



For Adobe Photoshop

PICTROGRAPHY 3500

Export Plug-in Module / User's Manual

M W
Macintosh Windows

PICTROGRAPHY 3500
Export Plug-in Module
User's Manual

[Notice]

- This manual was written based on the specification of the PICTROGRAPHY3500 as of the date of October 1, 2002.
- It is forbidden to copy or reproduce this manual, in whole or in part, without written permission of Fuji Photo Film Co., Ltd.
- The contents of this manual are subjects to change without notice.
- If there are any points in this manual which are unclear, or which do not seem correct, please contact your local dealer.
- Fuji Photo Film Co., Ltd. makes no representation or warranties with respect to the contents hereof and disclaims any implied warranties of merchantability or fitness for any particular purpose.

[Trademarks]

- Adobe and Adobe Photoshop are trademarks of Adobe Systems Incorporated.
- Apple, Mac and Macintosh are registered trademarks of Apple Computer, Inc. of the United States of America. Power Macintosh, Power Mac, Mac OS and Mac OS X are trademarks of Apple Computer, Inc. of the United States of America.
- Microsoft, Windows, and WindowsNT are registered trademarks of Microsoft Corporation of the United States of America.
- The official name of Windows is Microsoft Windows Operating System.
- All other company names and product names used in this manual are the trademarks and registered trademarks of their respective owners.

By this notice, all other company names, trademarks and registered trademarks used in this manual, in addition to those detailed above, are recognized and respected in accordance with all legal requirements.

Preface _____

Chapter 1: Installation _____

Chapter 2: Operating Instructions _____

Chapter 3: Error Messages _____

Chapter 4: Reference _____

Table of Contents

Preface

0-1: Overview	0-2
0-2: System Requirements	0-2

Chapter 1: Installation

1-1: Hardware Set-up	1-1
1-2: PG 3500 Plug-in Module Installation	1-1
1-3: Profile Installation	1-7

Chapter 2: Operating Instructions

2-1: Graphics Image Data Preparation	2-1
2-2: Starting the PG 3500 Plug-in	2-2
2-3: Default Start-up Settings for the PG 3500 Plug-in	2-4
2-4: Template	2-5
2-5: Paper Orientation	2-7
2-6: Resolution	2-8
2-7: Brightness	2-8
2-8: Contrast	2-8
2-9: Color Balance (R, G, B)	2-8
2-10: Centering	2-9
2-11: Borderless	2-9
2-12: Paper Size	2-9
2-13: ColorSync / ICM	2-10
2-14: Profile Settings	2-10
2-15: Color Matching	2-12
2-16: Gray Balance	2-13
2-17: LUT	2-13
2-18: LUT Settings	2-14
2-19: Number of Prints	2-18
2-20: Startup Settings	2-18
2-21: Repeat Copy	2-19
2-22: Save	2-20
2-23: Load	2-21
2-24: Cancel	2-22
2-25: Print	2-22

Chapter 3: Error Messages

3-1: Warning Message Summary Chart	3-1
3-2: Error Message Summary Chart	3-2

Chapter 4: Reference

4-1: Printable Graphics Image Modes	4-1
4-2: Graphics Image Data Size	4-1
4-3: Paper Size	4-2
4-4: Multi Connection of the PICTROGRAPHY 3500	4-3

Preface

The PICTROGRAPHY 3500 Export Plug-in Module is a print export plug-in for Adobe Photoshop which will allow the user to print full-color images on a PICTROGRAPHY 3500 Full-Color Digital Printer. This package contains both the Power Macintosh and Windows 95, 98, NT, 2000, XP versions of this software, which can be run respectively on an Apple Power Macintosh, and an Intel or compatible CPU-based PC running Microsoft Windows 95, 98, 2000, NT or XP.

This software functions as a plug-in module for Adobe Photoshop; by using it, the user can take advantage of the rich editing options available in Adobe Photoshop prior to printing a graphics image. Also, by using the Graphical User Interfaces (GUI) in Mac OS or in Microsoft Windows OS, anyone can easily print an image. This manual begins with a Product Summary, and describes Required Hardware Set-up. Chapter 1 covers Installation, Chapter 2 provides Operating Instructions, Chapter 3 describes Error Messages, and Chapter 4 is a Reference section detailing the limitations of this software for printing, including image sizes and the like. In order to properly operate the PICTROGRAPHY 3500 Export Plug-in Module, please be sure to read this manual thoroughly before usage.

This manual was written for users who already possess a working knowledge of how to use the Macintosh, or Windows Operating Systems, and also Adobe Photoshop. For those who do not have such knowledge, please consult the appropriate training manual systems (Macintosh Training Guide, Windows OS Manual, and Adobe Photoshop Manual) and learn how to operate your respective systems before attempting to use this manual and product.

0-1: Overview

The PICTROGRAPHY 3500 Export Plug-in Module (hereinafter referred to as the PG 3500 Plug-in) is an Adobe Photoshop Export Plug-in Module to allow Photoshop users to print using the PICTROGRAPHY 3500 (the Macintosh version of the PG 3500 Plug-in is exclusively for the Power Macintosh, and the Windows version for 32-bit Windows systems only). The interface used between the computer and the PICTROGRAPHY 3500 is SCSI.

0-2: System Requirements

[Hardware]

1. Computer

- [Macintosh Version]: Power Macintosh Series computer. (For details, please refer to the "ReadMe" file)
The PG 3500 Plug-in is a Power Macintosh native module. This software cannot be used on any Macintosh computer except a Power Macintosh. For Mac OS X user, please use the Mac OS X native module.
- [Windows Version]: A system capable of operating the Windows OS. (For details, please refer to the "Readme.txt" file)
The PG 3500 Plug-in is designed for use exclusively with 32-bit Systems. It will not function with the Windows 3.1 system.
- Memory: 128MB. (more is recommended)
- 24-bit color video card and display resolution 1024 x 768 or higher.
- Hard Disk: When running in the full-color high resolution mode, Adobe Photoshop may use hard disk space for virtual memory depending on the amount of RAM you have installed. Make sure your hard disk has sufficient free space in this case.

2. SCSI Interface Board

- [Macintosh Version]: The standard Power Macintosh SCSI interface or Adaptec SCSI interfaces were used. (For details, please refer to the "ReadMe" file)
- [Windows Version]: Adaptec SCSI interface is used. (For details, please refer to the "Readme.txt" file)

3. SCSI Cable

When the PICTROGRAPHY 3500 is connected to a computer or other SCSI peripherals, make sure the SCSI cables are properly connected.

4. SCSI Terminator

A SCSI terminator is included with the PICTROGRAPHY 3500 SCSI interface. The terminator must be installed whenever the PICTROGRAPHY 3500 is connected to the end of a SCSI bus.

5. PICTROGRAPHY 3500

[Software]

1. Operating System

- [Macintosh Version]: Requires either Mac OS 7.6.1, Mac OS X 10.1.3 or higher. (For details on OS versions supported, please refer to the "ReadMe" file)
- ColorSync Ver.2.5 or higher.
(This is necessary only when using a Macintosh system; see the "ReadMe" file for further details)
- [Windows Version]: Microsoft Windows 95, 98, 2000, XP, WindowsNT 4.0 Service Pack 5 or higher. (For details on OS versions supported, please refer to the "Readme.txt" file)
- ASPI Manager Ver.4.0.1 or higher.
(This is necessary only when using a Windows system; see the "Readme.txt" file for further details)
- ICM Ver.2.0 or higher.
(This is necessary only when using a Windows 98, 2000, XP system; see the "Readme.txt" file for further details)

2. Application Software

In order to use the PG 3500 Plug-in module, you need to have Adobe Photoshop (version 5.0 or higher) already installed on your hard disk. (For details on Photoshop versions supported, please refer to the README files included on each PG 3500 Plug-in program folder)



Notice: A number of different plug-in modules for Adobe Photoshop are sold by different vendors. Fuji Photo Film makes no guarantees about the compatibility of this product with any product other than Adobe Photoshop.

Chapter 1: Installation

This chapter describes how to install the PG 3500 Plug-in to the hard disk of the computer.

1-1: Hardware Set-up

[Set-up procedure]

1. Begin with power turned off

Make sure that the power to your computer, the PICTROGRAPHY 3500, and any other peripheral devices is turned off.

2. Set the SCSI ID

Check the SCSI ID number to verify that it doesn't duplicate the ID numbers of any other SCSI device. Change the ID number if necessary.



Notice: A full description of how to change the SCSI ID number is given in the PICTROGRAPHY 3500 user's manual.

3. Connect the PICTROGRAPHY 3500 to the computer

Connect the PICTROGRAPHY 3500 via the SCSI cable to the computer. Attach the terminator to the device at the end of the SCSI chain.

4. Turn the PICTROGRAPHY 3500 and the computer on

First turn on the power to the PICTROGRAPHY 3500. If other SCSI devices are also attached, they should also be turned on before starting up your computer.



Notice: **[When using a Macintosh]**

Make sure that your Macintosh goes through its usual start-up process. If it fails to start-up, immediately turn all devices off, check the SCSI cable connections and ID numbers.

[When using a Windows system]

Make sure that your Windows system goes through its usual start-up process. If it fails to start-up, immediately turn all device off, check the SCSI cable connections and ID numbers. If the start-up disk is an IDE (Internal Hard Drive), the system will boot, but any SCSI devices with conflicting ID numbers will not be recognized by the system, so double-check to be sure.

1-2: PG 3500 Plug-in Module Installation

[Before you install the software]

1. Check package contents

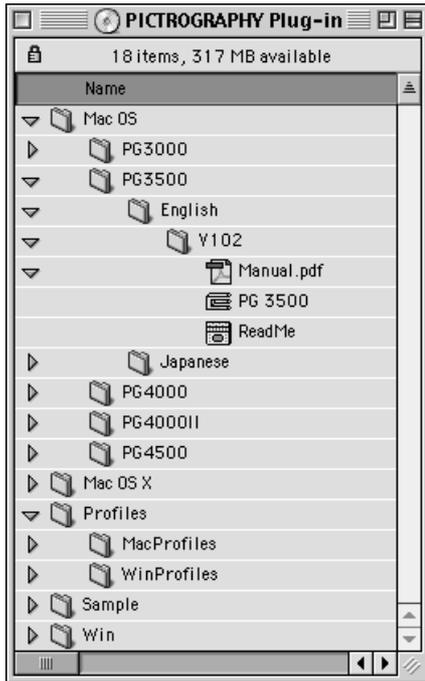
Make sure that the package contains the following items:

- One CD-ROM containing the Photoshop Plug-in for Power Macintosh & Windows 95, 98, NT, 2000, XP version.
- User's manual (this text).

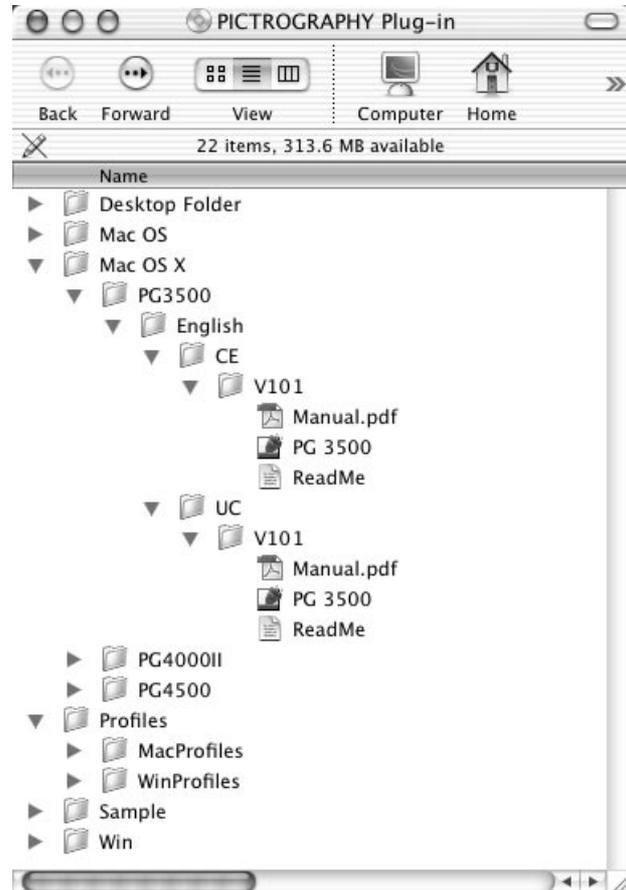
2. Check the contents of the CD-ROM

Make sure that the CD-ROM contains the following files:

[Macintosh Version]



[For Mac OS]



[For Mac OS X]

- PG 3500

This is the PICTROGRAPHY 3500 export plug-in module.

- ReadMe

The “ReadMe” file contains changes and additions that have been made since this manual was printed. It should be consulted for information about the newest Macintosh models, and recent versions of the Mac OS and Adobe Photoshop. Read this file before you install the software.

- Manual.pdf

The “Manual.pdf” file contain the same user’s manual information as this book does.

