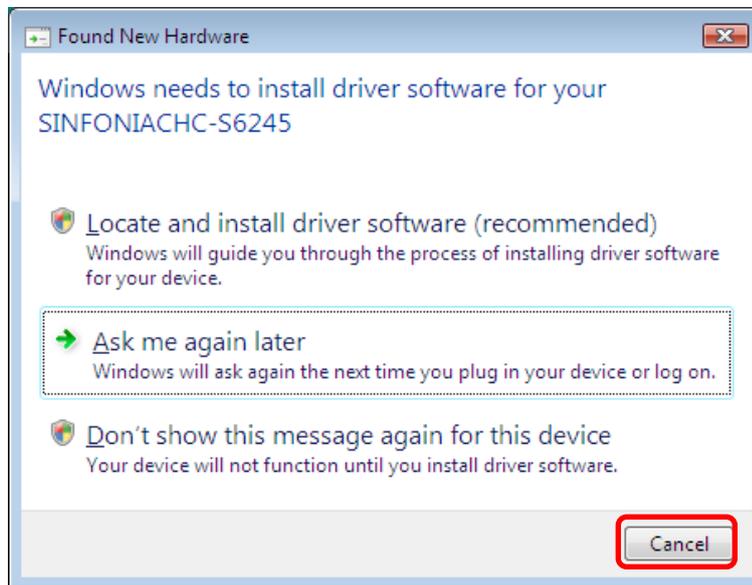
Use number keys or functions keys F1-F9.

- 1) Enable debugging
- 2) Enable boot logging
- 3) Enable low-resolution video
- 4) Enable Safe Mode
- 5) Enable Safe Mode with Networking
- 6) Enable Safe Mode with Command Prompt
- 7) Disable driver signature enforcement
- 8) Disable early launch anti-malware protection
- 9) Disable automatic restart after failure

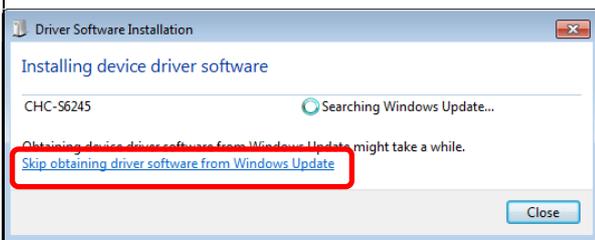
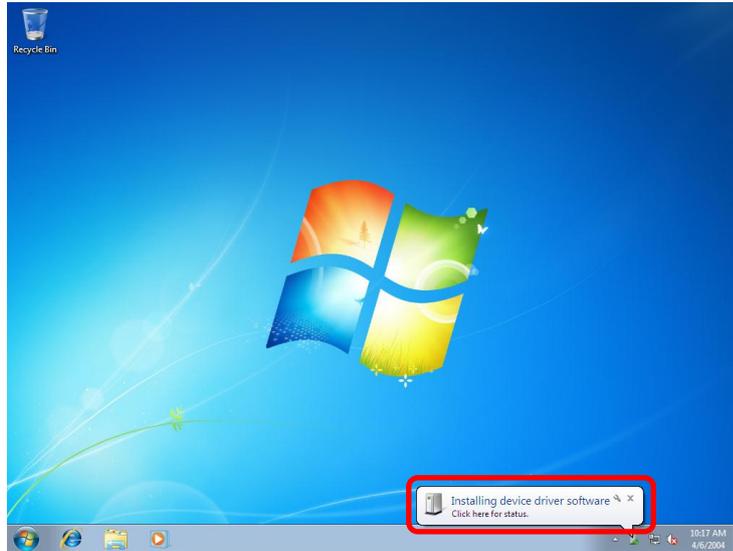
(Common operation procedure of each OS)

1. Make sure that the printer is turned off and not connected to the computer.
2. Turn on your computer to start the Windows.
 - Be sure to log on Windows as “Administrator”
 - Be sure to turn off any virus protection programs and to close other running programs before installing the driver.
3. Turn the printer on.
4. Connect the printer to your computer, using the USB cable.

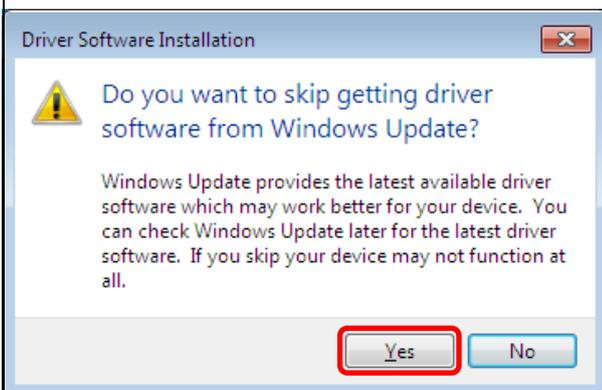
(Windows Vista) When connection is established, the following window appears automatically on a computer screen. Then, click “Cancel”.



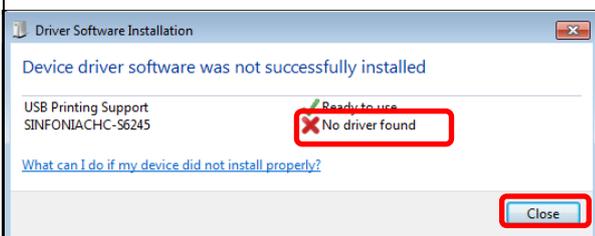
(Windows 7) When connection is established, the following balloon tip appears automatically on the taskbar. Click the balloon tip.



