DS610CF

User's Manual

Avision, Inc

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This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communication. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

* Reorient or relocate the receiving antenna.
* Increase the separation between the equipment and receiver.
* Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
* Consult the dealer or an experienced radio/TV technician for help.

FCC CAUTION: To assure continued compliance,(example- use only shielded interface cables when connecting to computer or peripheral devices). Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

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Table of Contents

1.   INTRODUCTION

Congratulations on your purchase of DS610CF.

The DS610CF produces better printing quality and is free from maintenance, compared with traditional copy machines. Its high printing quality, maintenance-free operation and affordability make DS610CF the best convenience copier solution for office.

The following sections introduce the unpacking, hardware and software installation, the operation, and maintenance information to you. Please spend a few minutes reading through them to keep quality scanning result possible.

Figure 1-1 shows how the DS610CF is packed. Please check all the items against Figure 1-1. If there is any missing or damaged, please contact your nearest dealer immediately for the replacement.
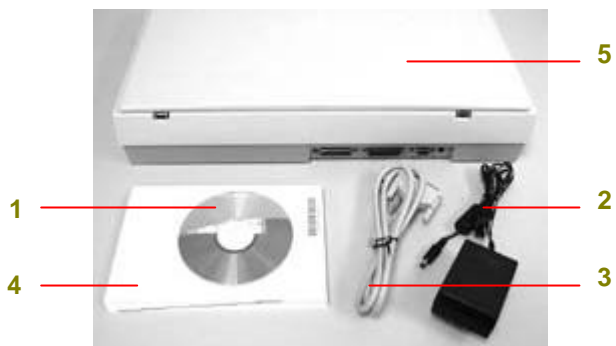
1. Software CD
2. Power Adapter
3. DS610CF Cable
4. Quick Installation Guide
5. DS610CF main unit

Figure 1-1 DS610CF packing

2. DS610CF INSTALLATION

2.1 PRECAUTIONS

- Keep the DS610CF out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit.
- Do not install the DS610CF in a humid or dusty place.
- Be sure to use the proper AC power source.
- Place the DS610CF securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper-feeding problems.
- Retain the DS610CF box and packing materials for shipping purposes.

2.2 UNLOCKING THE DS610CF

To protect the scanning head from damage during shipment, the DS610CF is designed with a lock switch beneath the main unit. Therefore, before using the DS610CF, it is required to unlock DS610CF by moving the lock switch to the *Use* position.(See Figure 2-1)

1. "Shipping" Position   2. "Use" Position

Figure 2-1 Unlocking the DS610CF

2.3   CONNECTING THE CABLE

2.3.1   CONNECTING DS610CF TO WORK AS A COPIER

Connect the power cable and signal cable as shown below.

Printer Cable

Power Cable

To Power Outlet
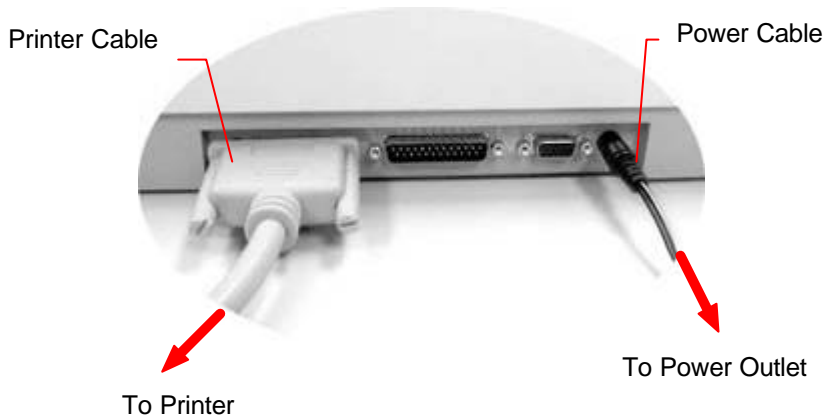
To Printer

Figure 2-2 Connecting DS610CF to a printer

2.3.2 CONNECTING DS610CF TO WORK AS A SCANNER

Parallel Cable

Power Cable

Printer Cable

To Power Outlet

To Printer

To PC Parallel Port
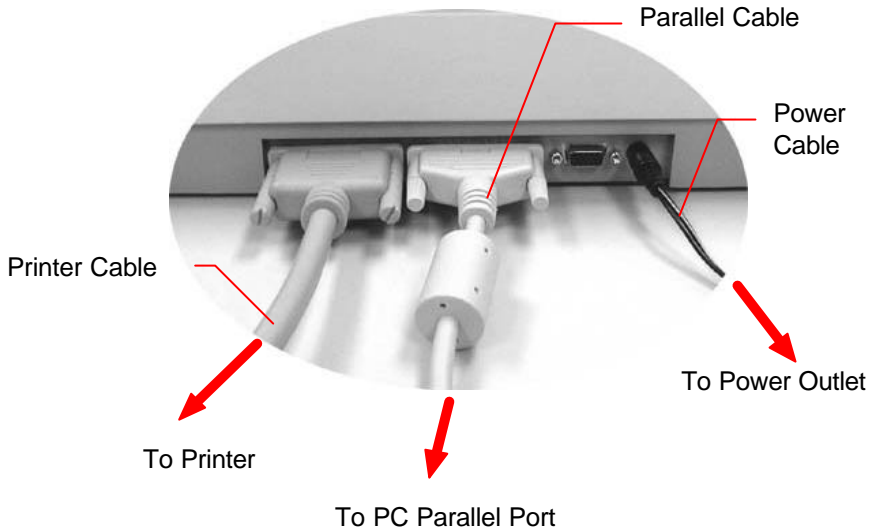
Figure 2-3 DS610CF Cable Connection

2.4   DOCUMENT PLACEMENT

As shown in Figure 2-4, place the document on the glass face (text) down.
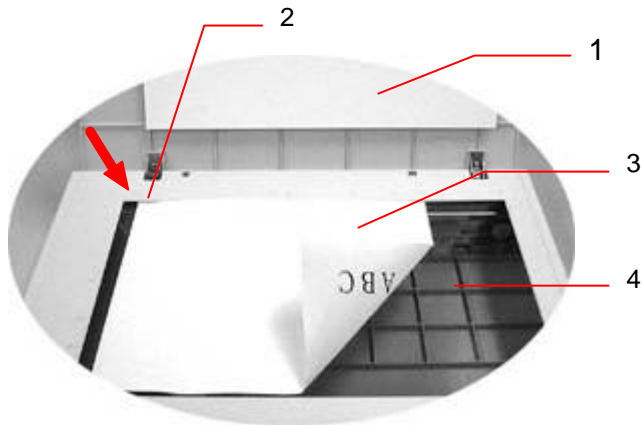
1. Document Cover
2. Home Position Mark
3. Document
4. Document Glass

Figure 2.4 Document Placement

3. USING DS610CF AS A COPIER
3.1 THE CONTROL PANEL

1. **Copy(Color):** Press to start a color copy.

2. **Copy(B/W):** Press to start a black-and-white copy **.**

3. **Power/Copy LED:** The LED indicator turns green when power is on and turns flashing during copying.

4. **All Clear:** Press and instantly release to return to the custom settings.
   Press for 5 seconds to return to the factory default settings.

5. **Auto/Text/Photo:** Press to respectively concentrate on photo, text, or auto copying.

6. **Normal/Quality:** Select your Copy quality: **Normal** (300 dpi), or **Quality** (600 dpi).

7. **Copy Count:** Choose the number of copies from 1 to 99.   Increase the value of the numeric entries by the (▲) button or decrease the value by the (▼) button.

8. **Select:** Press to save the latest custom setting. (A star sign, "*", will appear in the right-hand side.)

9. ▲ **:** Go to the previous item displayed in the Message Display window or increase the value of the numeric entries.

10. ▼ **:** Go to the next item displayed in the Message Display window or decrease the value of the numeric entries.