- MacProfiles folder

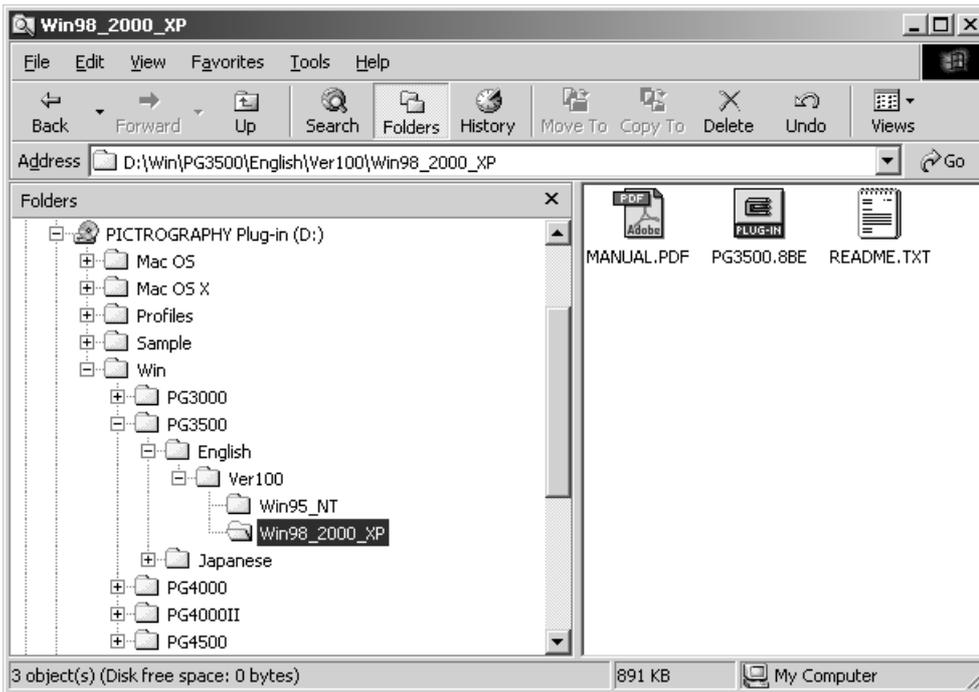
This folder contains necessary the ICC profile for use with ColorSync process.



Notice: In order to open the “ReadMe” file, you will need to have a word processing application such as “TeachText” or “SimpleText”. And also, in order to open the “Manual.pdf” file, you will need to have an Adobe Acrobat Reader application.



Reference: The Adobe Acrobat Reader is included in your Photoshop application CD-ROM.

[Windows Version]

- **Win95_NT folder's PG3500.8BE**
This is the PICTROGRAPHY 3500 export plug-in module. This module is used for the Windows 95 or WindowsNT system.
- **Win98_2000_XP folder's PG3500.8BE**
This is the PICTROGRAPHY 3500 export plug-in module. This module is used for the Windows 98, Windows 2000 or Windows XP system.
- **README.TXT**
The "README.TXT" file contains changes and additions that have been made since this manual was printed. It should be consulted for information about the Windows PC and SCSI board models, and recent versions of the Windows system and Adobe Photoshop. Read this file before you install the software.
- **MANUAL.PDF**
The "Manual.pdf" file contain the same user's manual information as this book does.
- **WinProfiles folder**
This folder contains necessary the ICC profile for use with ICM process.



Notice: In order to open the "README.TXT" file, you will need to have a word processing application such as "Notepad" or "WordPad". And also, in order to open the "MANUAL.PDF" file, you will need to have an Adobe Acrobat Reader application.

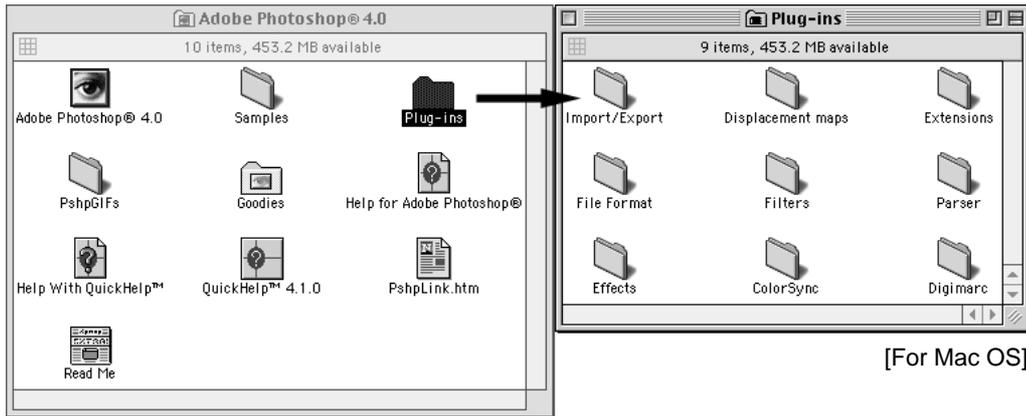


Reference: The Adobe Acrobat Reader is included in your Photoshop application CD-ROM.

3. Install the PG 3500 Plug-in module

[Macintosh Version]

- 1) Make sure that Adobe Photoshop has already been successfully installed on your hard disk. If Adobe Photoshop has not been installed, stop the PG 3500 installation procedure and install Photoshop first. (Consult the Adobe Photoshop manual for details.)
- 2) Locate the Adobe Photoshop "Plug-ins" folder on your hard disk. Drag and drop the PG 3500 Plug-in file from the CD-ROM to the "Import/Export" folder within the Photoshop "Plug-ins" folder.

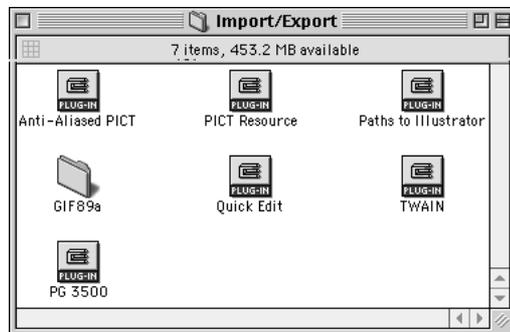


[For Mac OS]



[For Mac OS X]

If the installation is successful, the contents of the folder should appear as shown below:



[For Mac OS]



[For Mac OS X]



Reference: When Adobe Photoshop starts up, it checks the "Plug-ins" folder and loads any plug-in modules found. The modules will appear in the "File" menu.

[Windows Version]

1) Prior to installing the PG 3500 Plug-in, ensure that the following set-up procedures have been performed on your Windows system:

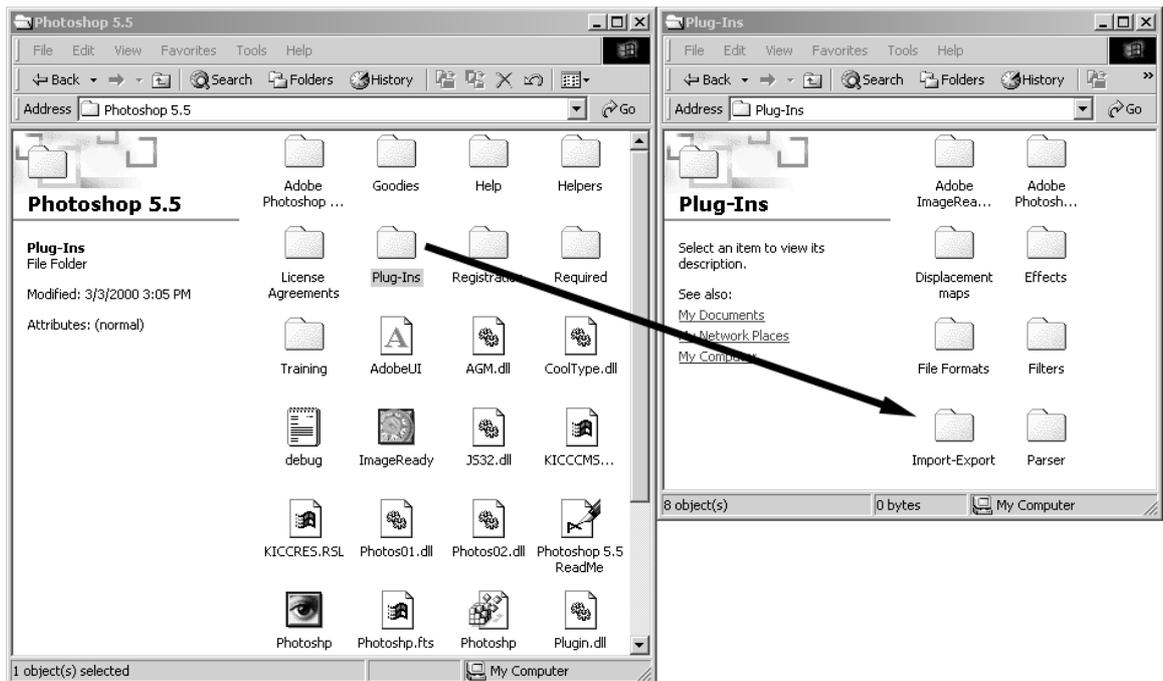
- Check that the ASPI Manager is installed on your Windows system.



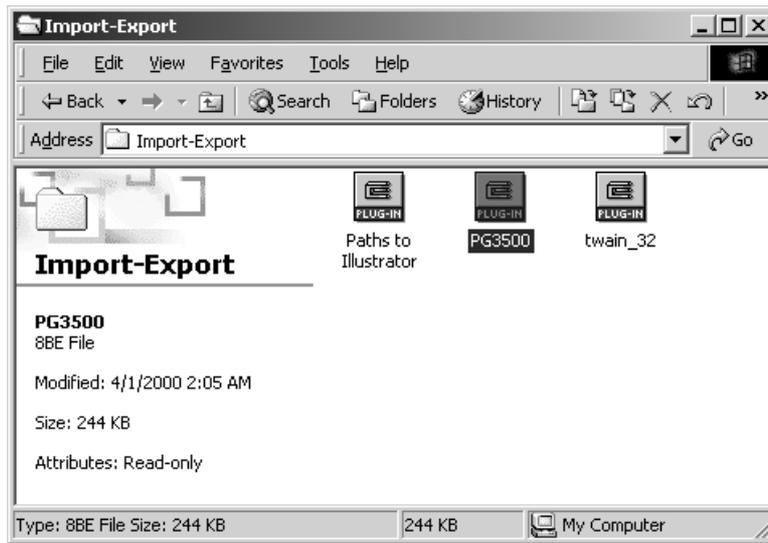
Notice: In Windows 95,98, the ASPI Manager is already installed as part of the system; however, please note that they are not installed in Windows 2000, NT, XP. If the ASPI Manager is not installed, the PG 3500 Plug-in will not operate. (For information on installing the ASPI Manager, please consult the manual included with your SCSI board.)

2) Make sure that Adobe Photoshop has already been successfully installed on your hard disk. If Adobe Photoshop has not been installed, stop the PG 3500 installation procedure and install Photoshop first. (Consult the Adobe Photoshop manual for details.)

3) Locate the Adobe Photoshop “Plug-Ins” folder on your hard disk. Drag and drop the PG 3500 Plug-in file from the CD-ROM to the “Import-Export” folder within the Photoshop “Plug-Ins” folder.



If the installation is successful, the contents of the folder should appear as shown below:



Notice: Depends on the version of Adobe Photoshop, the folder name may be different, please be aware.



Reference: When Adobe Photoshop starts up, it checks the "Plug-ins" folder and loads any plug-in modules found. The modules will appear in the "File" menu.

1-3: Profile Installation

[Macintosh Version]

When using ColorSync process with output, require the Pictography 3500's ICC profile must be copy to the proper file folder. And depends on the using a version of Mac OS, the folder's name or the folder's location maybe different.

- Mac OS version 8.1 or before



Drag-and-drop copy the ICC profile from the CD-ROM to the "ColorSync profiles" folder.

- Mac OS version 8.5 or later



Drag-and-drop copy the ICC profile from the CD-ROM to the "ColorSync profiles" folder.

- Mac OS X version



Drag-and-drop copy the ICC profile from the CD-ROM to the "Profiles" folder.



Notice: The PG3500 Plug-in will only work the "ColorSync" process with ColorSync version 2.5 or higher.

[Windows Version]

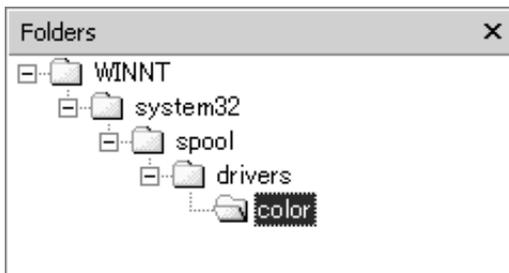
When using ICM process with output, require the Pictography 3500's ICC profile must be copy to the proper file folder. And depends on the using a Windows system, the folder's name or the folder's location maybe different.

- For Windows 98



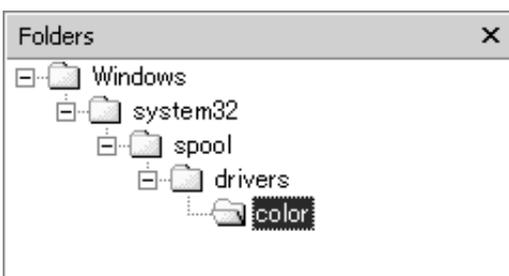
Drag-and-drop copy the ICC profile from the CD-ROM to the "COLOR" folder.

- For Windows 2000



Drag-and-drop copy the ICC profile from the CD-ROM to the "color" folder.

- For Windows XP



Drag-and-drop copy the ICC profile from the CD-ROM to the "color" folder.

Next, install the ICC profile after copying it. By hold down the right mouse button the context menu will popup, select "Install Profile" menu item to install the profile.



Notice: The PG 3500 Plug-in for Windows 95 and WindowsNT will not support the "ICM" process, please be aware.