1. Click "Skip obtaining driver software from Windows Update".

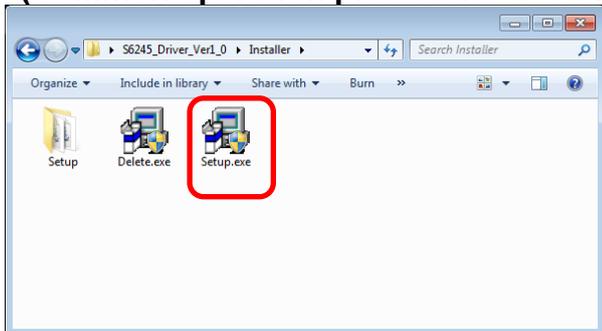


2. Click "Yes".

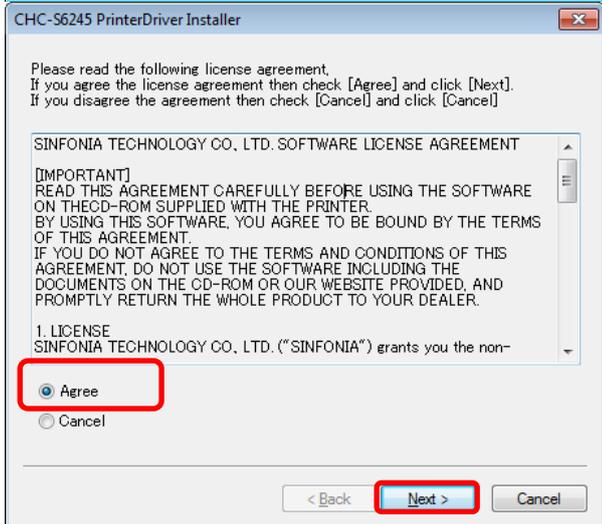


3. Wait until the "No driver found" appears on the right of "SINFONIAHC-S6245", and then click "Close".

(Common operation procedure of each OS)



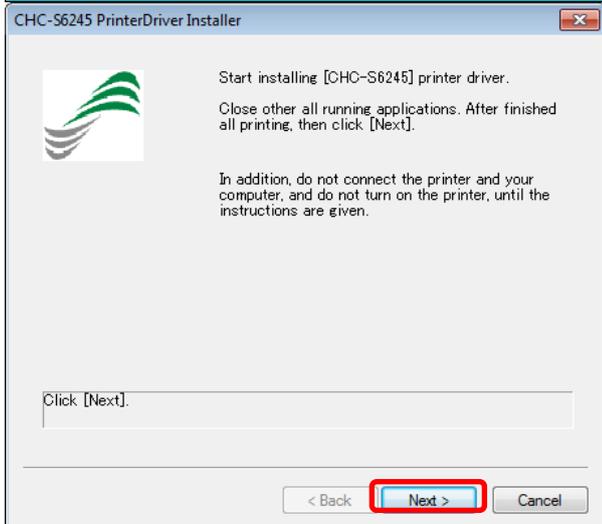
5. Open “Installer” folder, and then double-click “Setup.exe” icon.



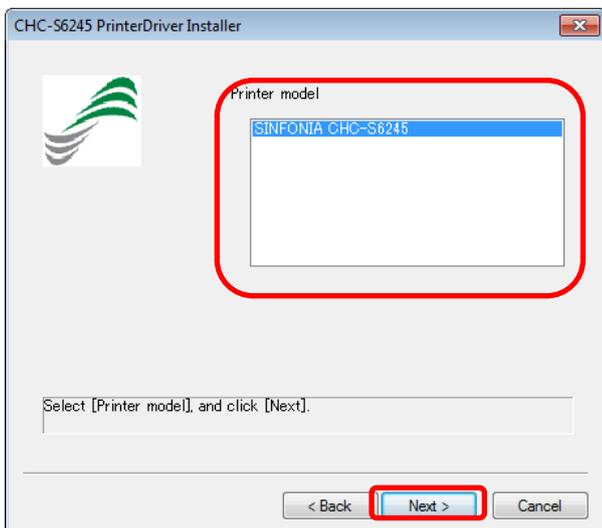
6. Please read the license agreement.

If you agree the license agreement then check “Agree” and click “Next”.

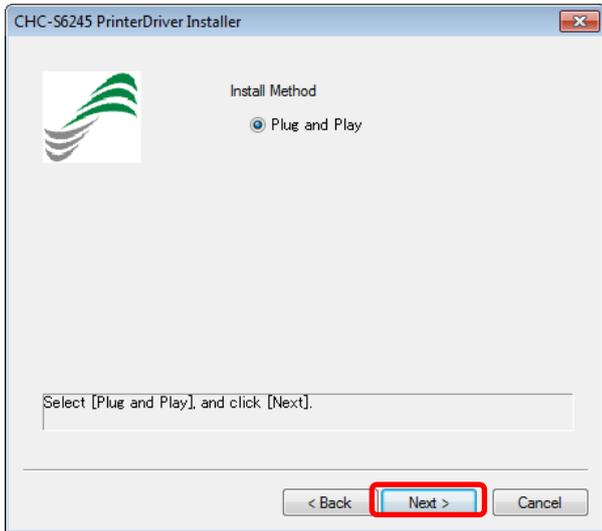
If you disagree the agreement then check “Cancel” and click “Cancel”.