11. **Menu:** Select paper size, printer type, Mirror function, power-saving interval, Duplex, Fit-to-A3, Input Tray, or Output Bin, depending on various printer models.
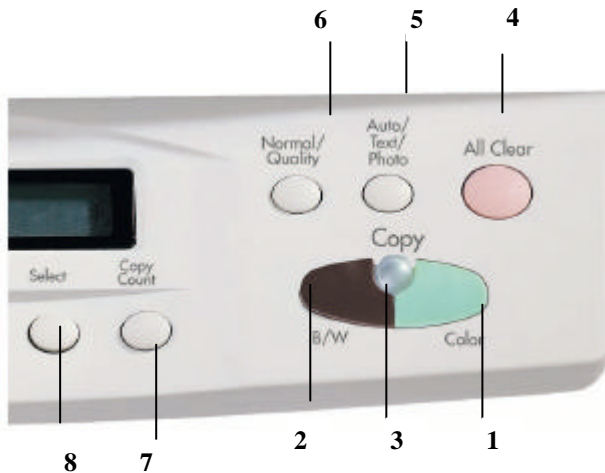
12. Message Display window: Display current settings.

13. Light/Dark: Lighten or darken your image.

Increase level of brightness or darkness by the (▲) button.

Decrease level of brightness or darkness by the (▼) button.

14. Color Intensity: Intensify the image copied or scanned.

Increase level of color intensity by the (▲) button.

Decrease level of color intensity by the (▼) button.

15. Reduce/Enlarge: Reduce, enlarge or auto zoom your original document.

Press to select the preset ratios: 100%, 115%, 122%, 141%, 200%, 400%, Auto, 25%, 50%, and 86%.

Choose your desired ratio or adjust the ratio in 1% increment by the (▲) or (▼) button.

Auto: Automatically scale your original document to fit your output paper.

16. Media Type: Press to select your output paper type, eg. Plain paper, Transparency,
Glossy, or Premium (for ink jet printer).

17. Power Saving: Press to enter power saving status.

Tips:

To use other settings than the one displayed in the Message Display window, simply repress the button of that setting to select other options.

Note:

(1). An item message in the Message Display Windows ending with a "∗ " means the last setting.

(2). The default settings are: A4, Normal Print Quality, 100% ratio, 1 copy.

IMPORTANT!

PRINTER MEMORY

To make good use of DS610CF, it is recommended to install at least 4 MB of memory in your printer. If you want to print your document using Quality mode - 600 dpi as your Copy Quality mode, you need to add more RAM for your printer as using this feature requires more processing time and memory.

See the following chart for printer memory recommendations.

It is strongly recommended that you refer to the following table to ensure a successful color copy.

Copy Quality	Document Size	Min. Printer Memory
Normal	Letter Size	16 MB
	Legal Size	32 MB
Quality	Letter Size	32 MB
	Legal Size	64 MB

If there is not enough memory in your printer, you may probably encounter the following results:

1. The printer does not print.
2. The print quality is bad.

3.2 BEFORE MAKING COPIES

DS610CF provides three paper sizes, A4, letter, and legal. Check or select the paper size to match your paper supply to ensure smooth operations.

To check or select paper size,

1. Press the Paper Size button. The Message window displays "Size:A4   *" (default).   If your current paper supply is A4 size, you can skip the following steps. Otherwise, please do the following steps.

2. Repress ▲ **or** ▼ button. The Message window displays "Letter ".

   - If your current paper supply is letter size, please press the Select button. The Message window now displays "Size:Letter   *".   This means you have successfully changed the default size to letter.
   - If legal size is your current paper supply, please repress the ▲ **or** ▼ button. The Message window displays "Size: Legal   ". Press the Select button to change the default size to Legal.

➢ **Note:**

To return to your custom setting saved by the Select button, quickly press and release the "All Clear" button.

Each time when you press the "All Clear" button for 5 seconds, the DS610CF automatically returns to the factory default setting.

3.3 MAKING SIMPLE COPIES

The Operating Steps:

1. Place your original face down on the document glass.
2. Press the Copy button. The Message window displays "Copy…" and the Ready LED is flashing.
3. Within a few seconds, the copying is done. The Message window then displays "1 Copy @100%" and the Ready LED is now steadily on until next task.

3.4 MAKING COPIES WITH COPY FEATURES

3.4.1 MIRROR FUNCTION

This function allows you to horizontally flip the copied image as if the image were reflected in a mirror.

The Operating Steps

1. Place your document face-down on the document glass.
2. Keep on pressing Menu button till the message, "Mirror: off",appears.
3. Press the ▲ **or** ▼ button to get the message, "Mirror: on".
4. Press Copy button.The printout shows the original image is flipped horizontally as if it were reflected in a mirror.

Mirror function is off   Mirror function is on

3.4.2 ENLARGING OR REDUCING YOUR ORIGINAL

Like a normal copier, the DS610CF also features auto enlargement/reduction function to resize your original.

The Operating Steps:

1. Place your document face-down on the document glass.
2. Press the "Reduce/Enlarge" button, the Message Window displays "Ratio:100%".
3. Repress the button to see more options. For example, if you need 150% enlargement, select "141%" then press the "▲" button to increase the percentage to 150 in 1% increment.
4. Press the Copy button. And then the printout shows enlargement of 150% of your original.

Ratio:100%   Ratio: 150%

➢ **Note:**
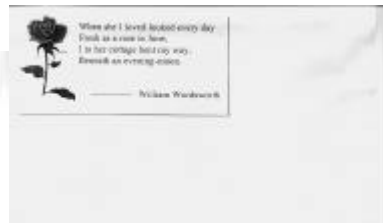
- Another option to reduce your original is to firstly repeat the enlargement or reduction steps 1 to 3 and then press the "▼" button to decrease the percentage in 1% increment.
- The maximum magnification rate is 400% while the minimum reduction rate is 25%.

3.4.3 AUTO ZOOMING YOUR ORIGINAL

Auto Zoom is a convenient function to resize your original without giving additional thought to whether the magnification or reduction will be larger than the existing paper size set on the DS610CF.

The Operating Steps:

1. Repeat the above Enlargement Step 1 & 2.
2. Repress the "Enlarge/Reduce" button until the Message Window displays "Auto ".
3. Press the Copy button. The printout shows your original automatically scales to your paper size.
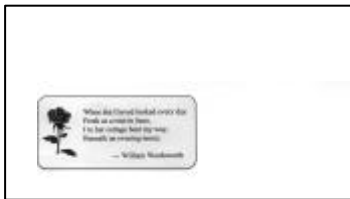
Before Auto Zoom (Ratio:100%)   After Auto Zoom
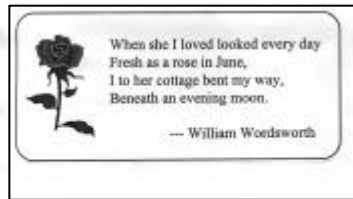
3.4.4 CHANGING YOUR COPY DENSITY

Copy density refers to the degree of darkness which the DS610CF has reproduced. There are times when your original is unsatisfactorily darker or lighter. It is of great advantage to use the density feature to compensate the unsatisfactory original.

The Operating Steps:

1. Place your original face down on the document glass.
2. Press the "Lighter/Darker" button. The Message Window displays the default degree of darkness.
3. Repress the "Lighter/Darker" button to select one of the other levels. Or you may press the "▲" to increase the level, press the "▼" button to decrease the level.
4. Press the Copy button. Your printout shows the darkness or brightness has been compensated.

3.4.5 CHANGING COLOR INTENSITY

Color intensity refers to the saturation of color reproduced by DS610CF . There are times when the saturation of the original image doesn't fit your preference. By making a great use of this function, you could get the most optimal color preference desired.

The Operating Steps:

1. Place your original face-down on the document glass.
2. Press the "Color Intensity" button. The Message Window displays the default saturation.
3. Repress the "Color Intensity" button to select one of the other levels. Or you may press the "▲" to increase the level, press the "▼" button to decrease the level.
4. Press the Copy button.

3.4.6 CHOOSING YOUR COPY QUANTITY

The Operating Steps:

1. Place your original face-down on the document glass .
2. The default copy count is 1. If you need to make 3 copies, for example, press the "Copy Count" button and the Message Window displays "2 copy   @100%".
3. Repress the "Copy Count" button and the Message Window displays "3 copy …".
4. Press the Copy button. After a few seconds, you have 3 copies from your printer.

➢ **Note:**

- Another option to change your copy quantity is to press the "▲" button to increase the number or the "▼" button to decrease the number.
- The maximum copy quantity is 99.