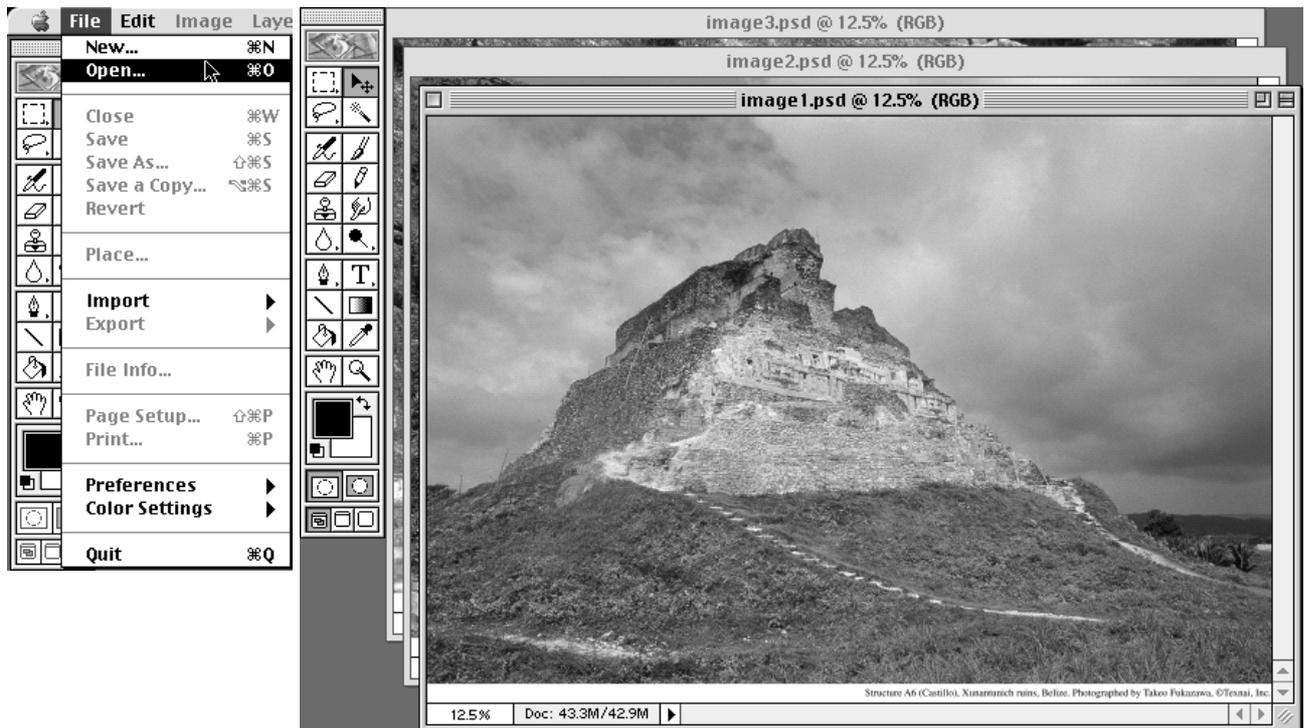
Chapter 2: Operating Instructions

This chapter provides a step-by-step description of the basic PG 3500 Plug-in operations. Before printing in an image, make sure that the following operations are working correctly:

- PICTROGRAPHY 3500 set-up and operation.
- Computer System set-up and operation.
- Adobe Photoshop has been successfully installed on the hard disk.
- The PG 3500 Plug-in has been successfully installed on the hard disk.

2-1: Graphics Image Data Preparation

Open a file to display the graphics data. If you have multiples of graphic files open, the file to be output should be opened at the top of all other windows.



[This figure shows the Mac OS version.]



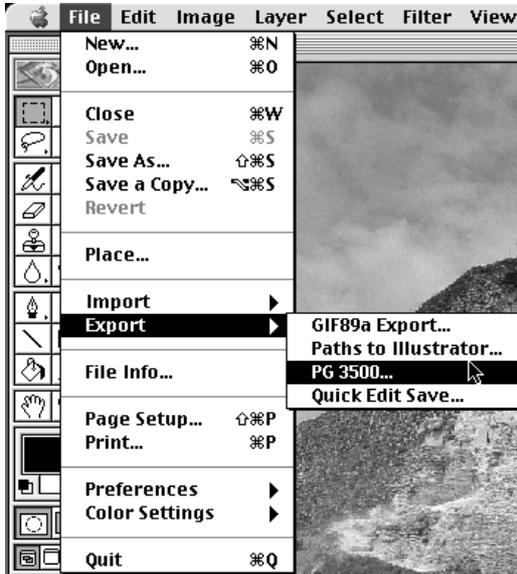
Notice: The PG 3500 Plug-in can only export images that have been created/converted to RGB mode. If you have an image which is in another mode, please convert it to RGB mode prior to export.



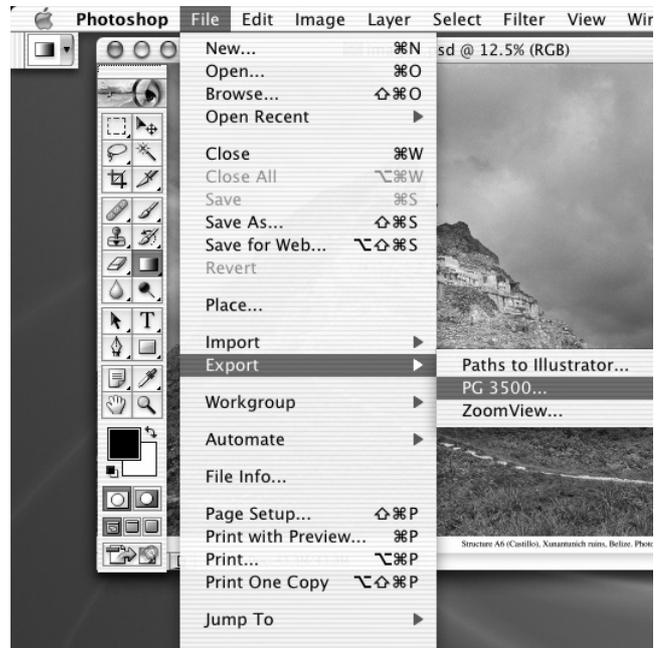
Reference: Only one graphics image can be exported at a time. If you have to export multiple images, please export them from Photoshop one at a time, once the previous image has been fully output.

2-2: Starting the PG 3500 Plug-in

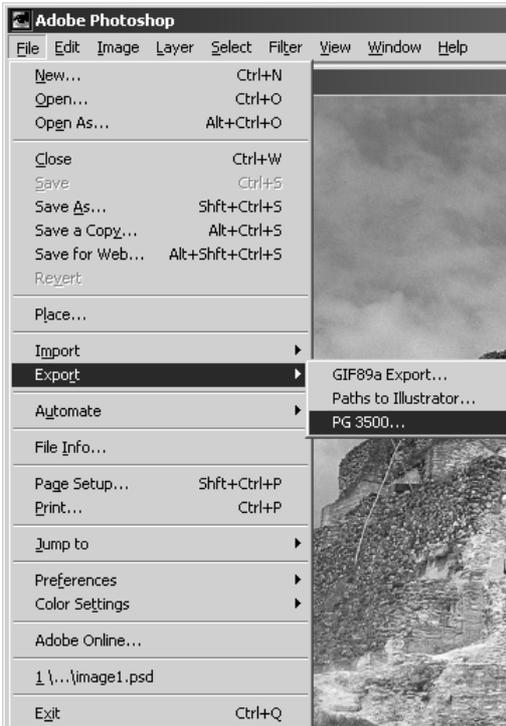
In order to print, select "PG 3500..." from the "Export" item in the "File" menu.



[For Mac OS]



[For Mac OS X]



[For Windows]

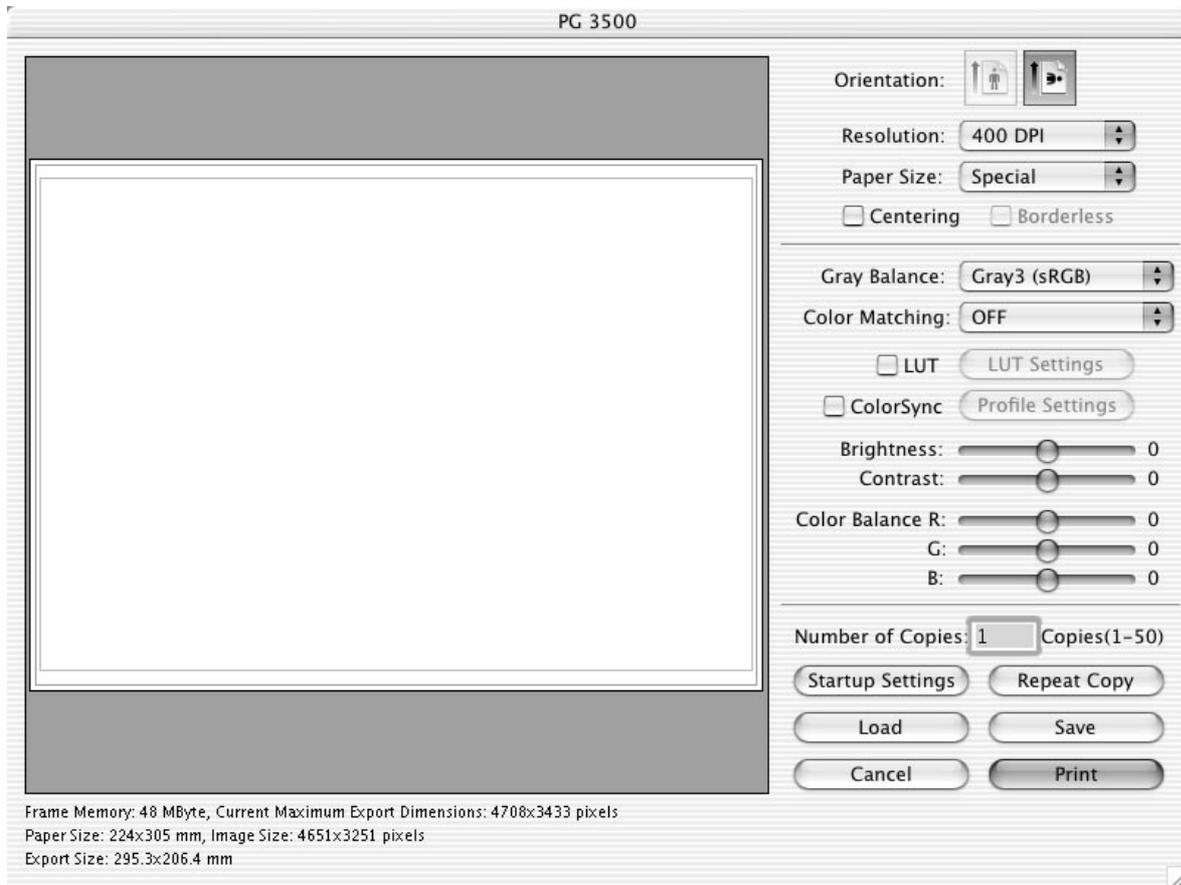


Notice: If there is no graphic image opened, or the opened image was a monochrome 2-gradation, the Export Plug-ins heading will be grayed out, and you will not be able to select it from the menu. If you select the Export Plug-ins heading and "PG 3500..." is not displayed, that means the PG 3500 Plug-in has not been installed properly.



Reference: When connect with two PICTROGRAPHY 3500, the printer select dialog will be appear while plug-in startup. For details, please refer to section 4-4 "Multi connection of the PICTROGRAPHY 3500" in the "Chapter 4: Reference".

Once you start the PG 3500 Plug-in, the following dialog box will be displayed:



[This figure shows the Mac OS X version.]

At the bottom of the dialog box, information about the PICTROGRAPHY 3500 print unit, and the image to be exported are displayed.

Frame Memory : 48 Mbyte
 Current Maximum Export Dimensions : 3433x4803 pixels
 Paper Size : 210x297 mm
 Image Size : 2048x1432 pixels
 Export Size : 130.0x90.9 mm
 *The Paper Size (Black Frame) of the image has been trimmed

[For Mac OS]

Frame Memory : 48 MByte, Current Maximum Export Dimensions : 4708x3433 pixels
 Paper Size : 224x305 mm, Image Size : 4651x3251 pixels
 Export Size : 295.3x206.4 mm

[For Mac OS X]

Frame Memory : 48 MByte Export Size : 130.0x90.9 mm
 Current Maximum Export Dimensions : 3433x4803 pixels Image Size : 2048x1432 pixels
 Paper Size : 210x297 mm *The Paper Size (Black Frame) of the image has been trimmed

[For Windows]

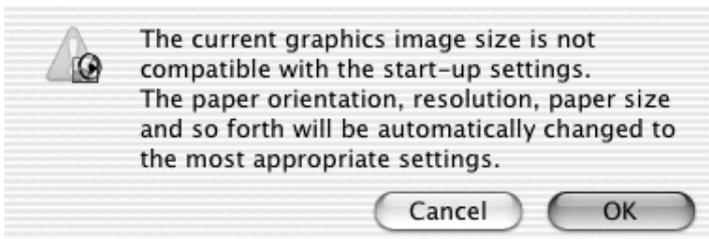
- “Frame Memory:” shows the amount of frame memory currently installed in the PICTROGRAPHY 3500 print unit.
- “Current Maximum Export Dimensions:” shows the maximum exportable pixel dimensions (in units of pixels) based on the current “Paper orientation”, “Resolution” and “Paper size” settings.
- “Paper Size:” shows the current paper size selected. (in mm)
- “Image Size:” shows the dimensions (in units of pixel) of the Photoshop image to be exported.
- “Export Size:” indicates the size (in mm) of the image to be exported, based on the currently selected resolution.
- “*The Paper Size (Black Frame) of the image has been trimmed” is displayed when “Borderless” is selected.