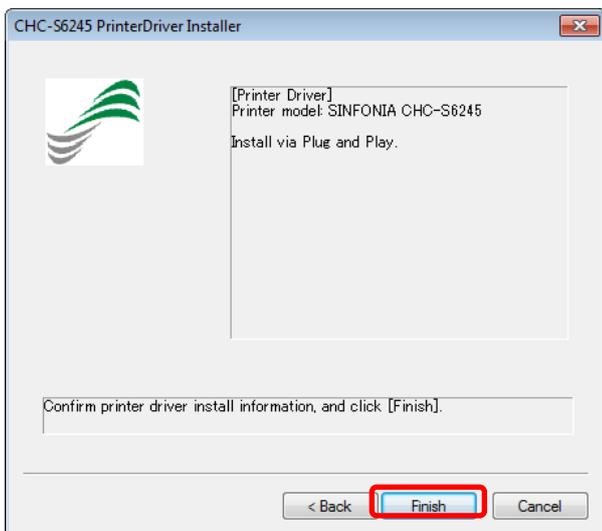
7. Close other all running applications. After finished all printing, then click “Next”.



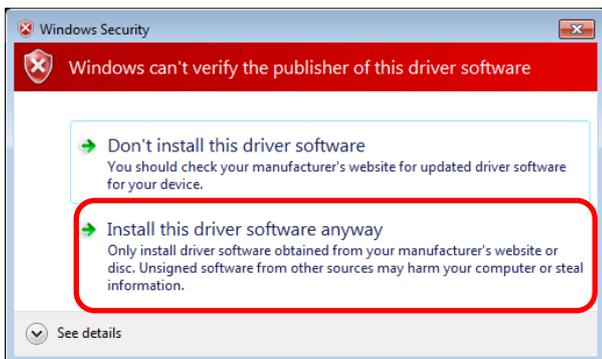
8. Select printer model, and click “Next”.



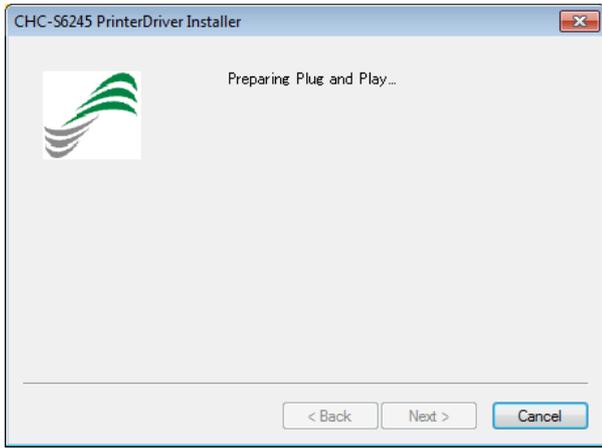
9. Select “Plug and Play”, and click “Next”.



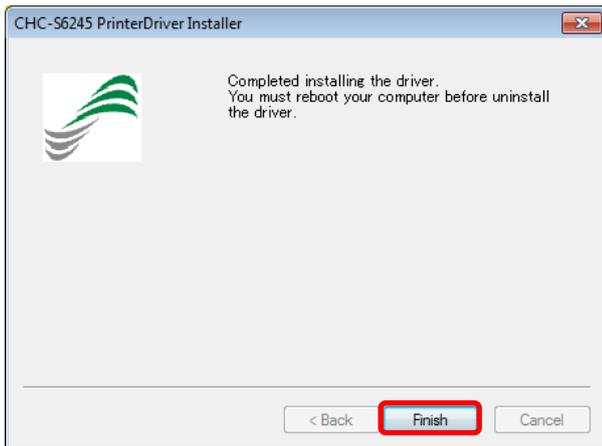
10. Click “Finish”.



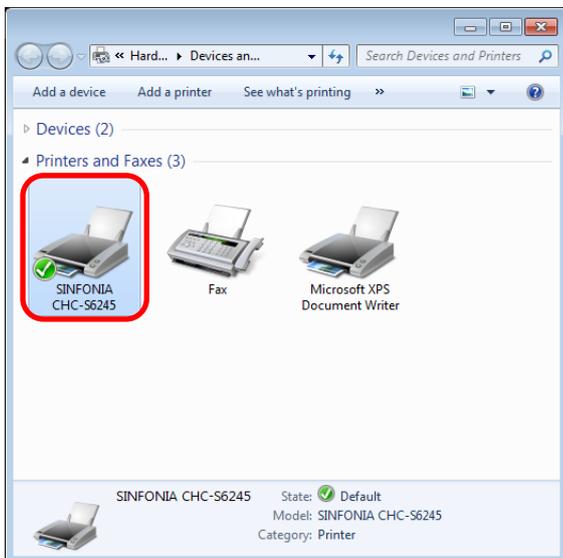
11. Click “Install this driver software anyway”.