3.4.7 ENHANCING YOUR COPY QUALITY

The DS610CF provides "Quality mode" option to improve your copy quality particularly when your original comes with a photo in it. Quality mode allows your printout to impressively reveals more image(photo) details.

The Operating Steps:

1. Place your document face-down on the document glass.
2. Press the "Normal/Quality" button. The Message Window displays "Normal mode".
3. Repress the "Normal/Quality" button and the Message Window displays "Quality mode".
4. Press the Copy button. The copying begins processing with the Quality mode.

   See following photo/text reproduction between normal copier v.s. DS610CF in quality mode.

   Make copies with a
      normal copier

   Make copies with
      a DS610CF in quality mode

➢ **Note:**

• To proceed copies using quality mode, make sure your printer has at least 4M memory as this requires more processing time.

3.4.8 FOCUS ON PHOTO COPY, TEXT COPY, OR MIXED PHOTO & TEXT COPY

If the content in the original is occupied by photo images only or by photo images with a little text on it, press to select the Photo function to get a photo-concentrated image copy. On the contrary, the Text function helps you get a text-concentrated copy. However, if the proportion of the photo image is almost the same as that of text in the original to be copied, it is recommended to utilize the Auto function from Auto/Text/Photo button in order to get the most optimal printout with photo and text mixed.

The Operating Steps:

1. Place your document face-down on the document glass.
2. Keep on pressing "Auto/Text/Photo" button to select any one of these 3 document-type functions, called Photo, Text, and Auto.
3. Press the Copy button, and the printout shows the best reproduction with the document-type concentration selected.

3.4.9 MAKING COPIES OF A 3D OBJECT

The DS610CF solution improves your copy reproduction significantly and even makes a 3D object copies amazingly clear.

The Operating Steps:

1. Place your 3D object on the document glass.
2. Press the "Normal/Quality" button and the Message Window displays "Normal mode".
3. Repress the "Normal/Quality" and the Message Window displays "Quality mode".
4. Press the Copy button.   Your 3D object copy is done.

The 3D copy
using a normal copier

The amazing 3D copy
using the DS610CF

3.4.10 AUTOMATIC POWER SAVING

The DS610CF features automatic power saving without unplugging the power cable. If you either have not used the DS610CF over a selected power-saving interval (15 minutes, 2 hours, 4 hours, or no power saving) or simply press the Power Saving button , it automatically turns into power saving status.

To resume the ready status, press any one of the button on the Control Panel. The Message Window displays "Warming up…" and then "1 Copy   @100%", the ready status. The Ready LED now turns steadily on.

4. USING DS610CF AS A SCANNER

To run DS610CF at optimum speed, the following minimum requirements are recommended:

- IBM compatible PC 386/486, Pentium or later;
- Microsoft Windows 95/98/Me/2000, Windows NT;
- One printer port available :ECP or EPP(enhanced parallel port);
- 20 Megabytes of available hard disk space for installation;
- 16 Megabytes of RAM (32 Megabytes or higher recommended);
- A video graphics array (VGA) monitor;
- A Microsoft Windows-compatible pointing device (e.g., mouse);
- A CD ROM drive.

4.1 INSTALLATION PROCED URE

Installation procedures of DS610CF driver are as follows:

1. Start Windows 95/98/Me/2000,or NT
2. Insert software CD into your CD ROM drive.

3. Press the Start button, choose RUN, type d:\driver\setup.exe
   (d: the CD-ROM drive in use), and then click O.K. (See
   Figure 3-1,3-2)

4. Follow the on-screen instructions to complete the
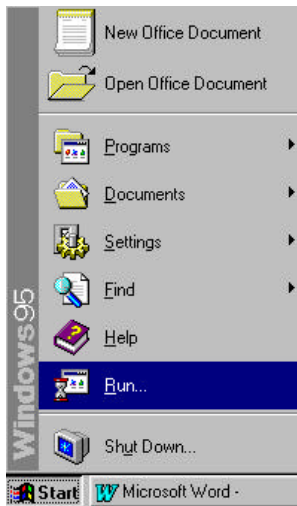   installation.

Fig. 3.1

Fig. 3.2

4.2 DOWNLOADING PRINTER COLOR TABLE

Download compatible printer color table files to DS610CF before making
copy with DS610CF.
Do the following steps to complete downloading printer color tables ,
which are compatible to your printer connected to DS610CF.

1. To Install the Download Utility to a PC ,

1).   Turn off DS610CF and the PC .

2).   Connect DS610CF to a PC by plugging one end of the supplied
cable to the parallel port of the DS610CF and the other end to the
printer port of the PC.

3).   Turn on DS610CF and the PC .

4).   Insert the supplied CD-ROM into your CD-ROM drive and double-
click the **"Color Table Download Kit.exe"** from the **"Color
Table Download Kit"** folder.

5). When the installation screen pops up, click **the "Next" button** and follow the on-screen instructions to install the **Color Digital Copy Device Download Kit** to the PC.
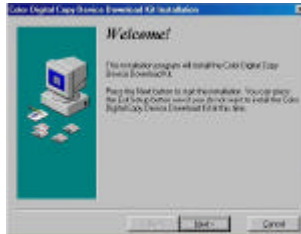
6) Click **the "Finish" button** to complete the installation when the "Installation Completed !" screen appears.
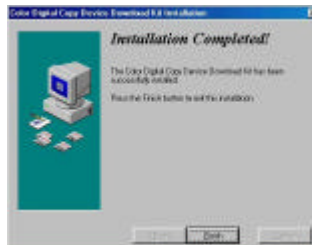
7) Now, the Start program screen appears as follows.

Start program ✕

Do you want to start the Color
Table Download Kit now ?

[Ok]   [Skip]

Click the OK button on the Start program screen to continue
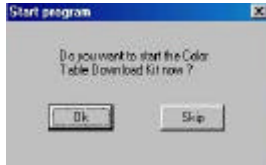downloading the color tables.

Click the Skip button if you want to download the color tables later.

(Note: if you choose the Skip button or your computer system is
Windows 2000, press *Start>Programs>*
Color Table Download Kit > Color Table Download Kit
to indirectly continue downloading the color tables.)

8) A Color Digital Copy Device Download Kit dialog box appears, as
shown below.

If your printer connected to DS610CF is not in the list on the
square box , located on the right -hand side of the dialog box,
please add your printer color tables to DS610CF.

See the next page, describing how to customize color tables
on DS610CF.

2. To customize the printer color tables on DS610CF,

1). Press Start>Programs> Color Table Download Kit > Color Table Download Kit. A Color Digital Copy Device Download Kit dialog box appears. 	3). If the file size of your new table exceeds the memory of the DS610CF, the following warning message will appear. Choose one printer model from the right side and click the **"Delete" button** to delete one table and free some memory.
2). Choose the brand name and model name of your new printer on the left side and click **the "Add" button** to insert the model to the right side. 	4). If the warning message does not appear, choose your new printer model from the right side and click **the "Update" button** to download the color table to the DS610CF.
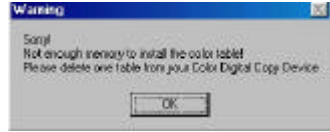
5). When the status bar shows 100%, this means you have successfully downloaded the color table to the DS610CF. 6). Connect the DS610CF to your printer and turn on the printer. 7). On the Control Panel of the DS610CF, press the **"Menu" button** and use the "▼"or " ▲" button to select your new printer model. EPSON C2000 Menu ▼ ▲ Select Copy Count ○ ○ ○ ○ ○	
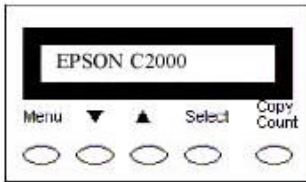
4.3   UNINSTALLING THE DS610CF DRIVER

You can uninstall the DS610CF driver by selecting
Start>Programs>DS610CF and clicking the *Uninstall*
driver icon from DS610CF group.

5. SCANNER OPERATION & DOCUMENT PRINTING

Scanning Images from within an Application (TWAIN)

1. Open your application and choose *Select Source* from the File menu. If the *Select Source* menu options are not available from the File menu, see the user guide of your application to learn how the TWAIN link is used.