2-3: Default Start-up Settings for the PG 3500 Plug-in

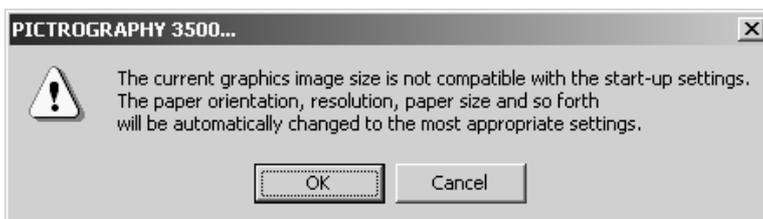
When the PG 3500 Plug-in is started, the default settings (changing these is described in section 2-20 below) for “Paper orientation”, “Resolution”, “Brightness”, “Contrast”, “Color balance”, “Centering”, “Borderless”, “Paper size”, “ColorSync / ICM”, “Color matching”, “Gray balance”, “LUT” (all shown below) are used. Be advised that depending on the size (Pixel dimensions) and paper orientation (portrait / landscape) of the graphics image to be output, the image may exceed the default settings for “Paper orientation”, “Resolution” and / or “Paper size”, in which case the entire image will not be exported. In this case, if the size of the paper roll loaded is different from the last time the plug-in was used for graphics image export, the following dialog box will appear, and the “Paper orientation”, “Resolution”, “Paper size” or other settings as needed will be changed on plug-in start up.



[For Mac OS]



[For Mac OS X]



[For Windows]



Notice: When connected with two PICTROGRAPHY 3500, “Startup settings” will support only the selected the PICTROGRAPHY 3500.

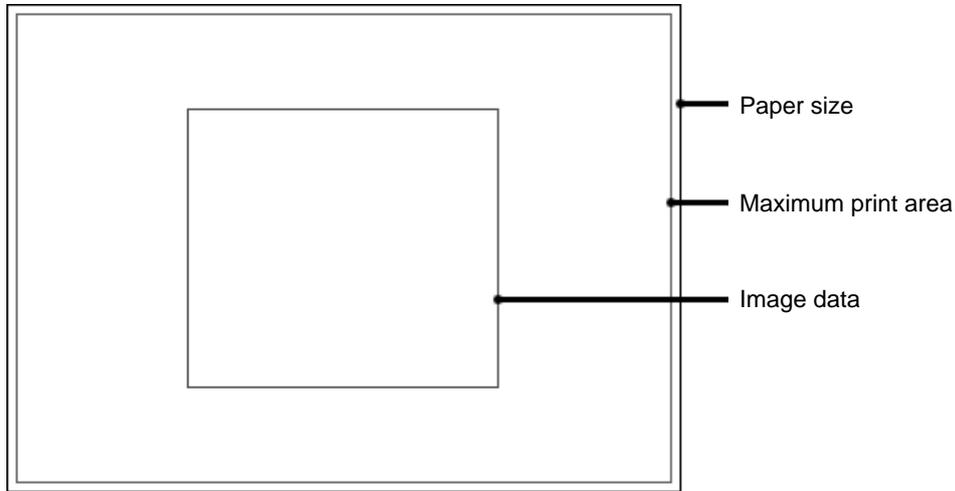


Reference: These are the default settings for the PG 3500 Plug-in when it is first installed:

- Paper orientation: Portrait
- Resolution: 400dpi
- Brightness: 0
- Contrast: 0
- Color balance: 0
- Centering: OFF
- Borderless: OFF
- Paper size: Maximum size of loaded paper
- ColorSync / ICM: OFF
- Color matching: OFF
- Gray balance: Gray3 (sRGB)
- LUT: OFF

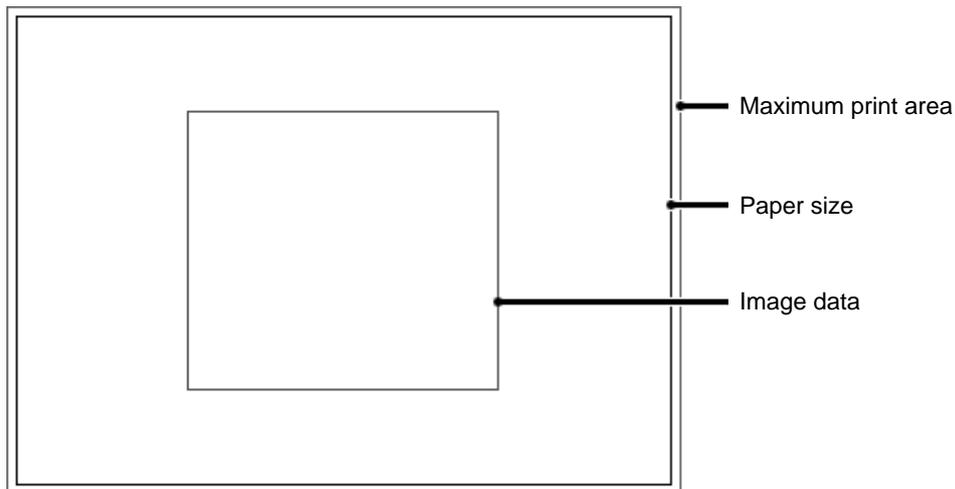
2-4: Template

On the left side of the dialog box, the layout template is shown. This template changes depending on the export mode selected. The template below show each mode:



[With borderless setting not selected]

The outermost black lines show the outer edge of the paper, the red lines just inside this indicate the largest possible print space, and the innermost blue lines show the perimeter of the graphic image to be printed.



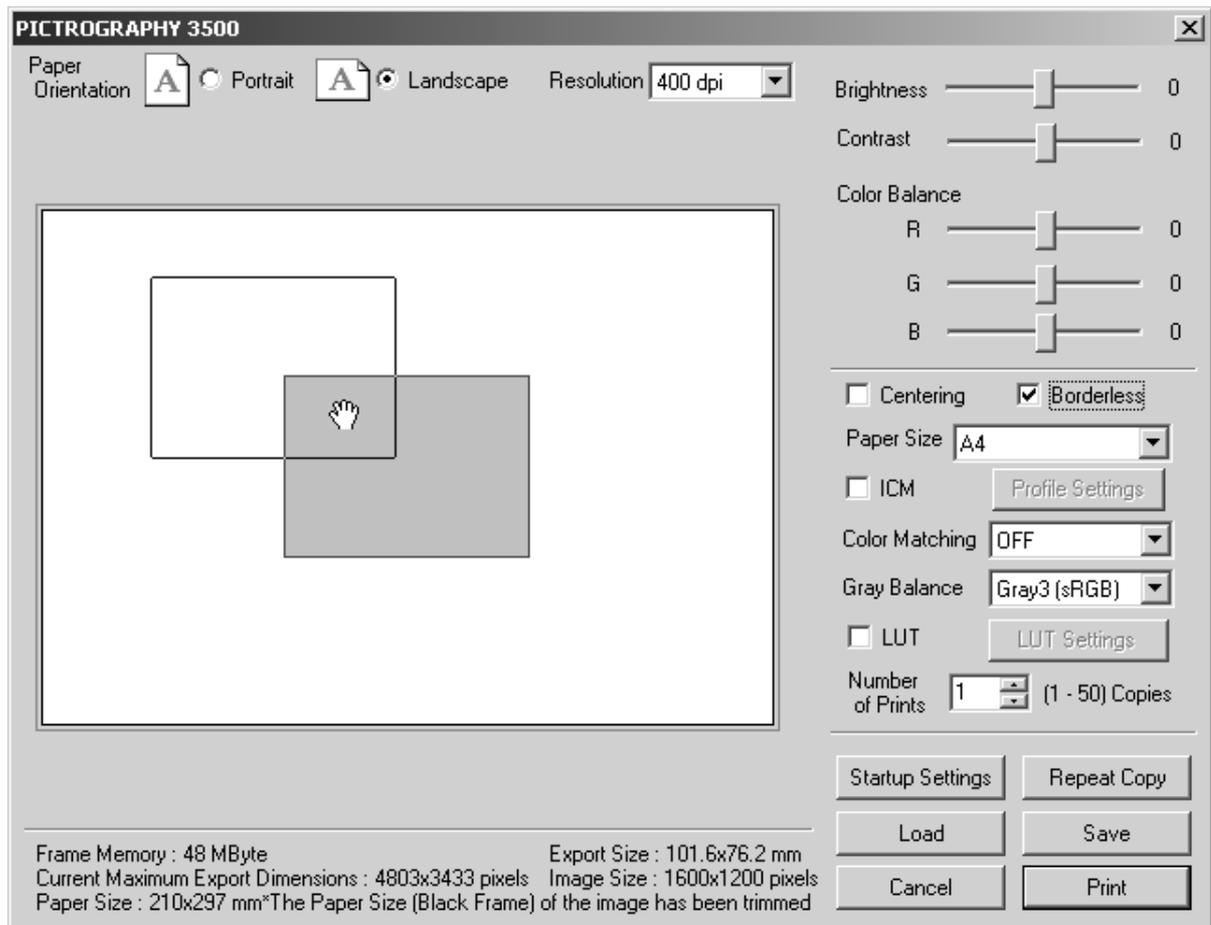
[With borderless setting selected]

The outermost red lines show the largest possible print space, the black lines just inside this indicate the outer edge of the paper, and the innermost blue lines show the perimeter of the graphic image to be printed.



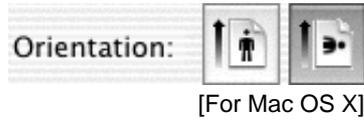
Reference: When "Borderless" is selected, there is an area of 4 mm at the top and bottom, left and right of the paper (8 mm total) where the graphics image cannot be printed. In order to print the entire image when using the borderless setting, you must calculate the maximum pixel dimensions while taking into account this unprintable area, and set the graphics image size accordingly. For details on the maximum print area, please refer to section 4-2 "Graphics Image Data Size" in "Chapter 4: Reference".

By dragging with the mouse on the rectangle indicating the image position on the paper, the image position for printing can be freely altered. In this case, the mouse cursor will become a hand-shaped cursor.

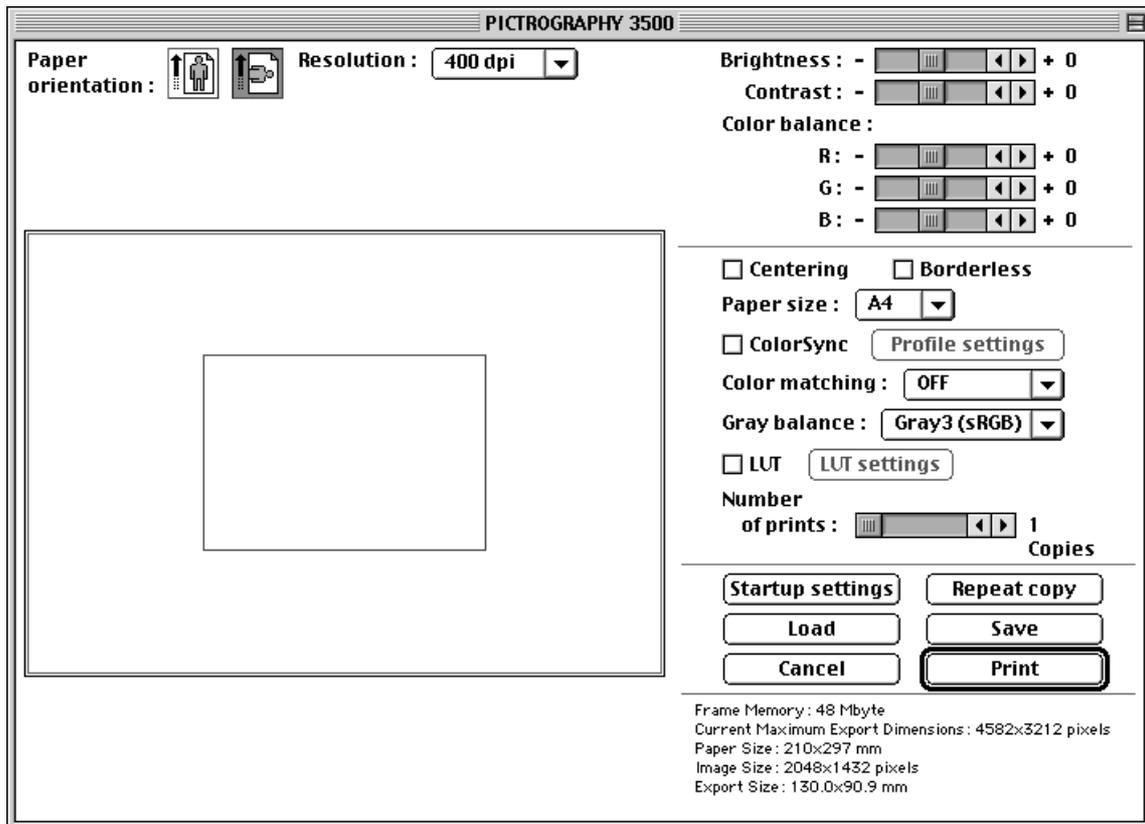


Notice: Using the layout template, it is not possible to place the graphics image in position which goes outside the red lines.

2-5: Paper Orientation



Paper orientation allows you to select between portrait print and landscape print. When you change the paper orientation, the template will change between portrait and landscape display.



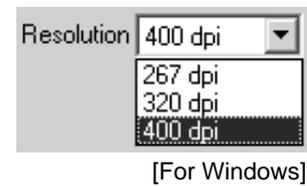
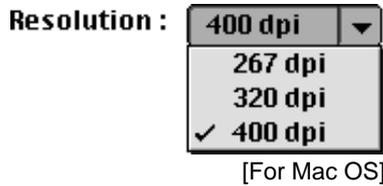
[This figure shows the Mac OS version.]