12. Installing the driver. Please wait a minute.



13. Click "Finish".

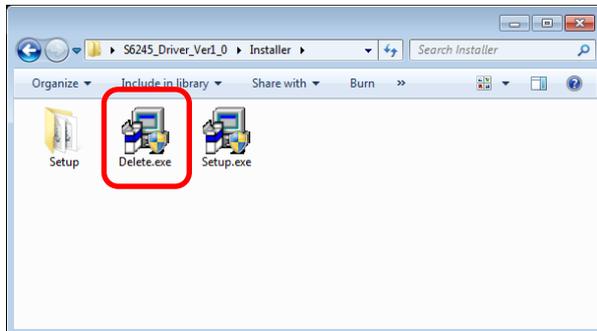


14. The "SINFONIA CHC-S6245" printer icon appears in the "Devices and Printers" window.

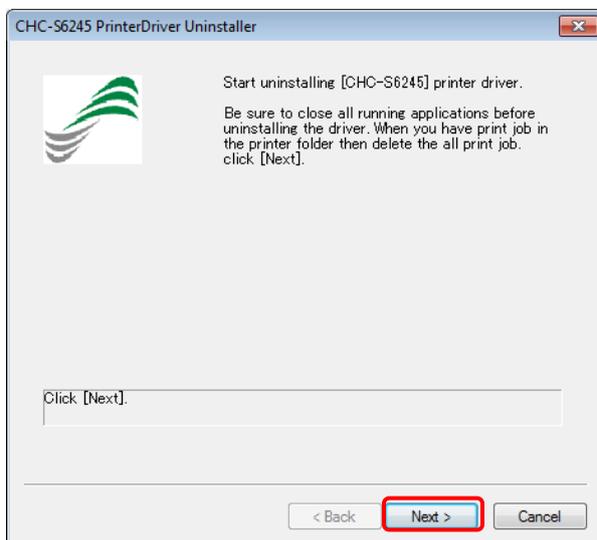
Uninstalling the printer driver for (ex. for Windows 7)

To uninstall the printer driver, follow the procedures below.

1. Unplug the USB cable from your computer.



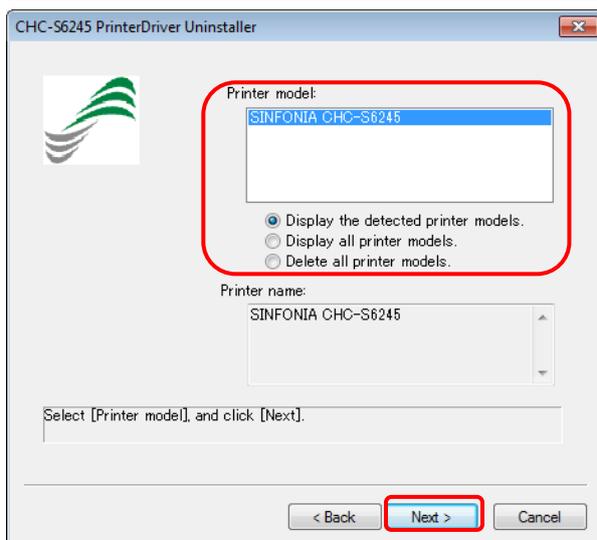
2. Open "Installer" folder, and then double-click "Delete.exe" icon.



3. Close all running applications.

When you have print job in the printer folder then delete the all print job.

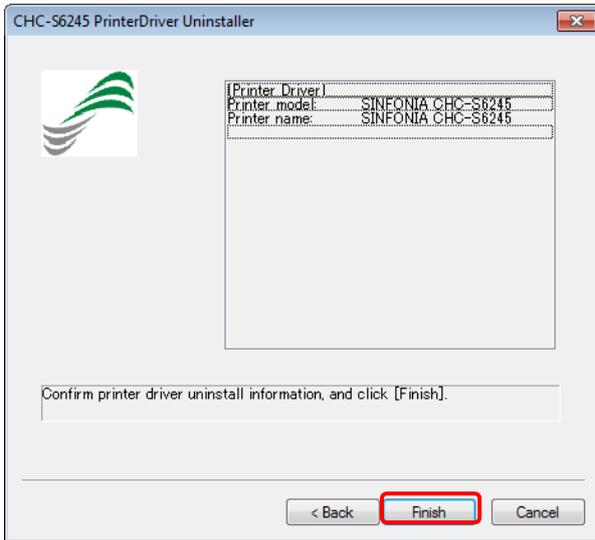
Click "Next."



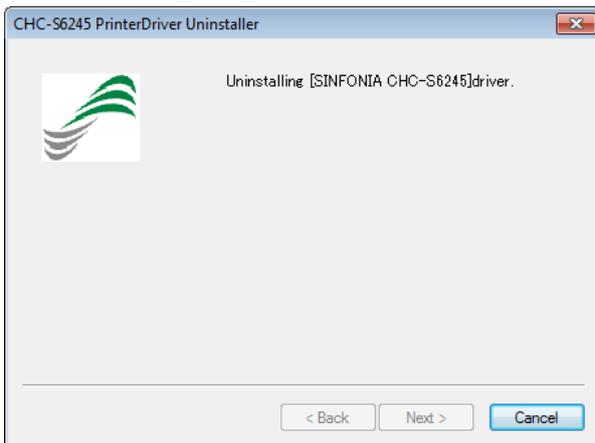
4. Select "Display the detected printer models" radio button, and select Printer model, and click "Next."

NOTES

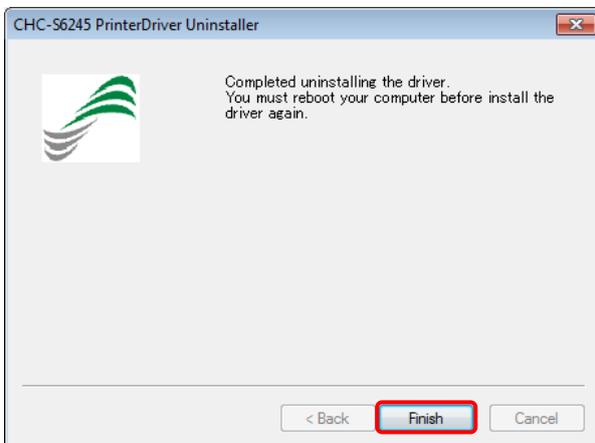
- "Display the detected printer models" Display the installed printer driver in Windows.
- "Display all printer models" Display the all printer models in the installer.
- "Delete all printer models" Delete the all printer models in the installer.