2. A dialog box appears containing the different TWAIN sources that you can choose to bring an image into your application.

3. Select *DS610CF /32 Vx.xx* as the source.

4. When you have used the dialog box to select a different source, you will need to select *DS610CF* as the source again before you can reuse the DS610CF.

5. Place the image to be scanned face down on the glass.

6.   From the File menu, select *Acquire*.

7.   The TWAIN user interface will pop up on the screen. Click on the ***Preview*** or ***Scan*** button to get the image.

The TWAIN user interface:
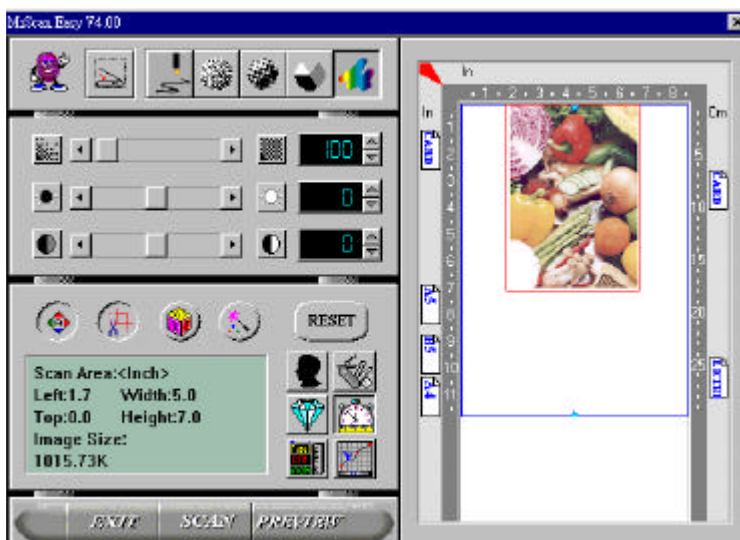
5.1   IMAGE TYPE

The DS610CF provides five image types as explained
below:
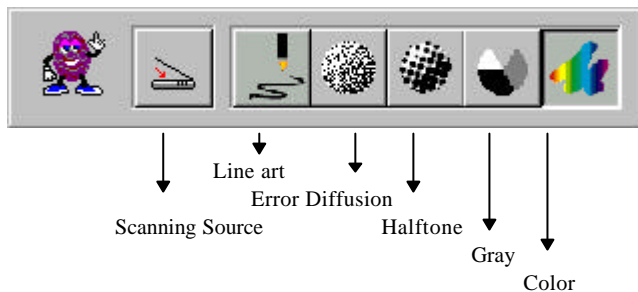
Scanning Source

> Two scanning sources are provided- flatbed as well
> as transparency.

Line art

> Line art presents the image in black and white only
> and there are no intermediate shades of gray in
> between.

Halftone

> In addition to the black and white display, Halftone
> can present a somehow gray shade of image by
> using different size of dots.

Error Diffusion

> While taking up but a minimum storage space, error diffusion gives good image texture and excellent image details.

Gray (Internal 4096 levels of gray scale)

> 12-bit Gray presents a 4096 shades of gray in an image.

Color (Internal 68.7 billion colors)

> The 36-bit True Color internally presents 68.7 billion-color levels with much more tonal range and color-image details.

5.2 SCANNING PARAMETERS & IMAGE CONTROL

— Resolution
— Brightness
— Contrast
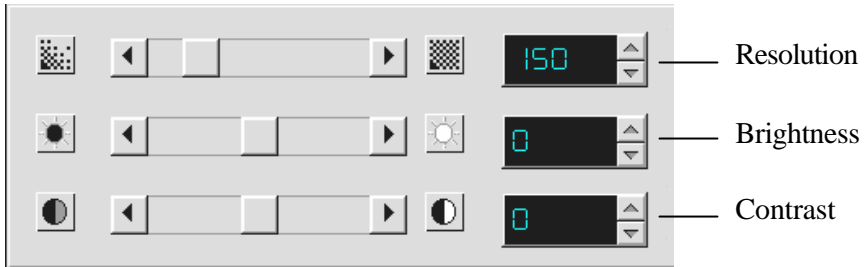
Resolution: The number of dpi (dots per inch) that the DS610CF uses for a *scan*. Usually the greater the number, the higher the resolution. Yet up to a certain level, the resolution will not be visually increased but the disk space will be increased.

Brightness: Adjusts the lightness or darkness of an image. The higher the value, the brighter the image.

Contrast: Adjusts the range between the darkest and the lightest shades in the image. The higher the contrast, the bigger the different gray scales.

Auto Level   Auto Area   Descreen   Color Matching   Reset

Invert
Advance_Settings
Quality Mode
Speed Mode
Pixel/Inch/Cm
Set Gamma

Scan Area:<Inch>
Left:1.7   Width:5.0
Top:0.0   Height:7.0
Image Size:
1015.73K

Image Information
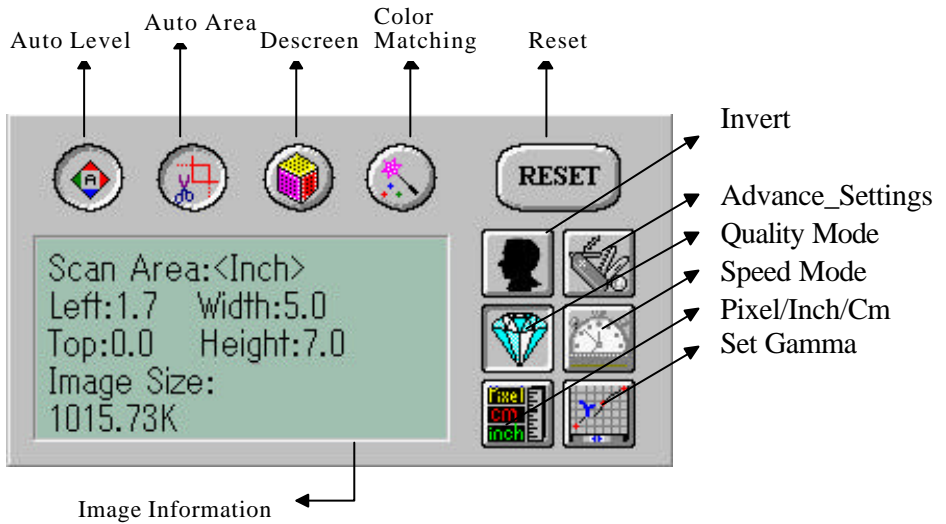
Auto Level: Optimizes the scanned image.

Auto Area: Automatically sets the whole document as the scan area, no matter what its size.

Descreen: Eliminates the Moire patterns commonly found in printed matter.

Before descreen   **After descreen**

Color Matching:

> Adjusts the color quality of the image to make it close to the original. This function uses default parameters to adjust the image.

Reset: Resets the scanning parameters you set.

Invert: The invert command reverses the brightness and the color in the image. For color images, each pixel will be changed into its complementary color at the command of *Invert*.

Advance Settings:

The Advance Settings provide several functions such as Dynamic Background Removal and Color Drop-out.These functions are briefly explained as below:

1). DBR(Dynamic Background Removal) - Apply exclusively when you need to scan as an Lineart image . The DBR function incorporates a few enhanced options to allow you to remove background color to sharpen your text or drawing.

Original(Color picture)   After applying DBR option
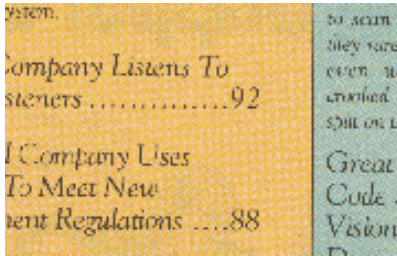
2). Color drop-out - Apply exclusively when you need to
    scan as a black and white image

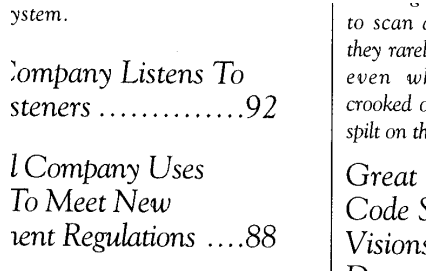The Color drop-out function allows you to remove one of the
R(Red), G(Green), or B(Blue) color or to convert all the color
data into Neutral Gray. For example, if you want to remove
the text or background in blue color, simply check the Blue
Channel then the text or background in blue color will be
removed.   On the other hand, if your original contains various
color data, then check the Neutral Gray to retain all the color
data in gray since removing either one of the red, green, or
blue color will inadvertently affect the rest color data as every
color contains different elements of each of the red, green, and
blue channel. See the result below:

Your original with blue color background

"The trees are in their autumn beauty,
The woodland paths are dry,
Under the October twilight the water
Mirrors a still sky;
Upon the brimming water among the stones
Are nine-and-fifty Swans."

