

SC-215

User's Manual

(D/N: 250-0369-E Version 1.0)

Minolta-QMS, Inc

P/N: 800695-001A

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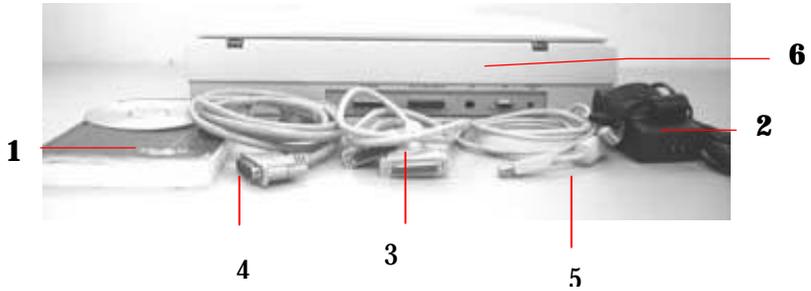
1. INTRODUCTION

Congratulations on your purchase of a MINOLTA - QMS SC-215.

The SC-215 produces better printing quality and is freer from maintenance, than traditional copy machines. Its high copy/scan quality, maintenance-free operation and affordability make SC-215 the best convenience copier solution for the 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 ensure quality copying and scanning.

Figure 1-1 shows how the SC-215 is packed. Please check all the items against Figure 1-1. If anything is missing or damaged, please contact your vendor immediately for replacement.



1. Utilities & Documentation CD
2. Power Adapter/Cord
3. Parallel Cable for Computer Connection
4. Parallel Cable for Printer Connection
5. USB Cable
6. SC-215

Figure 1-1 SC-215 Packing

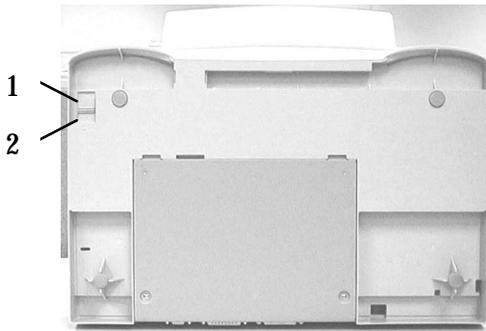
2. SC-215 INSTALLATION

2.1 PRECAUTIONS

- Keep the SC-215 out of direct sunlight. Direct exposure to the sun or excessive heat may cause damage to the unit.
- Do not install the SC-215 in a humid or dusty place.
- Be sure to use the proper AC power source.
- Place the SC-215 securely on an even, flat surface. Tilted or uneven surfaces may cause mechanical or paper-feeding problems.
- Retain the SC-215 box and packing materials for shipping purposes.

2.2 UNLOCKING THE SC-215

To protect the scanning head from damage during shipment, the SC-215 is designed with a lock switch beneath the main unit. Therefore, before using the SC-215, it is required that you unlock the SC-215 by moving the lock switch to the *Use* position. (See Figure 2-1)



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

Figure 2-1 Unlocking the SC-215

2.3 CONNECTING THE CABLE

2.3.1 CONNECTING THE SC-215 TO A PRINTER TO WORK AS A COPIER

Connect the power cable and signal cable as shown below.