5. Click "Finish."



6. Uninstalling the driver. Please wait a minute.



7. Click "Finish."

8. Reboot your computer.

Printing from application software

You can use the "Print" command of application software to print an image from your computer with CHC-S6245 digital photo printer.

NOTES

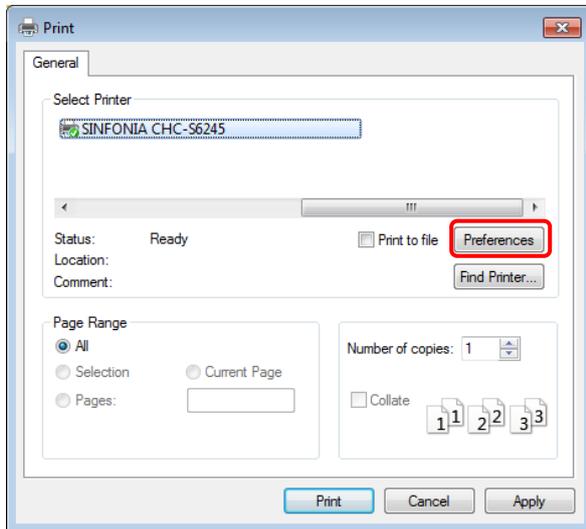
- (1) Before printing, make sure that the printer is properly connected to your computer with a proper USB cable.
- (2) This section describes setting up the driver and printing from the Windows "Paint" program as typical application software.
- (3) The explanation in this section is based on Windows 7.
- (4) The maximum image size for each paper size is as follow.

Paper size selected	Maximum image size in pixel units
8x4inch/20x10cm	2464 x 1236
8x5inch/20x13cm	2464 x 1536
8x6inch/20x15cm	2464 x 1836
8x8inch/20x20cm	2464 x 2436
8x8inch/20x20cm (Split-2UP)	2464 x 2494
8x10inch/20x25cm	2464 x 3036
8x10inch/20x25cm (Split-2UP)	2464 x 3094
8x12inch/20x30cm	2464 x 3636
8x12inch/20x30cm (Split-2UP)	2464 x 3694
8x12inch/20x30cm (Split-3UP)	2464 x 3752

1. Start the application software, and open the image to print.

2. Click "Print" from the menu of the application.

The "Print" dialog box appears.

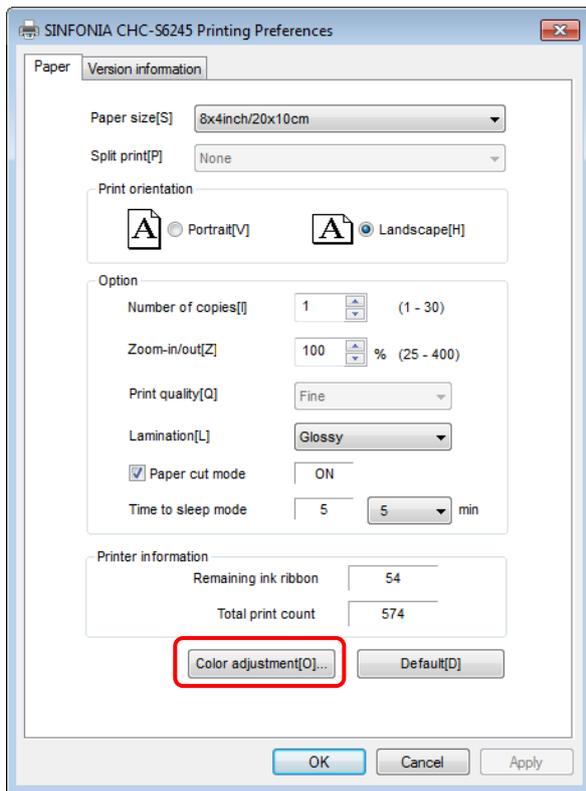


3. Printing Preferences.

Your application software may show a different appearance.

3-1. Select "SINFONIA CHC-S6245"

3-2. Click "Preferences" to show the "SINFONIA CHC-S6245 Properties" dialog box.



3-3. Paper size
Choose a paper size you want to print.

3-4. Split print
When you use the "Split Print" function, select a combination of finished print size.

Currently, drop down list is grayed out, and Split print is chosen automatically according to Paper size.

3-5. Print orientation
Select the Print orientation of an image either from "Portrait" or "Landscape".

3-6. Number of copies
Set the number of copies.
Effective Range: 1 ~ 30 (Default: 1)

3-7. Zoom-in / out
Set percentage at "Zoom-in / out".
The origin for image scaling is on the center.
Effective Range: 25 ~ 400 (Default: 100)

3-8. Print quality
Currently, you can not choose print quality, and gray out the drop down list.

3-9. Lamination
Choose a lamination of prints from "Glossy" of "Matte" or "OP Skip."

3-10. Paper cut mode
Set the "Paper cut mode" function to your CHC-S6245 printer.
Check on: "Paper cut mode: on".
Check off: "Paper cut mode: off".

3-11. Time to sleep mode

Set the "Time to sleep mode" function to your CHC-S6245 printer.