----W.B. Yeats
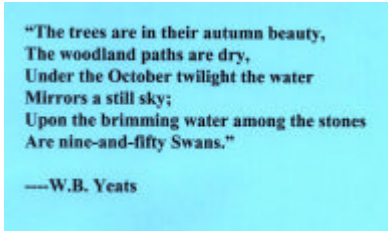
After click the B(Blue) channel

"The trees are in their autumn beauty,
The woodland paths are dry,
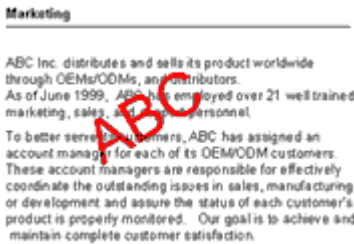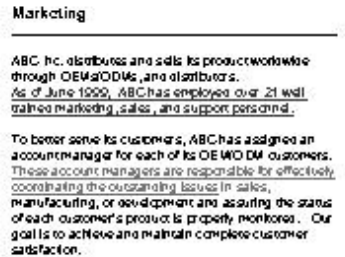Under the October twilight the water
Mirrors a still sky;
Upon the brimming water among the stones
Are nine-and-fifty Swans."

—W.B. Yeats
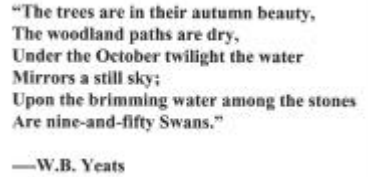
Your original with red watermark

Marketing

ABC Inc. distributes and sells its product worldwide
through OEMs/ODMs, and distributors.
As of June 1999, ABC has employed over 21 well trained
marketing, sales, and support personnel.

To better serve its customers, ABC has assigned an
account manager for each of its OEM/ODM customers.
These account managers are responsible for effectively
coordinate the outstanding issues in sales, manufacturing,
or development and assure the status of each customer's
product is properly monitored. Our goal is to achieve and
maintain complete customer satisfaction.

After click the R(Red) channel

Marketing

ABC Inc. distributes and sells its product worldwide
through OEMs/ODMs, and distributors.
As of June 1999, ABC has employed over 21 well
trained marketing, sales, and support personnel.

To better serve its customers, ABC has assigned an
account manager for each of its OEM/ODM customers.
These account managers are responsible for effectively
coordinating the outstanding issues in sales,
manufacturing, or development and assuring the status
of each customer's product is properly monitored. Our
goal is to achieve and maintain complete customer
satisfaction.

Quality/Speed Mode:

Users can select the mode to perform scanning according to their own need. Select quality mode scanning if your emphasis is on the quality of the scanned image. Or you can select speed mode scanning if you want to speed up the scanning process.

Pixel/Inch/Cm:

> Represents the different measuring systems to be used in each scan.

Set Gamma: Adjusts the midtone of the image yet without losing details of the lightest and the darkest areas at the same time.

Image Information:

> Gives related information of the scanned image.

5.3 SCANNING

Preview: Previews your image roughly and allocates the area to be scanned.

Scan: Executes the scan action.

Exit: Cancels the current job.

Document Size: To designate the size of your document, just click on its icon on the margin of the preview window.

As shown in the figure below, in the Preview window, you can define the area to be scanned by dragging the four cursor auxiliary lines.

Document Size
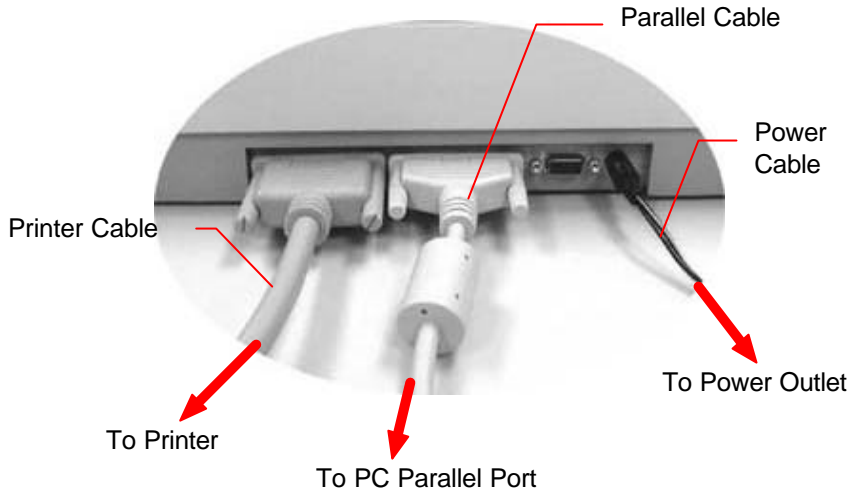
Cursor Auxiliary Lines

Preview Window
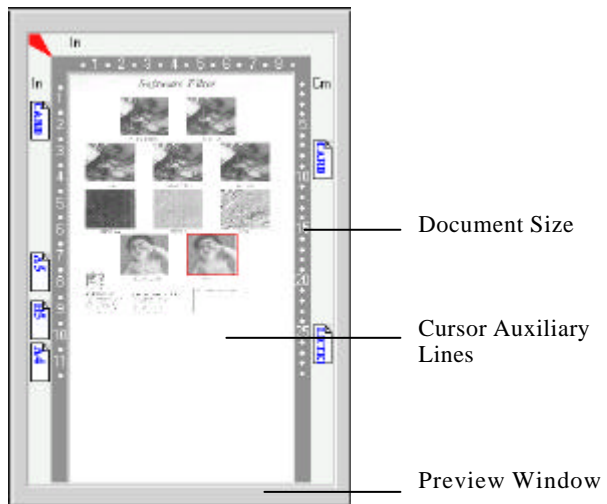
5.4   PRINTING

Figure 5.1 DS610CF Cable Connection

Caution:

**Do not scan and print at the same time.**

6. MAINTENANCE

Cleaning:

The DS610CF is designed to be maintenance-free. However, it still needs to be cleaned occasionally to ensure optimum image quality and performance.

Procedure

1. Open the document cover as shown in Figure 6-1.
2. Dip a soft clean cloth with isopropyl alcohol (95%).
3. Gently wipe the document glass and the white sheet beneath the document cover to remove the dust or any toner particles.
4. Close the document cover. The DS610C3   ow ready for use.
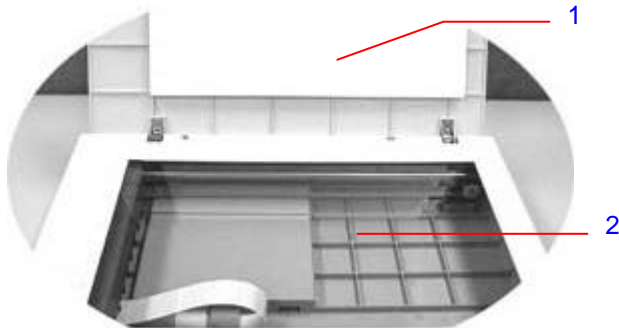
1. Document Cover
2. Document Glass

Figure 6-1 Cleaning

7. TROUBLESHOOTING

If you have any operational problem, please refer to the following troubleshooting hints.

7.1 QUESTIONS AND ANSWERS

Question: Why does the scanned image always come out to be too dark?

Answer: 1) Modify the Gamma setting to 1.8 for your monitor and, when printing, set Gamma to 2.2 for your printer.
2) Use the Brightness setting of the TWAIN user interface to get a brighter image.

Question: The scanning speed of my DS610CF is much slower than that of those installed at other computers. Can I speed it up?