Notice: Depending on installed frame memory and size of the graphics image to be printed, the PICTROGRAPHY 3500 may not be able to print in all modes, in this case, the “Paper orientation” button will be grayed out, and you will not be able to change the setting.

2-6: Resolution

To change the resolution setting, select the "Resolution" from the dialog box. In the Macintosh version, there will be a pop-up menu, and in the Windows version, there will be a combo box to allow you to choose the resolution you desire with the mouse. By changing the resolution, the layout template will change as well. Available resolutions are 267, 320 and 400 dpi.



Notice: Due to the relationship between the image data size and the resolution, there may be resolution choices that are unavailable. This will be shown in the Macintosh version as gray in the menu item, and will not be shown at all in the Windows combo box.

2-7: Brightness

This Changes the brightness of the printed picture. Moving the indicator right (Plus) will make the print lighter, and moving it left (Minus) will make it darker.



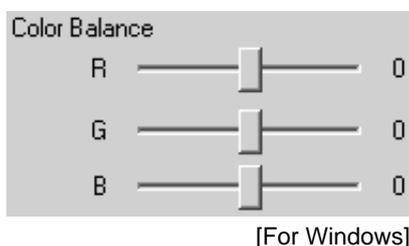
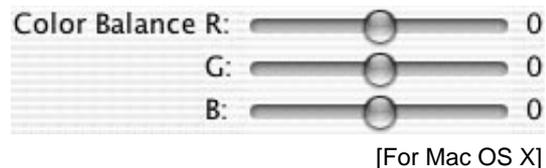
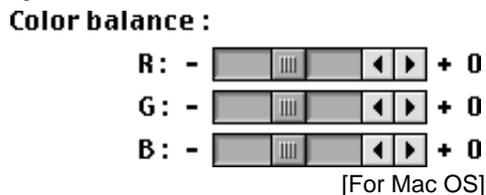
2-8: Contrast

This Changes the contrast of the printed picture. Moving the indicator right (Plus) will make the print contrast greater, and moving it left (Minus) will decrease the contrast level.



2-9: Color Balance (R, G, B)

This controls the print color. Moving the indicator right (Plus) will make the level of the selected color in the print greater, and moving it left (Minus) will reduce that color.



2-10: Centering

If this option is checked, the graphics image will be moved to the center of the paper. When “Centering” is on, the red lines on the template will disappear, and it will not be possible for you to move the image location on the layout.



2-11: Borderless

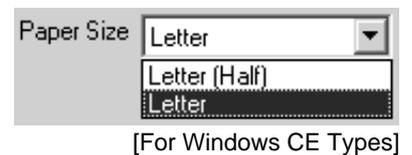
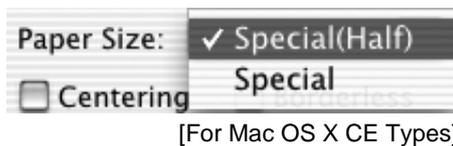
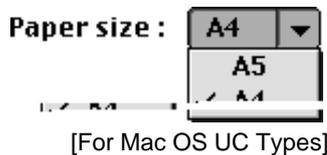
If this option is checked, the output will be in borderless mode, and if it is turned off, output will be in bordered mode. Changes in the selected setting will be shown on the template.



Reference: When “Borderless” is selected, there is an area of 4 mm at the top and bottom, left and right of the paper (8 mm total) where the graphics image cannot be printed. In order to print the entire image when using the borderless setting, you must calculate the maximum pixel dimensions while taking into account this unprintable area, and set the graphics image size accordingly. For details on the maximum print area, please refer to section 4-2 “Graphics Image Data Size” in “Chapter 4: Reference”.

2-12: Paper Size

To change the paper size setting, select the “Paper size” from the dialog box. In the Macintosh version, there will be a pop-up menu, and in the Windows version, there will be a combo box to allow you to indicate the width to be printed with the mouse, based on the width of the paper roll installed in the PICTROGRAPHY 3500.



Notice: Due to the relationship between the image data size and the resolution, there may be paper size choices that are unavailable. This will be shown in the Macintosh version as gray in the menu item, and will not be shown at all in the Windows combo box.



Reference: Depending on the width of the paper roll that are installed, the available paper sizes will change. For details on the paper sizes, please refer to section 4-3 “Paper Size” in “Chapter 4: Reference”.

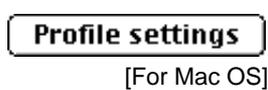
2-13: ColorSync / ICM

“ColorSync” is for Macintosh version, and “ICM” is for Windows version. If this option is checked, the graphics image will be sent to the Color Management System with the selected color profile before it output to the printer. And, if this option is checked the “Profile settings” button will be clickable.

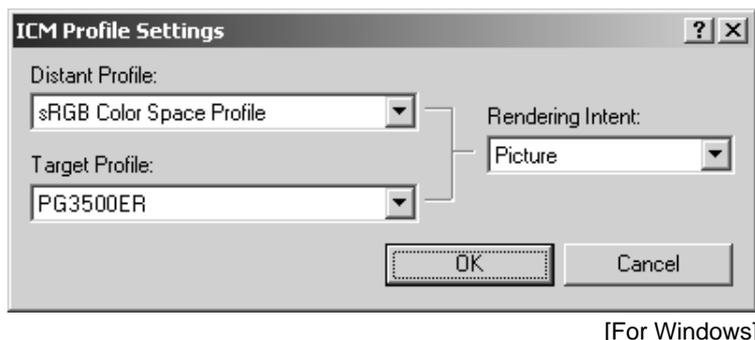
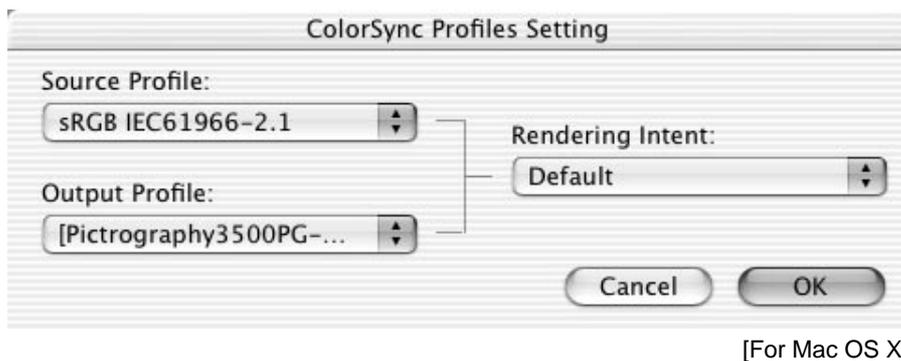
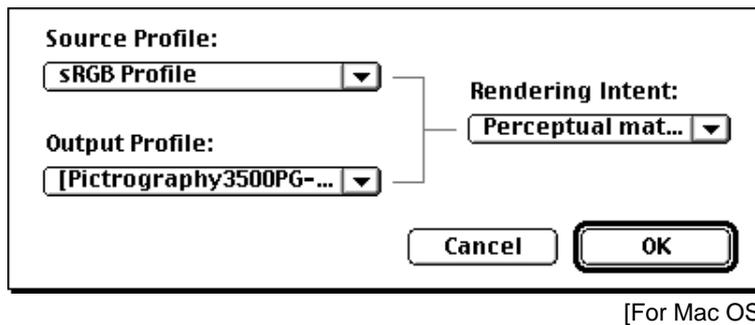


Notice: The PG 3500 Plug-in for Windows 95 and WindowsNT will not support the “ICM” process, and the Macintosh version will only work the “ColorSync” process with ColorSync version 2.5 or higher.

2-14: Profile Settings



By clicking on the “Profile settings” button, the following dialog box will be appeared. If Color Management System is used, profile and rendering intent will be selectable.



- **Source (Distant) Profile:**

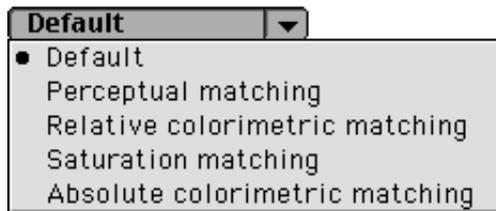
Select the monitor that you are using or the scanner that used to scan the image. Select the general sRGB profile when the proper profile is unavailable.

- **Output (Target) Profile:**

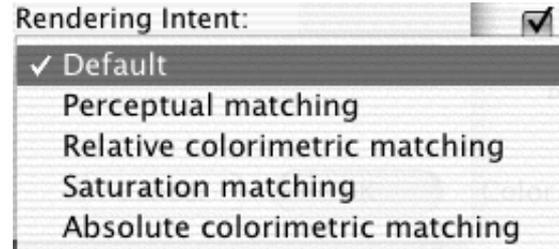
Select the PICTROGRAPHY 3500 profile.

- **Rendering Intent:**

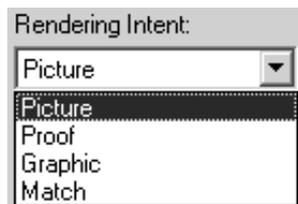
Rendering Intent:



[For Mac OS]



[For Mac OS X]



[For Windows]

- **Default: (For Macintosh only)**

Same as the Perceptual matching.

- **Perceptual matching (Picture):**

Performs appearance matching accompanied by reduction of the color reproduction spectrum. The most suitable color reproduction is obtained when sRGB monitor is chosen as the source (distant) profile.

- **Relative colorimetric matching (Proof):**

Compensates for white color differences, as opposed to absolute reproduction.

- **Saturation matching (Graphic):**

Same as the Perceptual matching.

- **Absolute colorimetric matching (Match):**

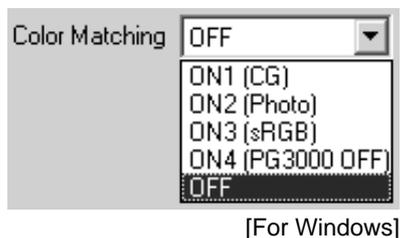
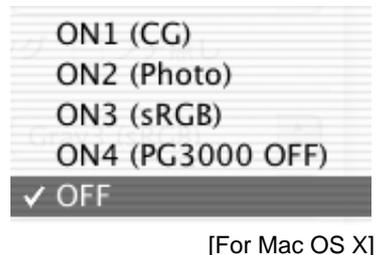
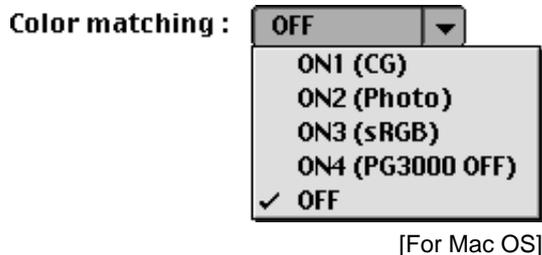
Performs colorimetric matching. Colors outside the color reproduction spectrum are poorly reproduced.



Notice: The PG 3500 Plug-in for Windows 95 and WindowsNT will not support the "ICM" process, and the Macintosh version will only work the "ColorSync" process with ColorSync version 2.5 or higher.

2-15: Color Matching

To change the color matching setting, select the “Color matching” from the dialog box. In the Macintosh version, there will be a pop-up menu, and in the Windows version, there will be a combo box to allow you to select the color matching to be used with the mouse.



• Color Matching Settings:

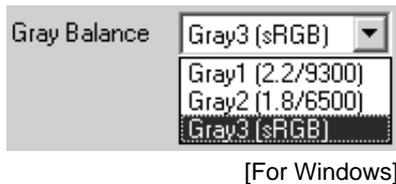
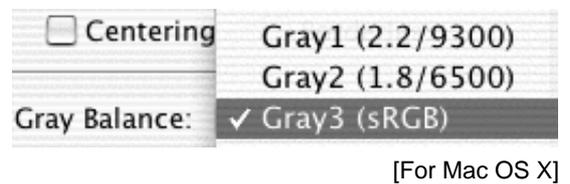
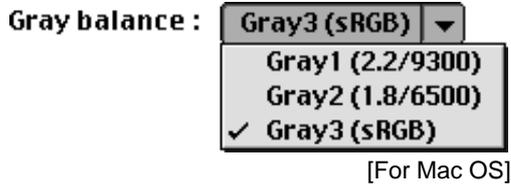
- ON1 (CG):
Performs color conversions suitable for printing high-chroma images, including computer graphics. Intended for monitors having color temperatures of 9300K and γ 2.2.
- ON2 (Photo):
Produces somewhat softer prints. Intended for monitors having color temperatures of 6500K and γ 1.8.
- ON3 (sRGB):
Suitable for printing with the sRGB monitors. This option is used to print high-chroma colors in low brightness and high chroma.
- ON4 (PG3000 OFF):
This option will work that produces result close to that obtained with PICTROGRAPHY 3000 color matching function set to “OFF”.
- OFF:
Disable printer color matching. With this option selected, gray reproduction is determined by settings for “Gray balance”.



Notice: If the checkbox of “ColorSync” for Macintosh version and “ICM” for Windows version is checked, the item will be gray out and not selectable.

2-16: Gray Balance

To change the gray balance setting, select the “Gray balance” from the dialog box. In the Macintosh version, there will be a pop-up menu, and in the Windows version, there will be a combo box to allow you to select the gray balance to be used with the mouse.



• Gray Balance Settings:

- Gray1 (2.2/9300):
Suitable for printing with monitors having color temperatures of 9300K and γ 2.2.
- Gray2 (1.8/6500):
Suitable for printing with monitors having color temperatures of 6500K and γ 1.8.
- Gray3 (sRGB):
Suitable for printing with the sRGB monitors.