Possible setting value are as follows. 5, 15, 30, 60, 120, 240 min

If the printer is not supported the "Time to sleep mode", "Time to sleep mode" will be grayed out.

3-12. Remaining ink ribbon

This item shows approximate number of available prints with the loaded ink ribbon.

3-13. Total print count

This item shows total print counts stored in the internal memory of the printer.

NOTES

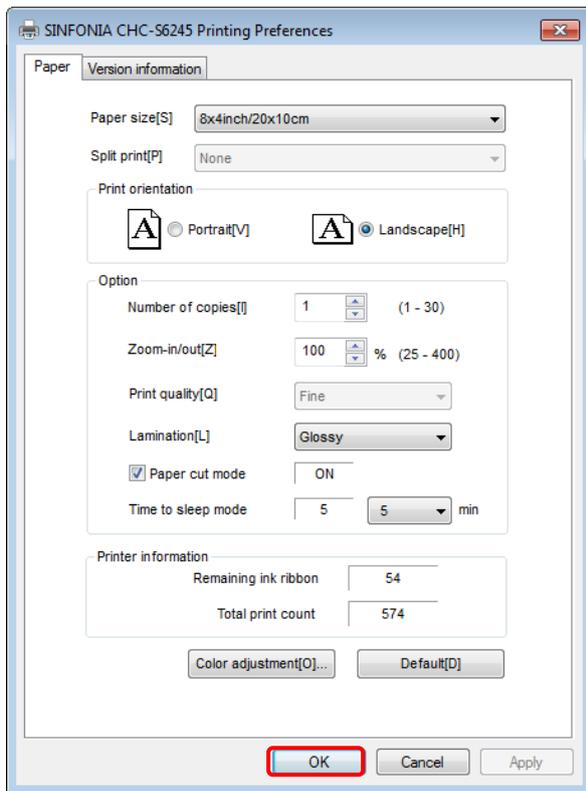
The actual number of prints may vary from the figure displayed depending on how the successive printing is performed.



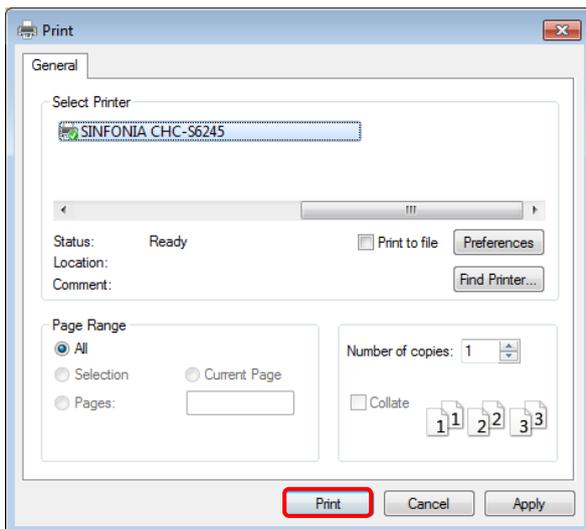
3-14. Color adjustment

Clicking this button shows the "Color adjustment" window to adjust the prints.

See the section of "Color adjustment" in this document.



3-15. Click "OK" to return to the "Print" dialog box.



4. Click "Print" on the "Print" dialog box to start printing.

Click "Cancel" to cancel.

To cancel printing

- When the application software shows the Print dialog box, click "Cancel".
The print job will be canceled and the dialog box will be closed.
- When the print job has already entered into the print queue,
 1. Select "Settings" from the Windows Start menu, and then click "Printers and Faxes".
 2. Double-click on the "SINFONIA CHC-S6245" icon.
The "SINFONIA CHC-S6245" window is displayed. The documents in the print queue are listed in the window.
 3. Click the document you want to cancel.
 4. Click "Cancel" in the "Document" menu.
The document is removed from the list and the print job is canceled.
For the details, refer to the Windows documentation.

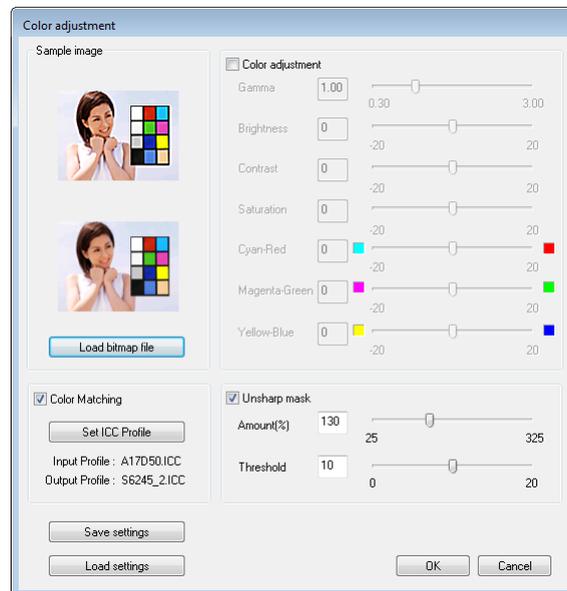
NOTES

If printing has already started, do not cancel printing.
Please wait until the printing is completed.

Color adjustment

Color adjustment window

You can select various kinds of printing options for color adjustment in the "Color adjustment" window.



Sample image

The upper image will preview the effects of color adjustments.
The lower image represents the original sample image.

NOTES

The preview image shows the approximate effects of color adjustment and may not represent the actual printing result.

Load bitmap file button

Clicking this button displays open dialog window to load a bitmap file to replace the default sample image.