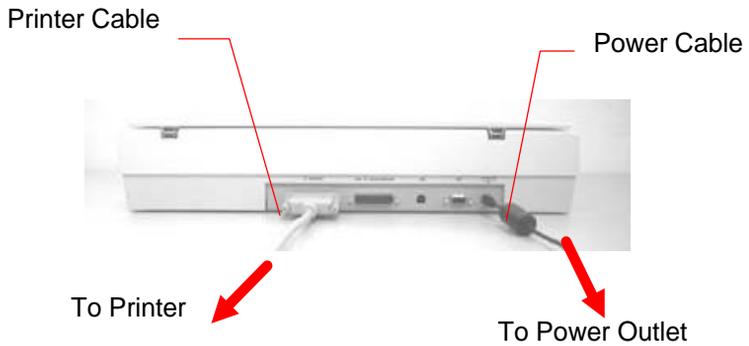


Figure 2-2 Connecting the SC-215 to a printer

2.3.2 CONNECTING THE SC-215 TO A WINDOWS WORKSTATION TO WORK AS A SCANNER

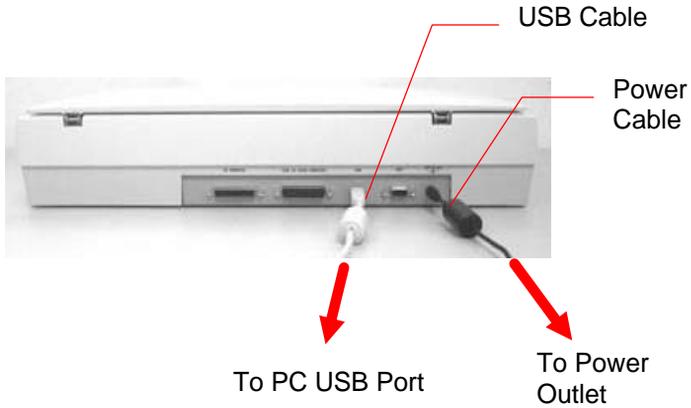
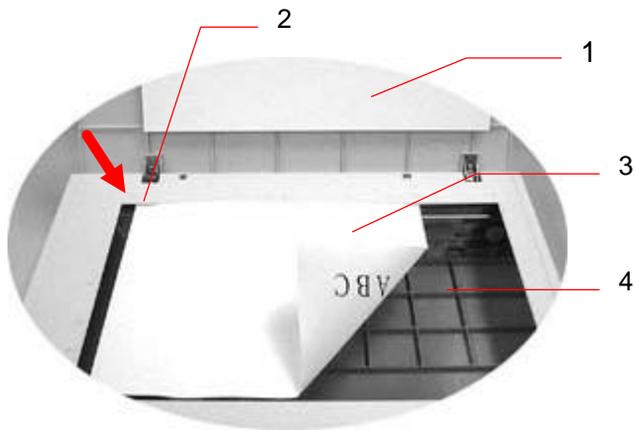


Figure 2-3 SC-215 Cable Connection

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 THE SC-215 AS A COPIER

To use the SC-215 as a copier, it is recommended that you follow these tips:

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

Note:

- (1). An item message in the Message Display Windows ending with a “* “ means the current setting.
- (2). The default settings are: A4, Normal Print Quality, 100% ratio, 1 copy.

PRINTER MEMORY

To realize the full functionality of the SC-215, it is recommended to install adequate memory in your laser printer. If you want to print your document using Quality mode as your Copy Quality mode, you may 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.

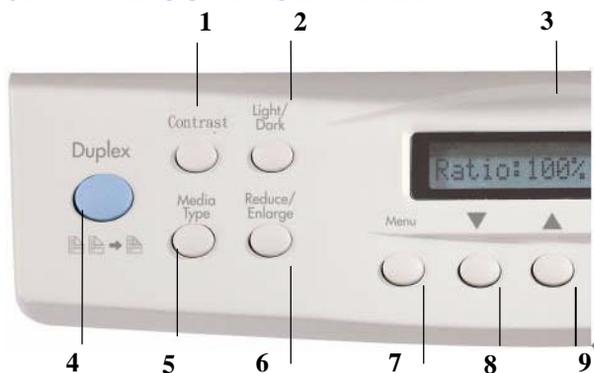
It is strongly recommended that you refer to the following table to ensure a successful color copy.

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

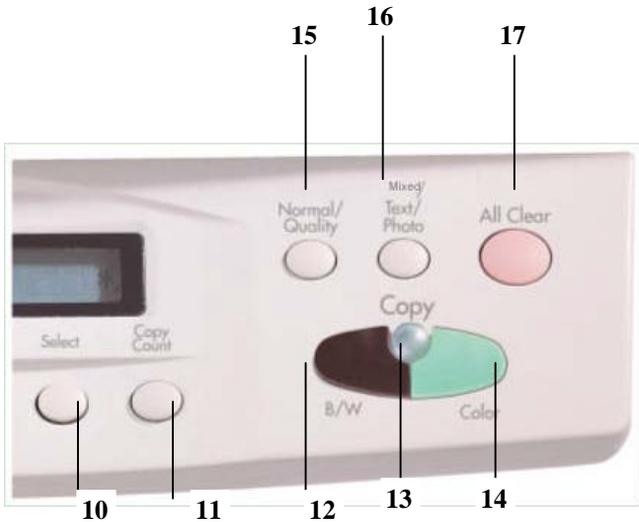
If there is not enough memory in your printer, you may probably encounter the following results:

1. The printer may be unable to print the job.
2. The print quality may not be desirable.

3.1 THE CONTROL PANEL



- 1. Contrast:** Used to adjust the copied /scanned image contrast .
Increase the level of color contrast with the (▲) button.
Decrease the level of color contrast with the (▼) button.
- 2. Light/Dark:** Lighten or darken your image.
Increase the level of brightness or darkness with the (▲) button.
Decrease the level of brightness or darkness with the (▼) button.
- 3. Message Display window:** Display the current settings.
- 4. Duplex:** Press to automatically duplex print.
- 5. Media Type:** Press to select your output paper type, for example, Plain paper, Transparency, or Glossy.
- 6. Reduce/Enlarge:** Reduce or enlarge your original document.
Press to select the preset ratios: 100%, 115%, 122%, 141%, 200%, 400%, 25%, 50%, and 86%. Choose your desired ratio or adjust the ratio in 1% increments with the (▲) or (▼) button.
- 7. Menu:** Select paper size, printer type, Mirror function, power-saving interval, Collate, Fit-to-A3, Input Tray, or Output Bin, depending on various printer models.
- 8. ▲:** Go to the previous item displayed in the Message Display window or increase the value of the numeric entries.
- 9. ▼:** Go to the next item displayed in the Message Display window or decrease the value of the numeric entries.



10. **Select:** Press to determine a printer to be used after updating the printer setting with the Menu button.
(Note: It is not necessary to press the Select button for other settings on the Menu button.)
11. **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.
12. **Copy(B/W):** Press to start a black-and-white copy .
13. **Power/Copy LED:** The LED indicator turns green when power is on and turns flashing during copying.
14. **Copy(Color):** Press to start a color copy.
15. **Normal/Quality:** Select your Copy quality: **Normal** (300 dpi), or **Quality** (600 dpi).
16. **Mixed/Text/Photo:** Press to respectively concentrate on photo, text, or mixed copying.
17. **All Clear:** Press at least 5 seconds to reset to the factory default settings. Press less than 5 seconds to reset to the user settings, which are the settings saved with the Select button.
During copying, press to abort copying.

3.2 BEFORE MAKING COPIES

The MINOLTA-QMS SC-215 supports multiple paper sizes from A4/letter to legal on the flatbed and through the Automatic Document Feeder (ADF). The SC-215 also supports enlarging a copy (from letter/legal/A4) to larger sizes (such as A3 and ledger) based upon the printer selected. Check or select the paper size to match your paper supply to ensure smooth operation.

To check or select paper size,

1. Press the Menu button and select "Size" item. The Message Window displays "A4" as a default setting. If your current paper supply is A4 size, you can skip the following steps. Otherwise, please do the following steps.
2. Press the ▲ or ▼ button until the desired paper size appears. When the desired paper size message is shown in the Message Display window, this update paper-size setting is done. In order to help you distinguish every new setting you make from the other preset settings, press the Select button and a "*" sign will appear on the right-hand side of the displayed message.
 - For example, if you want Letter as your paper size, press the Select button when "Size: Letter" appears in the Message Display window. A "*" sign appears on the right side of the displayed message to distinguish the desired paper size, Letter, from the others.

3.3 MAKING SIMPLE COPIES

The Operating Steps:

1. Place your original face-down on the document glass.
2. Press the Copy button(either Color or Black and White).The Message Window displays “Copying...”, and the Ready LED flashes.
3. Within a few moments, the copying is done. The Message Window then displays “1 Copy @100%” and the Ready LED remains on until the 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. Press the Menu button until the message, "Mirror: off", appears.
3. Press the ▲ or ▼ button to display the message, "Mirror: on".
4. Press the 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

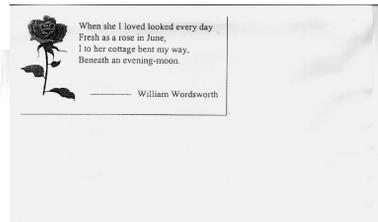
Like most copiers, the SC-215 also features an enlargement/reduction function to resize your original.