Notice: If the checkbox of “ColorSync” for Macintosh version and “ICM” for Windows version is checked or the “Color matching” is not setting to “OFF” mode, the item will be gray out and not selectable.

2-17: LUT

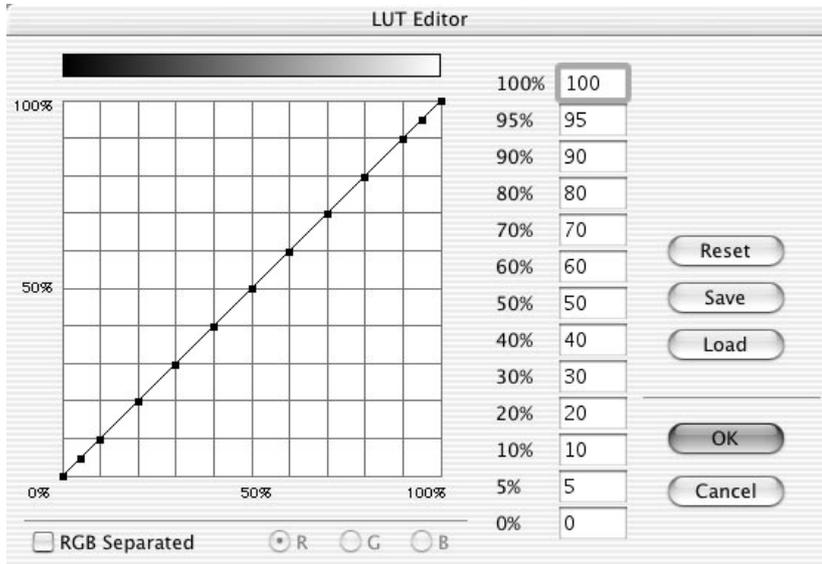
If this option is checked, the graphics image will be readjusted with the set tone curve in printing result. And, if this option is checked the “LUT settings” button will be clickable.



2-18: LUT Settings

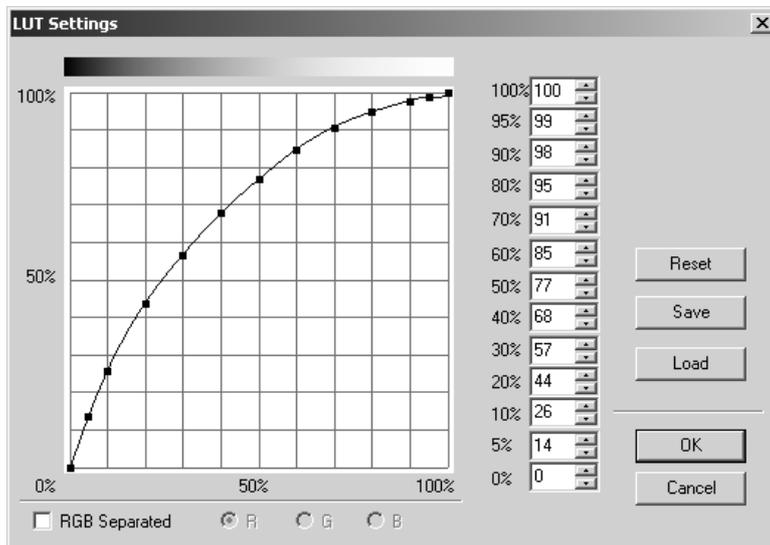


By clicking on the “LUT settings” button, the following dialog box will be appeared.



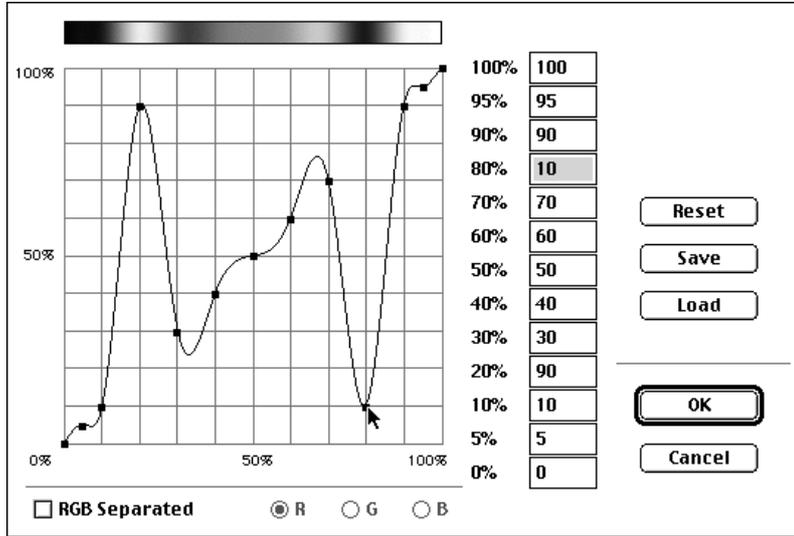
[This figure shows the Mac OS X version.]

In this dialog box, adjust the printing color and the tone curve will be generated.



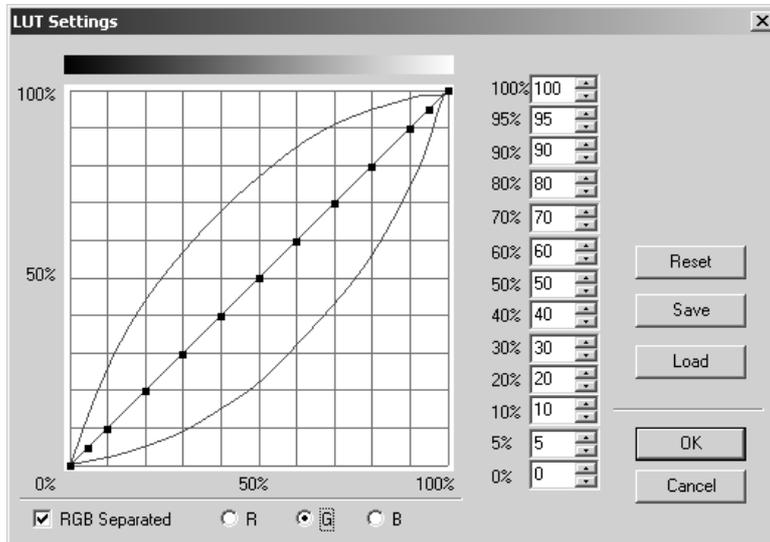
[This figure shows the Windows version.]

X-axis of dialog box's graphic area will be the input data and the Y-axis will be the output data, 0% for black color and 100% for white color. There are 13 control point within the graphic area, the following image showed how to adjust the control point with the mouse, the color will be brighter while increase the value of the control point, and the color will be darker while decrease the value of the control point. The value of control point will be showed beside the graphic area, it is also possible to input the value directly.



[This figure shows the Mac OS version.]

If the “RGB Separated” option is unchecked, RGB will be link to one tone curve. In this case is used for brighter or darker the output image. And if the option is checked, each RGB tone curve can be adjusted as the following image showed. In this case is used for increase green color level and decrease red color level of the output image.



[This figure shows the Windows version.]

• **Gray Scale:**



The gray scale show above the graphic area will show the result of RGB input value from 0% to 100%. If “RGB Separated” option is checked, the gray scale will only show as the selected RGB tone curve. For example, increase the value of R control point will result in more red color.

• **Reset:**



[For Mac OS]



[For Mac OS X]



[For Windows]

By clicking on the “Reset” button, the tone curve will be reset to the default value. And if the “RGB Separated” option is checked, only the selected tone curve will be reset to the default value.

• **Save:**

By clicking on the “Save” button, the usual file save dialog box will be appeared, and the file name for the export file will be requested.



[For Mac OS]

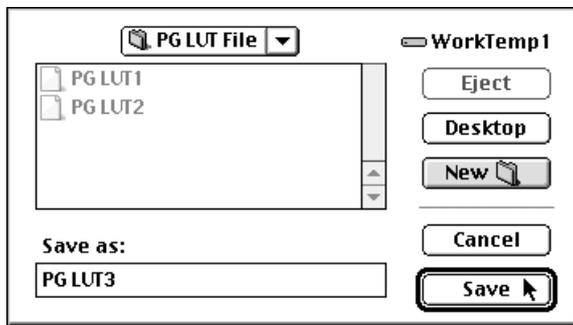


[For Mac OS X]

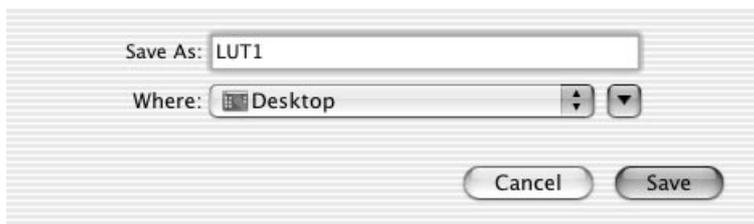


[For Windows]

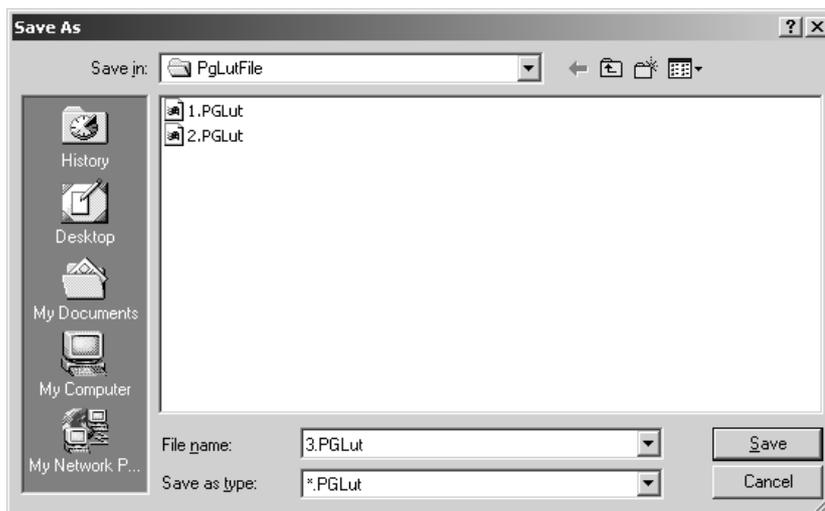
Enter a new file name and click on the “Save” button, the tone curve that showed in the graphic area will be saved as a file.



[For Mac OS]



[For Mac OS X]



[For Windows]



Notice: For the Windows version, the extension “.PGLut” will automatically be appended to the file name. This extension is necessary for reading the LUT settings file, so it should not be deleted or modified.

• **Load:**

By clicking on the “Load” button, the usual file open dialog box will be appeared, and the file name for the import file will be requested.



[For Mac OS]

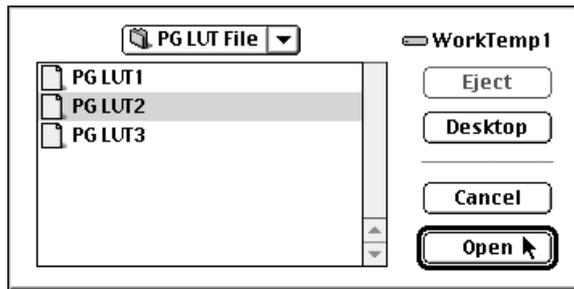


[For Mac OS X]

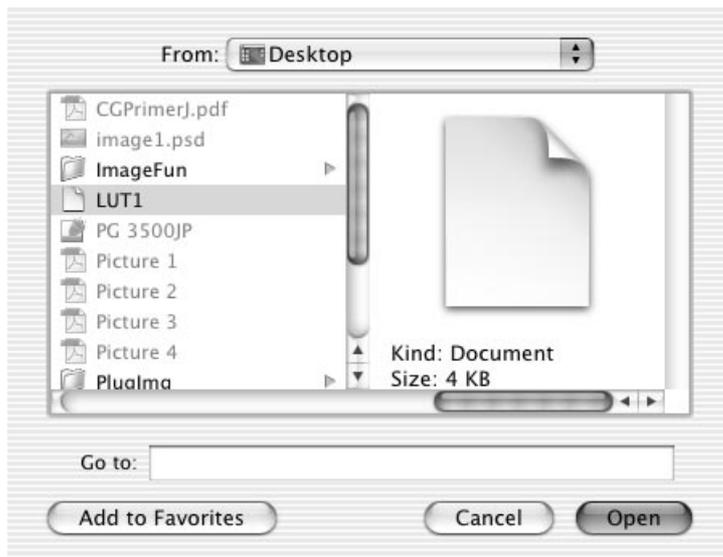


[For Windows]

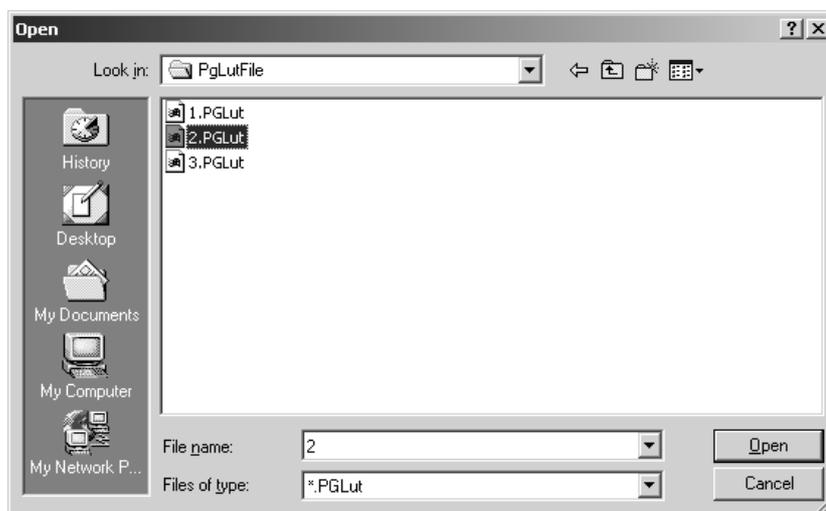
Select the file name and click on “Open” button, the value of tone curve will be read and shown in the graphic area.