Acceptable bitmap file: 24-bit full color, 480(H) x 680(W) pixels or less.

Color Matching checkbox

Checking this checkbox enables the color matching process for input images.

Set ICC Profile button

Clicking this button displays the "Color Matching" window to allow you to define how the color matching applies to an input image.

Input ICC Profile:

The input ICC profile name is displayed to be used for the color matching process.

Output ICC Profile:

The output ICC profile name is displayed to be used for the color matching process.

Save settings button

Clicking this button displays the open dialog window to save the settings of color adjustment to an external file.

Load settings button

Clicking this button displays the open dialog window to load the settings of color adjustment from an external file.

Color adjustment checkbox

Checking this checkbox enables every settings of "Color adjustment" option.

Gamma editbox / slider bar

This option adjusts the midtone of the print image. Drag the slider bar to the right to decrease the lightness of the midtone or to the left to increase it. You can also enter a value directly in the editbox.

Adjustable range: 0.30 ~ 3.00 (Default: 1.00)

Brightness editbox / slider bar

This option adjusts the brightness of the print image. Drag the slider bar to the right to increase the brightness or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

Contrast editbox / slider bar

This option adjusts the contrast of the print image. Drag the slider bar to the right to increase the contrast or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

Saturation editbox / slider bar

This option adjusts the saturation of the print image. Drag the slider bar to the right to increase the saturation or to the left to decrease it. You can also enter a value directly in the editbox.

Adjustable range: -20 ~ 20 (Default: 0)

Cyan – Red editbox / slider bar

This option adjusts the color balance between Cyan and Red elements. The higher you set the value, the more the Red element increase while the Cyan element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

Magenta – Green editbox / slider bar

This option adjusts the color balance between Magenta and Green elements. The higher you set the value, the more the Green element increase while the Magenta element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

Yellow – Blue editbox / slider bar

This option adjusts the color balance between Yellow and Blue elements. The higher you set the value, the more the Blue element increase while the Yellow element decrease – and vice versa.

Adjustable range: -20 ~ 20 (Default: 0)

Unsharp mask checkbox

Checking this checkbox enables every settings of "Unsharp mask" option.

Amount [%] editbox / slider bar

This option adjusts the magnitude of contrast at the edges of the print image. The higher you set the value, the sharper the print image becomes.

Adjustable range: 25 ~ 325 (Default: 130)

Threshold editbox / slider bar

This option sets threshold against the brightness change among the pixels contained in the image to determine if the unsharp mask is applied. The lower you set the value, the sharper the print image becomes.

Adjustable range: 0 ~ 20 (Default: 10)

OK button

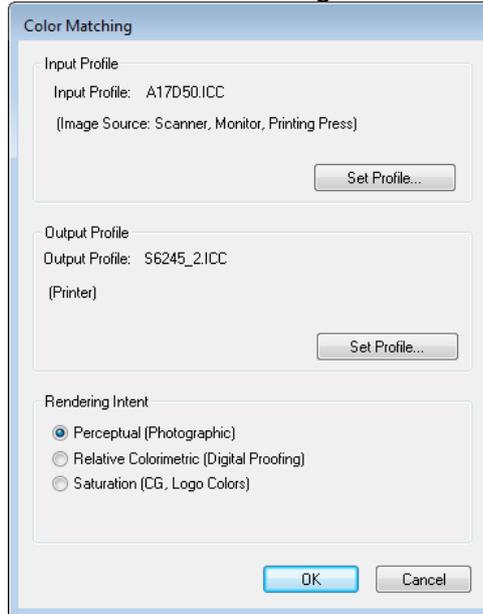
Clicking this button fixes the settings in the "Color adjustment" window, and then close the window.

Cancel button

Clicking this button discards the settings in the "Color adjustment" window, and then close the window.

Color Matching window

You can choose ICC profiles and a Rendering Intent.



Input Profile:

Current input ICC profile name in use is displayed.

Output Profile:

Current output ICC profile name in use is displayed.

Set Profile... button

Clicking this button allows you to load an input ICC profile or an output ICC profile respectively.

At the "Input Profile", load an ICC profile for the input device by which the current image was created.

At the "Output Profile", load an ICC profile (S6245_2.ICC) for the printer.

Rendering Intent

You can choose Rendering Intent from the three options as shown in the table below.

Rendering Intent	Features
Perceptual (Photographic)	Maps color smoothly, preserving relationships between similar colors, and generally provides the best reproduction of photographs.
Relative Colorimetric (Digital Proofing)	Represents any remaining out of gamut colors by the closest match and is generally a good choice for proof print.
Saturation (CG, Logo Colors)	Prints punchy business charts and graphs, preserving the saturation or brightness of colors.

OK button

Clicking this button fixes the settings in the "Color Matching" window, and then closes the window.

Cancel button

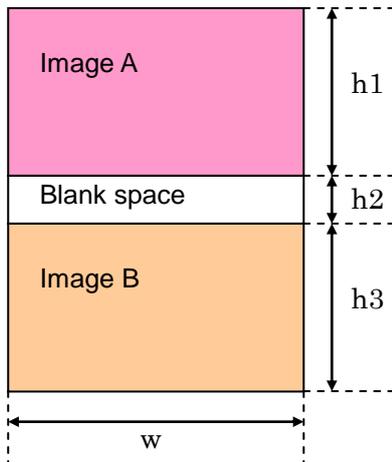
Clicking this button discards the settings in the "Color Matching" window, and then closes the window.