Answer: Set you PC printer port to the ECP or EPP mode from BIOS setting.

Question: Why does my DS610CF scan at a very low speed?

Answer: If you have installed *Works for Windows,* it will install Window Printing System (WPS) in your WIN.INI file. This will take up the printer port time remarkably. You can remove the WPS from your WIN.INI file, as follows:

From:

[MS Text Converters]

MSWorksWin=Works for Windows
2.0,C:\WINDOWS\MSAPPS\TEXTCONV\worksdos.cnv.wps
Works for Dos 2.0=Works for DOS 2.0 MSAPPS\TEXTCONV\workswin.con.wps

To:

[MS Text Converters]

MSWorksWin=Works for Windows 2.0,C:\WINDOWS\MSAPPS\TEXTCONV\worksdos.cnv
Works for DOS 2.0=Works for DOS 2.0, C:\WINDOWS\MSAPPS\TEXTCONV\workswin.con

Question: The printer does not print the documents. Why?

Answer: Pass-through printing may pose a problem for some printers. It is suggested to add a second printer card for printing purpose, or you may call your authorized local dealer for further support.

Question: Does it take long for the DS610CF to initialize itself ?

Answer: If your printer port supports SPP mode only, it takes about two minutes for the DS610CF to initialize itself. If your printer port supports ECP or EPP mode, the initialization speed is much faster, about 20 seconds.

Question: Why my GDI printer does not work with the DS610CF?

Answer: Disable the *Auto Scan* function in the application, then your printer will function in normal working condition.

Question: Why some parallel port devices and software's keypro do not work with the DS610CF?

Answer: The DS610CF do pass-through printing all right , but the pass-through printing may not work if you connect the parallel port with devices other than printer. Therefore, if you would like to connect some parallel port devices other than printer, please do not connect them to the same parallel port that the DS610CF currently uses. It is suggested to use other parallel ports to connect these devices or keypro. For instance, you can connect the DS610CF to LPT1, and connect other parallel port devices to LPT2. Or you can add a data switch to avoid the problem.

7.2 TECHNICAL SERVICE

Technical support for Avision scanner is provided at the Avision Technical Assistance Centers. Before you contact us, please prepare the following information for a quick solution:

- Scanner serial & revision number (located on the bottom of the scanner);
- Hardware configuration (e.g., your host CPU type, RAM size, free disk space, display card, interface card);
- The name and version of your scanning software application;
- The version of your scanner driver.
- The brand and model name of your printer.

AVISION LABS INC.

6815 Mowry Ave. Newark CA 94560, USA
TEL: +1 (510) 739-2369
FAX: +1 (510) 739-6060
Web Site: http://www.avision.com
E-mail: support@avision-labs.com

AVISION INC.

No. 20 Creation Rd. 1, Science-Based Industrial Park,
Hsinchu 300, Taiwan, R.O.C.
TEL: +886 (3) 578-2388
FAX: +886 (3) 577-7017
Web Site: http://www.avision.com.tw
E-mail: service@avision.com.tw

8.   SPECIFICATION

Copier specification

Optical Resolution	600x600dpi
Enhanced Resolution	9600x9600dpi
Copy Area	Max. 8.5"x 14.0" (Legal size)
Copy Features	Zooming from 25%~400% Auto Zooming
Printer Supported	PCL, PostScript, GDI, Esc/p BJC capable printer
Printer Interface	IEEE 1284 (bi-directional) ECP/SPP/EPP
Power Source	100 - 240V, 50 - 60 Hz
Power Consumption	< 20 W
Physical Dimension	477 x 356 x 98mm (18.8" x 14.1" x 3.9")
Weight:	3.9kg (8.5 lbs)

ADF specification

Dimension	448 x 290 x 192 mm
Weight	1.4 kgs
Speed	10 PPM (page per minute) (mono mode)
Paper tray capacity	25 pages
Document size	Max: Legal size (8.5" x 14")
	Min: 4.5" x 5.5"
Document thickness	0.07~0.15 mm

EC Declaration of Conformity

According to EN45014

Manufacturer's Name:　　　Avision Inc.

Manufacturer's Address:　　No. 20 Creation Rd. 1,
　　　　　　　　　　　　　　Science- Based Industrial Park,
　　　　　　　　　　　　　　Hsinchu 300, Taiwan, R.O.C.

declare that the product

Model Number **:**　　　　　DS610CF

conforms to the following Product Specifications:

Emission:　　　　　　　　EN 50081-1 (1992)
　　　　　　　　　　　　　　EN 55022 (Class A)
　　　　　　　　　　　　　　(Conducted Radiated) (1994)

Immunity:

　　　　　　　　　　　　　　EN 60555-2 (Harmonics) (1987)
　　　　　　　　　　　　　　EN 60555-3 (Flicker) (1987)
　　　　　　　　　　　　　　EN50082-1 (1992)
　　　　　　　　　　　　　　IEC 1000-4-2 (ESD) (1995)
　　　　　　　　　　　　　　IEC 1000-4-3 (RS) (1995)
　　　　　　　　　　　　　　IEC 1000-4-4 (EFT/Burst) (1995)
　　　　　　　　　　　　　　IEC1000-4-5(SURGE) (1995)

9. DS610CF AUTOMATIC DOCUMENT FEEDER(ADF) USER'S GUIDE

The DS610CF Automatic Document Feeder (ADF) is a very convenient addition to your current DS610CF. With the ADF, you can automatically copy or scan up to 25 pages at a time.

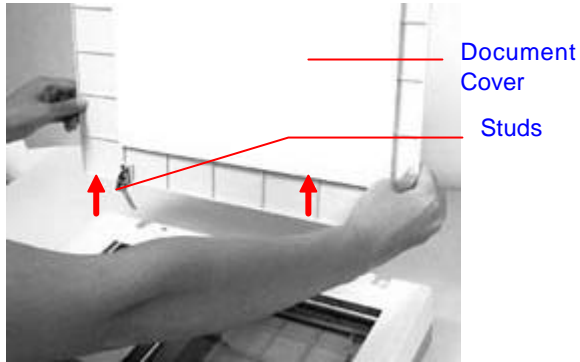## 9.1 INSTALLING THE ADF

9.1.1 UNPACK THE ADF

1. ADF Document Cover
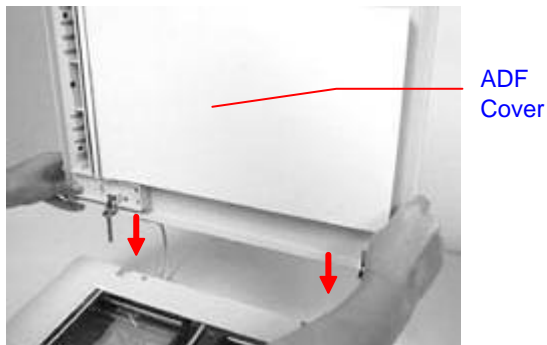
2. ADF Paper Tray

3. ADF Paper Support
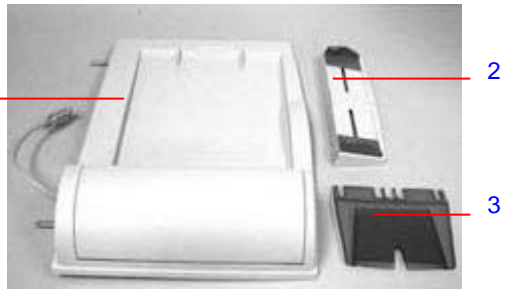
9.1.2 INSTALLING THE ADF

1. Turn off your DS610CF.
2. Disconnect the power cable.
3. Remove the document cover by opening the cover and lifting the studs from the hinge holes at the rear of the DS610CF.