[For Mac OS]



[For Mac OS X]

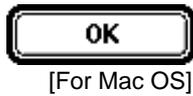


[For Windows]



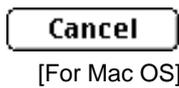
Notice: For the Windows version, if the extension “.PGLut” is not part of the LUT settings file name, the file name will not appear in the file open dialog box.

• **OK:**



By clicking on the “OK” button, the tone curve will be save as default setting and the dialog box will be closed.

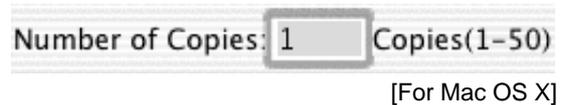
• **Cancel:**



By clicking on the “Cancel” button, the tone curve will be dispose and the dialog box will be closed. The value of tone curve will remain as the last default setting.

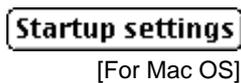
2-19: Number of Prints

This is used to print multiple copies of the same page. The maximum setting is 50 copies.



2-20: Startup Settings

When the “Startup settings” button is selected, the current “Paper orientation”, “Resolution”, “Brightness”, “Contrast”, “Color balance”, “Centering”, “Borderless”, “Paper size”, “ColorSync / ICM”, “Color matching”, “Gray balance” amd “LUT” settings are saved, so the next time you start up the PG 3500 Plug-in, those setings will be maintained.



Notice: If you do not select the “Startup settings” button, the next time you start the PG 3500 Plug-in, the settings will not have been saved, and so the prior settings (from a prior pressing of the “Startup settings” button) will appear. When connected with two PICTROGRAPHY 3500, “Startup settings” will support only the selected the PICTROGRAPHY 3500.



Reference: These are the default settings for the PG 3500 Plug-in when it is first installed:

- Paper orientation: Portrait
- Resolution: 400dpi
- Brightness: 0
- Contrast: 0
- Color balance: 0
- Centering: OFF
- Borderless: OFF
- Paper size: Maximum size of loaded paper
- ColorSync / ICM: OFF
- Color matching: OFF
- Gray balance: Gray3 (sRGB)
- LUT: OFF

2-21: Repeat Copy

Repeat copy

[For Mac OS]

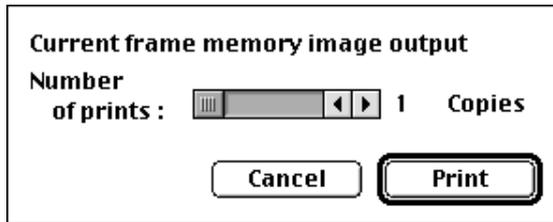
Repeat Copy

[For Mac OS X]

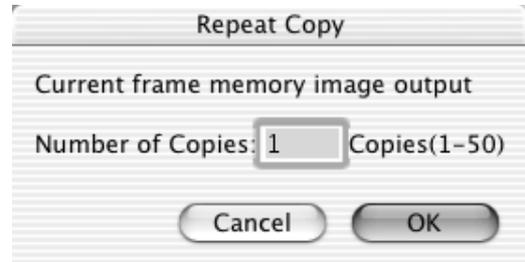
Repeat Copy

[For Windows]

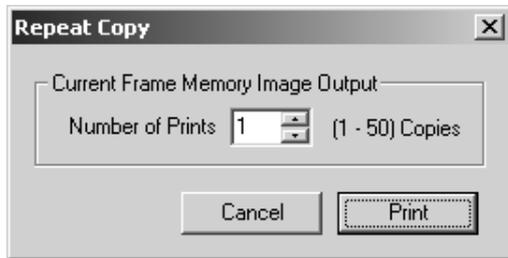
By clicking on the “Repeat copy” button, the following dialog box will be appeared.



[For Mac OS]



[For Mac OS X]



[For Windows]

In this dialog box input the printing page value, the image remain in the frame memory, as you printed last time will be output again.



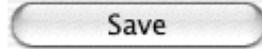
Notice: The “Repeat copy” function will not work properly, if the image data is output from the printer driver or other printing software. Please be aware.

2-22: Save

By clicking on the “Save” button, the usual file save dialog box will be appeared, and the file name for the export file will be requested.



[For Mac OS]

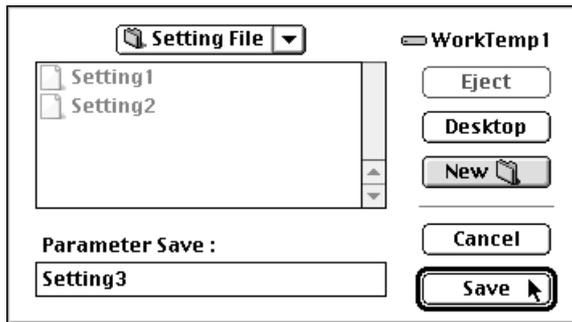


[For Mac OS X]

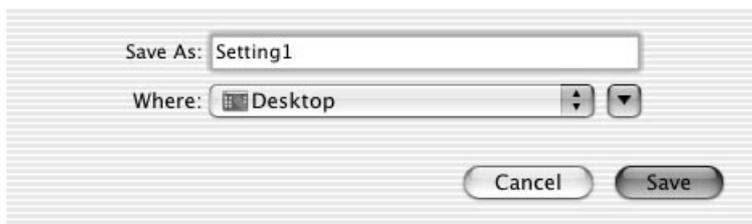


[For Windows]

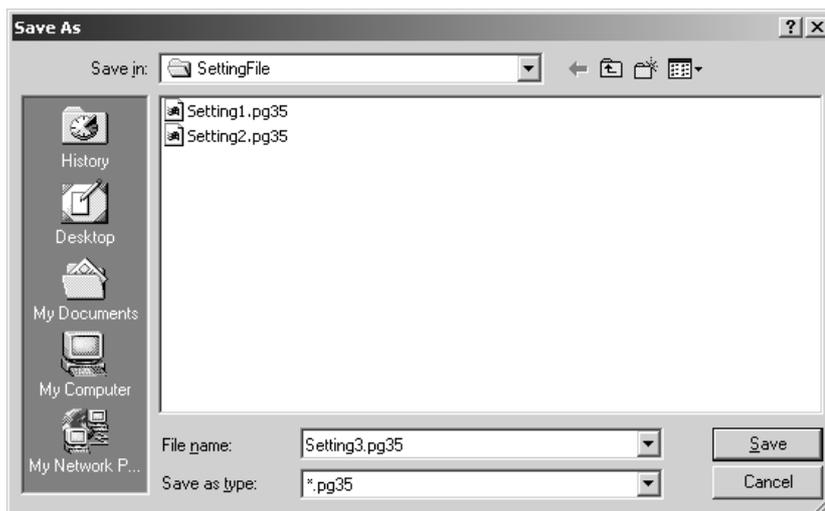
Enter a new file name and click on the “Save” button, the “Paper orientation”, “Resolution”, “Brightness”, “Contrast”, “Color balance”, “Centering”, “Borderless”, “Paper size”, “ColorSync / ICM”, “Color matching”, “Gray balance” and “LUT” values will be saved as a file.



[For Mac OS]



[For Mac OS X]



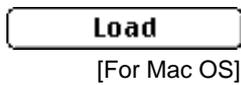
[For Windows]



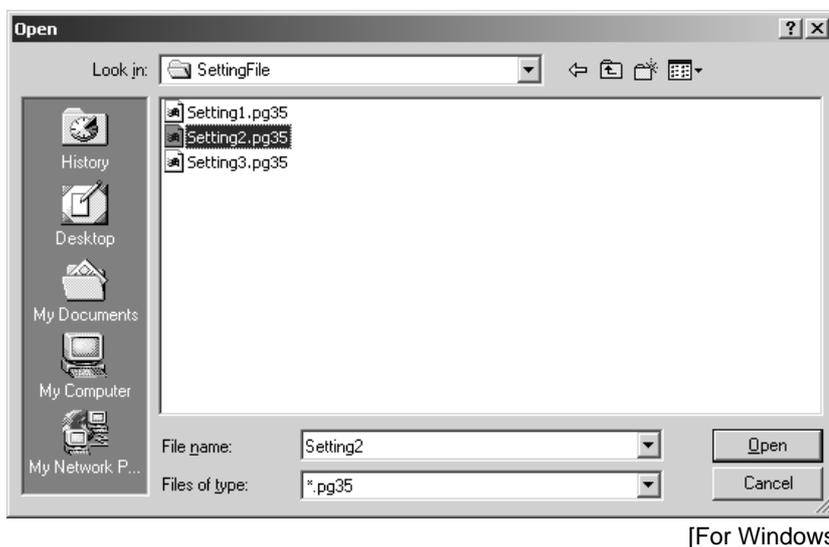
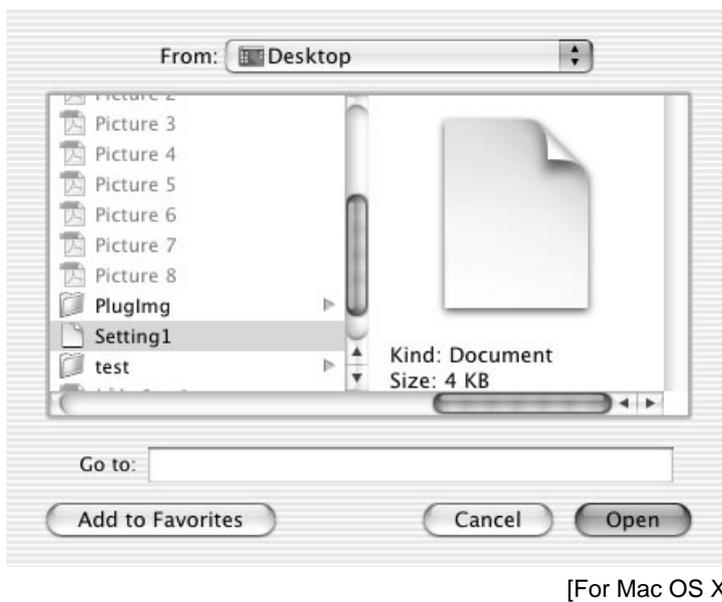
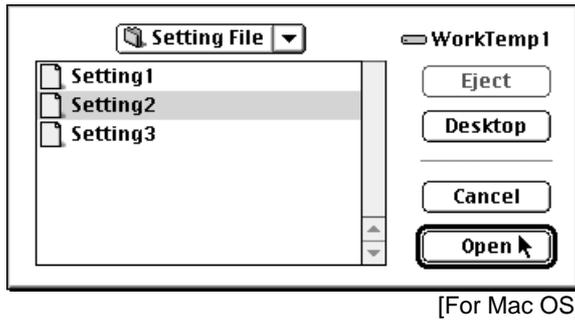
Notice: For the Windows version, the extension “.pg35” will automatically be appended to the file name. This extension is necessary for reading the settings file, so it should not be deleted or modified.

2-23: Load

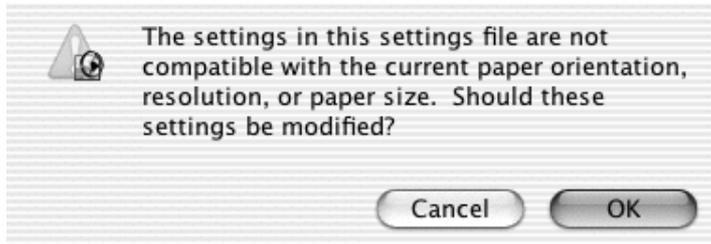
By clicking on the “Load” button, the usual file open dialog box will be appeared, and the file name for the import file will be requested.



Select the file name and click on “Open” button, the “Paper orientation”, “Resolution”, “Brightness”, “Contrast”, “Color balance”, “Centering”, “Borderless”, “Paper size”, “ColorSync / ICM”, “Color matching”, “Gray balance” and “LUT” values saved in that file will be used as the settings for the current graphics image.



If the open settings file contains “Paper orientation”, “Resolution”, or “Paper size” headings inappropriate for the current graphics image, the following dialog box will appear, and settings changes will be requested.



[This figure shows the Mac OS X version.]



Notice: For the Windows version, if the extension “.pg35” is not part of the settings file name, the file name will not appear in the file open dialog box.



Reference: If the “OK” button is selected to modify the settings, the optimal settings will be judged, based on the maximum printable area of the current paper, and the layout will be changed accordingly. The “Brightness”, “Contrast”, “Color balance” and so on will be left as they were from the opened settings file.

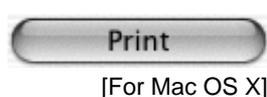
2-24: Cancel

By clicking on the “Cancel” button, the operations of the PG 3500 Plug-in will be aborted.



2-25: Print

When the “Print” button is selected, the current graphics image will be sent to the printer. While data is being transmitted, it is possible to cancel the print process on the Macintosh version by simultaneously pressing the command (⌘) and period (.) keys, or, when the progress bar is shown, by click on the “Cancel” button. It is possible to abort operations on the windows version by pressing the escape (Esc) key.



Chapter 3: Error Messages

The following chapter describes the warning and error messages that are used by the PG 3500 Plug-in.