Split Print

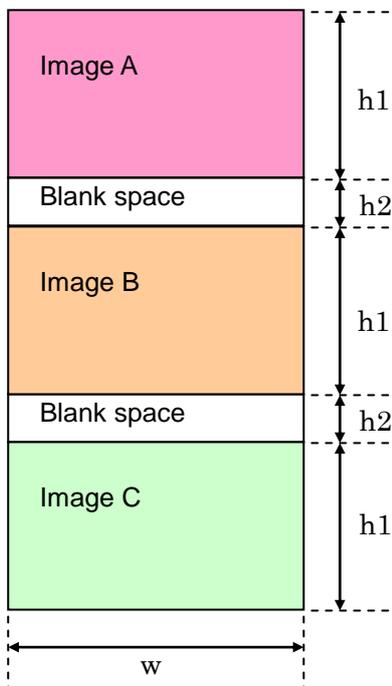
CHC-S6245 Printer Driver can perform Split Print in combination with 2 or 3 images, which are combined by certain application software. This method saves print job time, and ink ribbon.

1. Combine 2 or 3 images with blank space by your application software.

The dimensions of whole and each image and blank space are shown in the table below.



Combination of image	Image A w x h1 [Pixel]	Blank space w x h2 [Pixel]	Image B w x h3 [Pixel]
8x4 inch & 8x4 inch	2464 x 1236	2464 x 10	2464 x 1236
8x5 inch & 8x5 inch	2464 x 1536	2464 x 10	2464 x 1536
8x6 inch & 8x6 inch	2464 x 1836	2464 x 10	2464 x 1836



Combination of image	Image A,B,C w x h1 [Pixel]	Blank space w x h2 [Pixel]
8 x 4 inch & 8 x 4 inch & 8 x 4 inch	2464 x 1236	2464 x 10

2. The proper settings in the Paper-tab sheet of the "SHINFONIA CHC-S6245 Properties" dialog box are as follows.

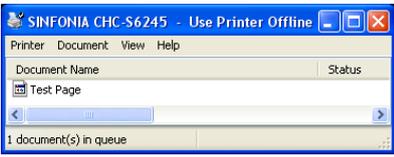
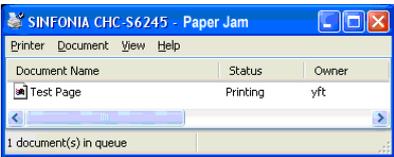
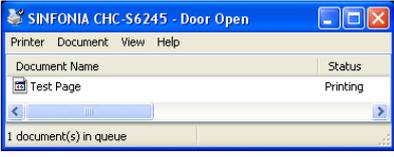
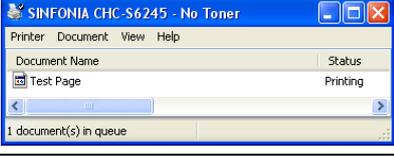
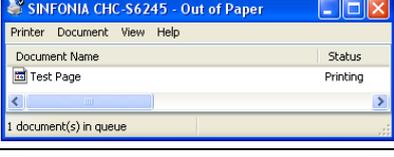
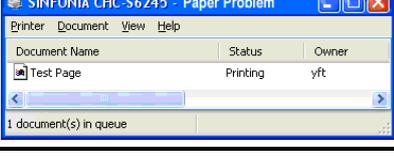
Combination of image	Print size	Split print	Print orientation	Zoom-in/out
8x4 inch & 8x4 inch	8x8inch/20x10cm (Split-2UP)	8 x 4 & 8 x 4 [inch]	Portrait	100 %
8x5 inch & 8x5 inch	8x10inch/20x25cm (Split-2UP)	8 x 5 & 8 x 5 [inch]		
8x6 inch & 8x6 inch	8 x 12inch/20x30cm (Split-2UP)	8 x 6 & 8 x 6 [inch]		
8 x 4 inch & 8 x 4 inch & 8 x 4 inch	8x12inch/20x30cm (Split-3UP)	8 x 4 & 8 x 4 & 8 x 4 [inch]		

3. The image B and A or C, B and A will be printed, cut and come out from the printer in this order.

Troubleshooting

When the printer driver displays a Printer Status on the Printer Folder, refer to the following table below for its cause and correction.

Printer Folder

Printer Folder	Possible Causes	Possible Solutions
	The printer is turned off.	Make sure the printer is turned on.
	There may be a problem with the connection of the printer.	Make sure that the printer is properly connected to your computer with a proper USB cable.
	A hardware malfunction may have occurred in the printer.	Consult our support center.
	A paper jam has occurred.	Remove the jammed paper in accordance with the user manual of the printer.
	The printer cover is open.	Close the printer cover.
	The ink ribbon has run out or is not loaded.	Remove the used ink ribbon and load a new one.
	The paper roll has run out or is not loaded.	Load a new one.
	The size of ink ribbon loaded in the printer does not match the paper size specified in the current print job.	Load the correct size of ink ribbon to the printer or cancel the print job and print again with the correct paper size.

Color adjustment window

Error Messages	Possible Causes	Possible Solutions
Cannot use this profile on current ribbon and image mode.	Incorrect ICC profile(s) are specified for the current settings.	Check if the ICC profile(s) are compatible with the current settings.
Cannot find right ICC Profile.	The selected ICC profile is not found; or the ICC Profile has collapsed.	Check if the ICC Profile exists and is not broken.
Cannot load bitmap file.	The selected bitmap file is not supported.	Load an acceptable bitmap file that is in 24-bit full color and up to 480 pixels in height and 680 pixels in width.