Document Cover

Studs

*Note: Please store the document cover on a flat surface in a safe place.*

4. Hold the ADF document cover and insert its studs to the hinge holes at the rear of the DS610CF.

ADF Cover

5. Insert the notched corners of the ADF Paper Support to the clip-joints on the ADF Paper Tray.

Paper Tray

Paper Support
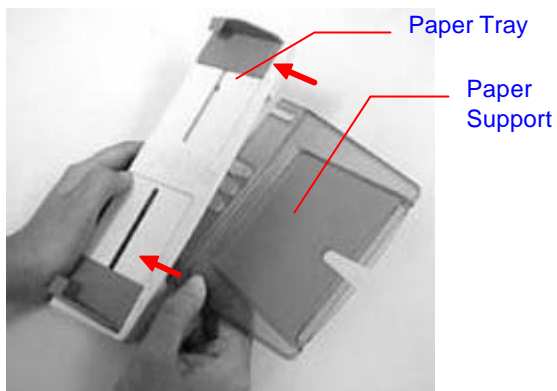
6. Insert the notched corners of the ADF Paper Tray into the clip-joints on the ADF document cover.
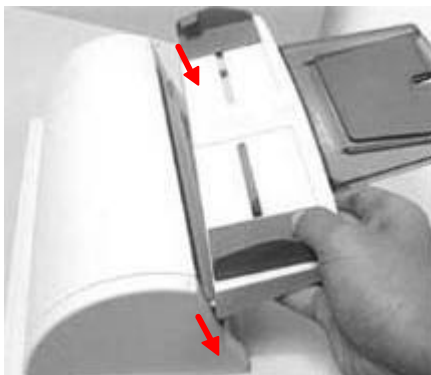
9.1.3 UNLOCKING THE DS610CF

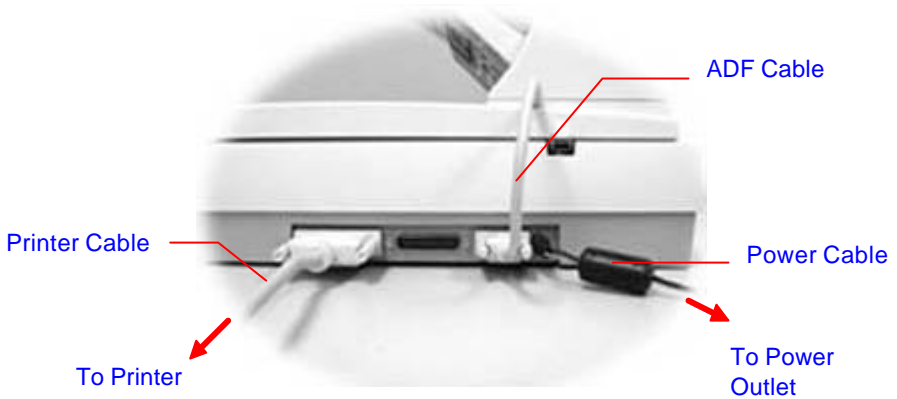Slide the Lock Switch on the bottom of the DS610CF to unlock the scanning unit.

1. "Shipping" Position   2. "Use" Position

9.1.4 CONNECTING THE CABLES

9.1.4.1 Connecting DS610CF to work as a Copier

Connect the ADF cable, the power cable, and the printer cable (not included) respectively.

ADF Cable

Printer Cable

Power Cable

To Printer

To Power Outlet

9.1.4.2 Connecting DS610CF to work as a Scanner

Connect the ADF cable, the power cable, the parallel cable, and the printer cable (not included) respectively.

Parallel Cable

ADF Cable

Printer Cable

Power Cable

To Printer

To PC Parallel Port

To Power Outlet
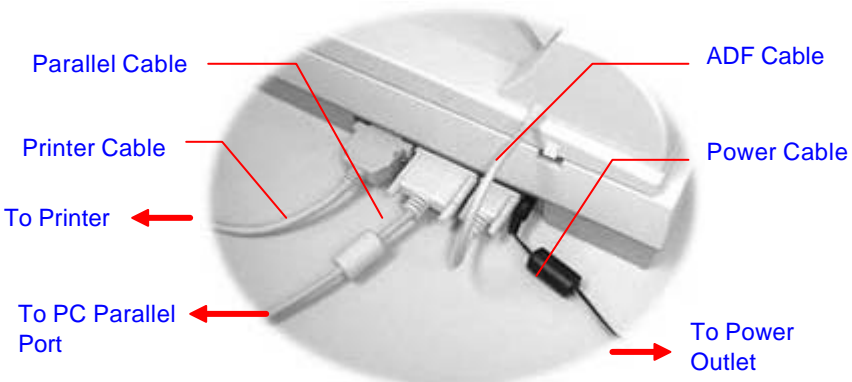
9.2 USING THE ADF

9.2.1 FANNING PAPER BEFORE USAGE

Standard paper should be fed easily.   To prevent occasional paper jams when automatically feeding multi-page documents, fan the paper before loading.
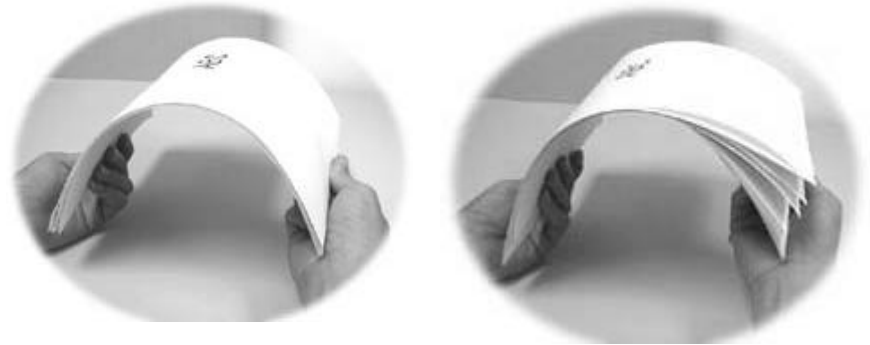

Paper which can not be properly fed by the ADF:

- Paper with clip or staple attached;
- Paper with ink not totally dry;
- Paper with inconsistent thickness, such as envelopes;
- Paper with wrinkles, curls, folds or tears;
- Coated paper;
- Carbonless paper;
- Paper narrower than 4.5" or wider than 8.5"; Shorter than 5" or longer than 14"
- Paper thinner than 0.07mm; thicker than 0.15mm
- Items other than papers, such as cloth, metal or OHP film;
- Notched paper;
- Paper with an odd (non-rectangular) shape;

.

Please use the flatbed to copy or scan documents that cannot be fed by the ADF.

9.2.2 LOADING THE PAPER

Place your document with the text face up and make the top of the page to the left side as shown below.

Feed Direction

Top of Page
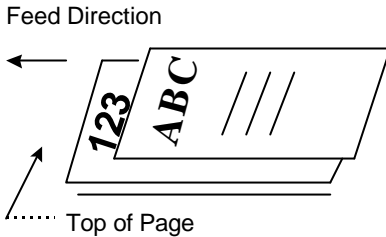
9.2.3 STARTING YOUR FIRST COPY

9.2.3.1 Copying Multi-page Document

After the installation of the ADF unit is completed and you have properly placed a stack of your document on the ADF Paper Tray, just a touch of the Copy button on the Control Panel of DS610CF, then your task is done in a minute.
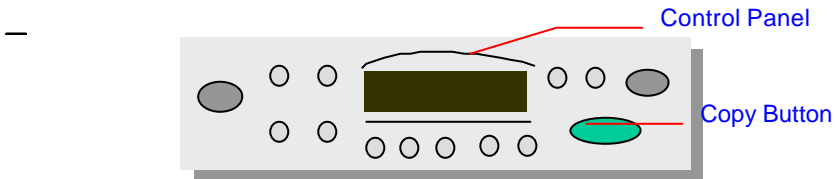
Control Panel

Copy Button

To apply copy features displayed on the Control Panel, please refer to the previous section, *Making Copies with Copy Features*.

9.2.3.2 Copying a Single Page

To copy a single page, you can place your document either on the ADF Paper Tray or on the document glass(recommended). To copy a single page through flatbed, please do the following:

1. Remove any pages from the ADF Paper Tray.
2. Raise the ADF document cover.
3. Place your document face-down on the document glass. Observe that the top edge of your original near the document alignment as marked by a triangle.
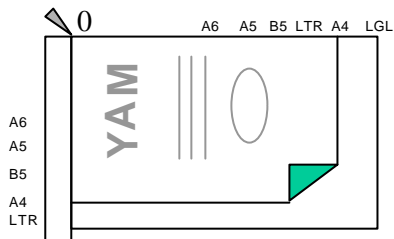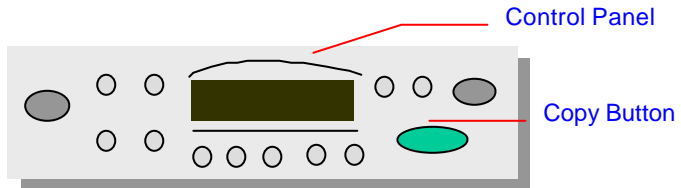

Your Original   Correct Positioning

4. Close the ADF document cover.
5. Press the Copy button on the Control Panel of DS610CF. In a minute, your copy is done.