3-1: Warning Message Summary Chart

“Cannot find PICTROGRAPHY.”

Troubleshooting: Check that the PICTROGRAPHY is connected. If you have a SCSI bus checking utility, make sure the PICTROGRAPHY device is shown on the SCSI bus.

“PICTROGRAPHY is either printing or off-line. Waiting for it to return to on-line. Please wait a moment.”

Troubleshooting: Either set the PICTROGRAPHY printer on-line, or if it is printing, once it has finished, the PG 3500 Plug-in will start.

“Set the graphics image mode to RGB, and then relaunch the PG 3500 Plug-in.”

Troubleshooting: The image that is to be exported is in a graphics mode other than RGB (including Monochrome2-gradation, Grayscale, Duotone, Index Color, CMYK Color, Lab Color and Multichannel) Correct the mode in Photoshop, and then reactivate the plug-in.

“The current graphics image size is not compatible with the start-up settings. The paper orientation, resolution, paper size and so forth will be automatically changed to the most appropriate settings.”

Troubleshooting: The graphics image to be exported is not compatible with the paper orientation, resolution, paper size, and so will not fit correctly on the paper. The plug-in will automatically correct these settings as it loads.

“The settings in this settings file are not compatible with the current paper orientation, resolution, or paper size. Should these settings be modified?”

Troubleshooting: The paper orientation, resolution, or paper size in the settings file to be opened are not compatible with the current settings. To change the settings from the settings file, click on the “OK” button.

“The image size is too large. The currently loaded paper roll has the maximum export dimensions at 400 dpi of: **** x **** pixels.”

Troubleshooting: The graphics image to be exported is too large for the pixels dimensions of the currently loaded paper roll at 400 dpi. In order to reduce the image size below the displayed pixel dimensions, it is necessary to either resize or crop the image, before re-attempting export.

“The ipaper has been changed since the plug-in has launched. Please relaunch the plug-in before attempting to print.”

Troubleshooting: After loading the plug-in, either the paper size loaded in the PICTROGRAPHY has been changed. The current settings for the plug-in have become invalid, so the plug-in must be closed, and the user must return to Photoshop, Relaunch the plug-in before attempting to print.

“The PICTROGRAPHY is either currently operating, or is off-line. Printing cannot continue.”

Troubleshooting: Since the plug-in was loaded, the PICTROGRAPHY printer has either been switched off-line, or is in the middle of a process, and so printing cannot continue. Set the PICTROGRAPHY on-line, and relaunch the plug-in before attempting to print.

3-2: Error Message Summary Chart

“Abnormal water level detected”

Error Code: C86-1

Troubleshooting: The level of the water used for application has become too low. Check if the draft tube is failing to draw from the water bottle.

“Insufficient water (water level in the bottle is low)”

Error Code: C87-1

Troubleshooting: Add water to bring the level in the water bottle up to the needed level.

“Donor has run out”

Error Code: C90-1

Troubleshooting: Replace the donor.

“Paper has run out”

Error Code: C91-1

Troubleshooting: Replace the paper.

“Replace the water bottle”

Error Code: C92-1

Troubleshooting: Replace the water in the bottle.

“Waste storage is full”

Error Code: C93-1

Troubleshooting: Discard the used waste storage.

Use only a new waste storage system developed by Fuji Photo Film Co., Ltd. for the PICTROGRAPHY. Inquire at the point of purchase for information.

“Replace the filter”

Error Code: C94-1

Troubleshooting: Replace the water filter.

“The donor magazine is not set”

Error Code: C95-1

Troubleshooting: Reposition the donor magazine correctly.

“The paper magazine is not set”

Error Code: C96-1

Troubleshooting: Reposition the paper magazine correctly.

“No water bottle detected”

Error Code: C97-1

Troubleshooting: Reposition the water bottle correctly.

“No filter detected”

Error Code: C98-1

Troubleshooting: Reposition the water filter correctly.

• Errors other than those listed above

“An error has been detected in the PICTROGRAPHY”

Error Code: ***-*

Troubleshooting: Consult the instruction manual for the PICTROGRAPHY under the correct error code setting.

Chapter 4: Reference

This chapter details the functional limits of the PG 3500 Plug-in.

4-1: Printable Graphics Image Modes

Only RGB graphics image. For images in any other mode (including Monochrom 2-gradation, Grayscale, Duotone, Index Color, CMYK Color, Lab Color and Multichannel), convert the image to RGB mode in Photoshop before attempting to export.

4-2: Graphics Image Data Size

For details on the relationship between image sizes and resolutions, please refer to the table below:

- With Border 3 mm (Units of Y x X pixels)

Paper size		267dpi	320dpi	400dpi
A5	CE Types only	2141 x 1496	2570 x 1795	3212 x 2244
A4		2141 x 3055	2570 x 3666	3212 x 4582
Letter (Half)	UC Types only	2204 x 1401	2645 x 1681	3307 x 2102
Letter		2204 x 2866	2645 x 3439	3307 x 4299
Special (Half)		2288 x 1580	2746 x 1896	3433 x 2370
Special		2288 x 3139	2746 x 3766	3433 x 4708

- With Borderless (Units of Y x X pixels)

Paper size		267dpi	320dpi	400dpi
A5*	CE Types only	2288 x 1643	2746 x 1971	3433 x 2464
A4*		2288 x 3202	2746 x 3842	3433 x 4803
Letter (Half)*	UC Types only	—	—	—
Letter*		—	—	—
Special (Half)		—	—	—
Special		—	—	—



Notice: With the Borderless setting on, the Letter (Half), Letter, Special (Half) and Special export print sizes are not available.

*: When using the OHP roll, the A5, A4, Letter (Half) and Letter sizes cannot be printed with Borderless setting.

4-3: Paper Size

The paper sizes that can be used with the PG 3500 Plug-in are shown in the table below:

Paper type		Size	Maximum Image Size with Border 3 mm	Maximum Image Size with Borderless
A5*	CE Types only	210.0 x 148.5	204.0 x 142.5	218.0 x 156.5
A4*		210.0 x 297.0	204.0 x 291.0	218.0 x 305.0
Letter (Half)	UC Types only	216.0 x 139.5	210.0 x 133.5	—
Letter		216.0 x 279.0	210.0 x 273.0	—
Special (Half)		224.0 x 156.5	218.0 x 150.5	—
Special		224.0 x 305.0	218.0 x 299.0	—

(Units of Y x X mm)

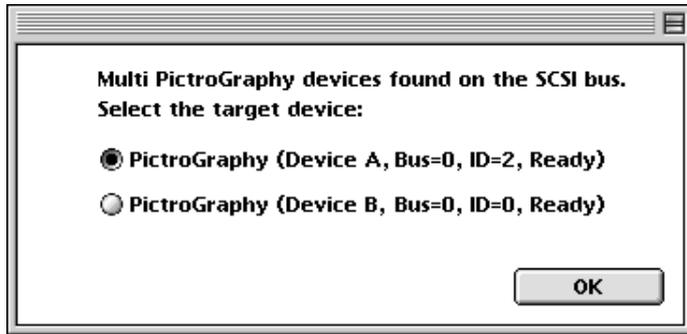


Notice: With the Borderless setting on, the Letter (Half), Letter, Special (Half) and Special export print sizes are not available.

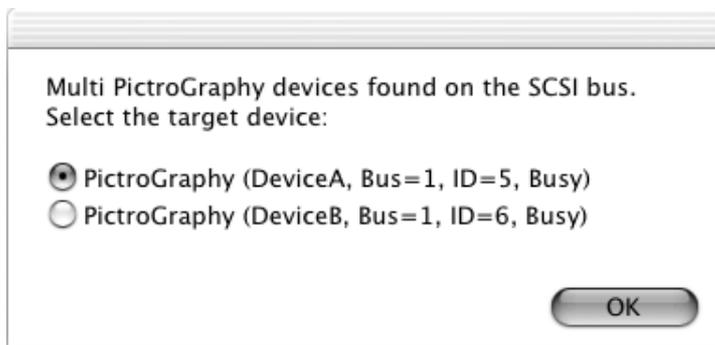
*: When using the OHP roll, the A5, A4, Letter (Half) and Letter sizes cannot be printed with Borderless setting.

4-4: Multi Connection of the PICTROGRAPHY 3500

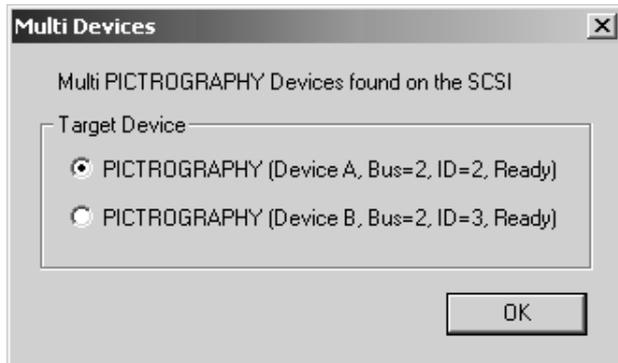
When connecting with two PICTROGRAPHY 3500 printer, the following dialog box will be appeared when plug-in startup.



[For Mac OS]



[For Mac OS X]



[For Windows]

Select the target PICTROGRAPHY 3500 device in this dialog box and click the “OK” button the main dialog box will be appeared.



Notice: In case of PICTROGRAPHY 3500 is in printing or off-line mode the “Busy” will show and not selectable, please be aware. Also when connected with two PICTROGRAPHY 3500, “Startup settings” will support only the selected the PICTROGRAPHY 3500.



FUJI PHOTO FILM CO., LTD.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.

< FUJIFILM ABROAD >

- In North America FUJI PHOTO FILM U.S.A., INC.
555 Taxter Road, Elmsford, N.Y. 10523, U.S.A.
- FUJI PHOTO FILM CANADA INC.
275 Britannia Road East, Mississauga, Ontario, L4Z 2E7, Canada
- FUJI PHOTO FILM HAWAII, INC.
1650 Kalakaua Avenue, Honolulu, Hawaii 96826, U.S.A.
- In Europe FUJI PHOTO FILM (EUROPE) G.m.b.H.
Heesenstr. 31,40549 Dusseldorf, Germany
- FUJI PHOTO FILM (U.K.) LTD.
Fuji Film House, 125 Finchley Road, Swiss Cottage, London NW3 6JH, England
- FUJI FILM ESPAÑA, S.A.
Aragon, 180, 08011-Barcelona, Spain
- FUJI FILM FRANCE, S.A.
Parc d'Activites du Pas-du-Lac-2, Avenue Franklin, St. Quentin-en-Yvelines Cedex, France
- In South America FUJI PHOTO FILM DO BRASIL LTDA.
Avenida Vereador Jose Diniz No. 3.400, Campo Belo-CEP 04.604 Cx. Postal 9.959.,
Sao Paulo-SP, Brasil
- In Asia FUJI PHOTO FILM CO., LTD., HONG KONG OFFICE
Room 916, Sun Plaza, 28 Canton Road, Tsim Sha Tsui, Kowloon, Hong Kong
- FUJI PHOTO FILM (SINGAPORE) PTE. LTD.
10 New Industrial Road, Singapore 536201
- FUJI PHOTO FILM (THAILAND) LTD.
S.P. Building, 8th Floor, 388 Phaholyothin Road, Bangkok 10400, Thailand
- FUJI PHOTO FILM (MALAYSIA) SDN.BHD.
Letter Box 3, 3rd Floor Office Block 1, Crystal Plaza Lot 4, Jalan 51A/223 46100
Petaling Jaya Selangor Darul Ehaan Malaysia
- FUJI PHOTO FILM CO., LTD., TAIPEI OFFICE
Rm. 601, Hung Chong Bldg., No. 38, Sec. 6, Min Chuan E. Rd., Taipei 11412,
Taiwan, Republic of China
- FUJI PHOTO FILM CO., LTD., SEOUL OFFICE
Samduck Bldg, 6F., 144-1, Samaung-Dong, Kang Nam-Ku, Seoul 135-090, Korea
- FUJI PHOTO FILM CO., LTD., BEIJING REPRESENTATIVE OFFICE
Beijing Fortune Bldg, No. 817, 5, Dong Sanhuan Bei-lu, Chaoyang Diatrick, Beijing,
China 100004
- FUJI PHOTO FILM CO., LTD., HO CHI MINH OFFICE
29-31 Ton That Thiep St., O.I Ho Chi Minh City, Vietnam
- FUJI PHOTO FILM CO., LTD., NEW DELHI OFFICE
Le Meridian Commercial Tower 8F Janpath, New Delhi 110001, India
- FUJI PHOTO FILM CO., LTD., MANILA OFFICE
24 Sto. Domingo St., Quezon City, Philippines
- In Oceania FUJI PHOTO FILM CO., LTD., SYDNEY REPRESENTATIVE OFFICE
c/o Hanimex Pty. Limited, Old Pittwater Road, Brookvale, N.S.W. 2100, Australia
- In Middle East FUJI PHOTO FILM CO., LTD., DUBAI OFFICE
No. 4G-17, L. O. B. No. 4, P. O. BOX 17212, Jebel Ali, Dubai, U. A. E.

PICTROGRAPHY 3500 Export Plug-in Module User's Manual

The Third Edition; October 28, 2002

Published by: Fuji Photo Film Co., Ltd.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.

Written by: Texnai Inc.

No. 1008, Udagawacho 2-1, Shibuya-ku, Tokyo 150-0042, Japan.

Copyright © 2002 Fuji Photo Film Co., Ltd. All rights reserved.



Fuji Photo Film Co., Ltd.

26-30, Nishiazabu 2-chome, Minato-ku, Tokyo 106-8620, Japan.