To apply copy features displayed on the Control Panel, please refer to the previous section, *Making Copies with Copy Features*.

9.2.4 STARTING YOUR FIRST SCAN

9.2.4.1   Scanning Multi-page Document

1. Place your document with the text face up on the ADF Paper Tray.
2. Start your image editing application by clicking the Start button on the task bar and select the name of the application.
3. Choose Acquire from the File menu and click Select TWAIN Source, for example, please select DS610CF V.X.xx. (The command to open the TWAIN source may vary due to different application. Please refer to the user manual of your TWAIN application.)
4. In a minute, the TWAIN window will be displayed.
5. Press the Source button to switch the scanning source to ADF at the top of the TWAIN window.
6. Press the Preview button to get an initial scanned image at a low resolution to allocate your selected scan area.
7. Open the ADF document cover to take out the document and then position it on the first page of the document on the ADF Paper Tray.
8. Finally press the Scan button on the bottom of TWAIN window or the Scan button on the Control Panel.

The Preview Button

The Scan Button
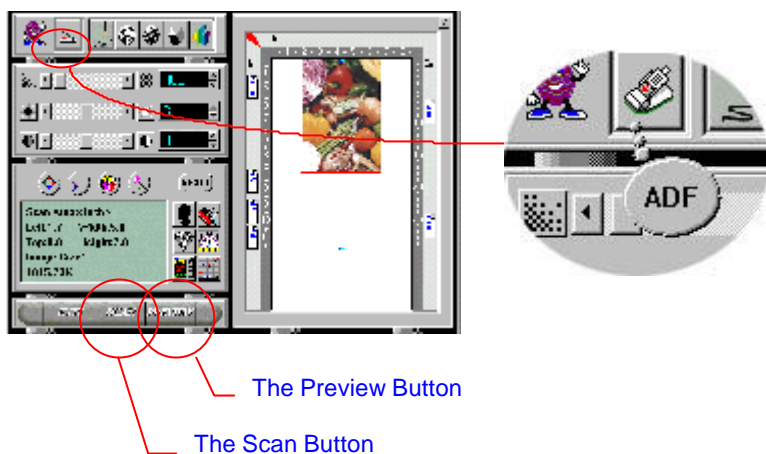
9.2.4.2 Scanning a Single Page

To scan a single page, you can place your document either on the ADF Paper Tray or on the document glass(recommended). To scan a single page through flatbed, please do the following:

1. Raise the ADF document cover.
2. Place the page on the document glass. Observe that the top edge of your original near the document alignment as marked by a triangle.
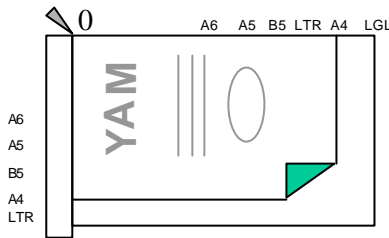

Your Original   Correct Positioning

3. Close the ADF document cover.
4. Start your image editing application by clicking the Start button on the task bar and select the name of the application.
5. Choose Acquire from the File menu and click Select TWAIN Source, for example, please select DS610CF V.X.xx. (The command to open the TWAIN source may vary due to different applications. Please refer to the user manual of your TWAIN application.)
6. In a minute, the TWAIN window will be displayed.
7. Select Flatbed source at the top of the TWAIN window.
8. Press the Preview button to get an initial scanned image at a low resolution image to allocate your selected scan area. Finally press the Scan button on the bottom of TWAIN window or the Scan button on the Control Panel.
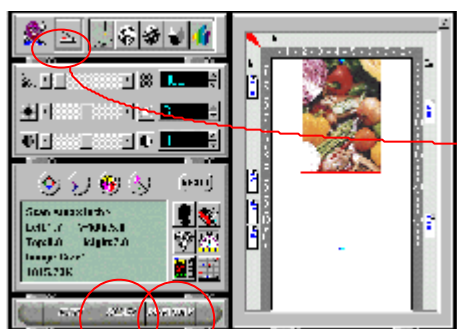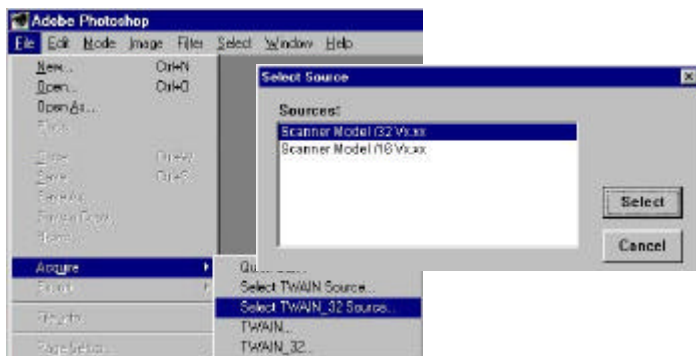
The Preview Button

The Scan Button

9.3 MAINTAINING THE ADF

9.3.1 CLEANING THE ADF

The DS610CF is designed to be maintenance free. However, it still needs to be cleaned occasionally to ensure optimum image quality and performance.

From time to time the pad assembly and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the DS610CF may not feed documents smoothly. If this occurs please follow the cleaning procedures to return your Scanner to its original state.

The cleaning procedures:

1. Moisten a cotton swab with isoprophyl alcohol (95%).
2. Gently open the ADF front cover. Wipe the feeding rollers by moving the swab from side to side. Rotate the rollers forward with your finger and repeat the above cleaning procedures until the rollers are clean. Be careful not to snag or damage the pick springs.
3. Wipe the pad in the direction from top to bottom. Be careful not to hook the pick springs.
4. Close the ADF unit. Your Scanner is now ready for use.

Feeding Roller

ADF Pad
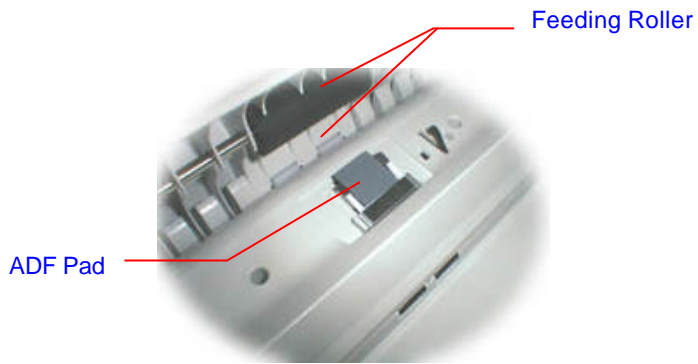
9.3.2 REPLACING THE ADF SNAP-IN PAD MODULE

After scanning approximately 20,000 pages through the ADF, the pad may be worn out and you may experience problems with document feeding. In this case, it is highly recommended to replace the pad module with a new one. For ordering the pad module, please consult your nearest dealer and follow the procedure below to replace it.

Disassembling Procedure

1.   Gently open the ADF front cover to the left.

2.   Press both arms of the ADF snap-in pad module inwardly with your two fingers to pull out the ADF snap-in pad module.

ADF Pad

Assembling Procedure

1.   Take out the ADF pad module from the box.

2.   Press both arms of the ADF snap-in pad module inwardly with your two fingers

3.   Place it into the holes until it snaps into place.

9.4 HOW TO CLEAR THE PAPER JAM

In the event of a paper jam, follow the procedures below to remove the paper:

1. Turn the DS610CF off by disconnecting the power cable.

2. Gently open the ADF front cover to the left.

3. Carefully pull the paper out of the ADF unit.

4. Close the ADF front cover.

5. Turn on the DS610CF by reconnecting the power cable. Your DS610CF is now ready to use.