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. Press the button again 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. The printout shows an enlargement of 150% of your original.



Ratio:100%



Ratio: 150%

Note:

- Another option to enlarge or reduce your original is to first 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 CHANGING YOUR COPY DENSITY

Copy density refers to the degree of darkness that the MINOLTA-QMS SC-215 has reproduced. Use the density feature to compensate for an 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. Press the “Lighter/Darker” button again to select one of the other levels. Or you may press the “▲” to increase the level, or press the “▼” button to decrease the level.
4. Press the Copy button. Your printout shows that the original’s darkness or brightness has been adjusted.

3.4.4 CHANGING CONTRAST

Contrast refers to the range between the darkest and lightest portions of the image. The greater the contrast, the more the difference between the lighter and darker shades in the image. Use this option to increase or decrease contrast.

The Operating Steps:

1. Place your original face-down on the document glass.
2. Press the “Contrast” button. The Message Window displays the default contrast.
3. Press the “Contrast” button against to select one of the other levels. Or you may press the “▲” to increase the level, or press the “▼” button to decrease the level.
4. Press the Copy button.

3.4.5 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. Press the “Copy Count” button again and the Message Window displays “3 copy ...”.
4. Press the Copy button. 3 copies will print.

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.

3.4.6 ENHANCING YOUR COPY QUALITY

The MINOLTA-QMS SC-215 provides a “Quality mode” option to improve your copy quality. This is particularly useful when the original is a photograph. Quality mode allows your printout to reveal more image (photo) details using a higher resolution.

The Operating Steps:

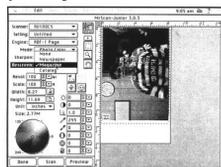
1. Place your document face-down on the document glass.
2. Press the “Normal/Quality” button. The Message Window displays “Normal mode.”
3. Repress the “Normal/Quality” button and the Message Window displays “Quality mode.”
4. Press the Copy button. The copying begins processing with the Quality mode.

See the following photo/text reproduction comparison between normal copier and the SC-215 in quality mode.



Make copies with a normal copier

the difference being its 16.7 million colours against 256 (grey).
Both its high performance and low price, the AV 100CS is set to become one of the leading Min. products of 1997.
Mat Tour
Avision AV 100CS
Press image quality on a par with colour. Fastback coating twice the price. • Front loader • Attraction software • Small footprint
Costs Less the 40000! Convenience of the Visuprint PaperNet
Manufacturer: Avision Inc.
Price: £249
Support: One year return-to-base warranty, free telephone helpline



Make copies with a SC-215 in quality mode

the difference being its 16.7 million colours against 256 (grey).
Both its high performance and low price, the AV 100CS is set to become one of the leading Min. products of 1997.
Mat Tour
Avision AV 100CS
Press image quality on a par with colour. Fastback coating twice the price. • Front loader • Attraction software • Small footprint
Costs Less the 40000! Convenience of the Visuprint PaperNet
Manufacturer: Avision Inc.
Price: £249
Support: One year return-to-base warranty, free telephone helpline

Note:

- To make copies using Quality Mode, make sure your printer has adequate memory as this requires more processing time.
- Copies made using QualityMode take longer to print than copies made using Normal Mode.

3.4.7 ORIGINAL CONTENT

MIXED/TEXT/PHOTO COPIES

Content can vary widely. The SC-215 can be configured to maximize the copy operation based upon the content of the original.

If the original is a photograph or document that contains photographic images with minimal text, select the Photo function to get the best desired output.

The Text function optimizes the copy if the original is mostly text.

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 that you use the mixed function from the Mixed/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. Press the "Mixed/Text/Photo" button to select any one of these 3 document-type functions: Photo, Text, or Mixed.
3. Press the Copy button. The printout shows the best reproduction with the document-type concentration selected.

3.4.8 MAKING COPIES OF A 3D OBJECT

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. Press the “Normal/Quality” button again 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 3D copy
using the SC-215

3.4.9 AUTOMATIC POWER SAVING

The SC-215 features automatic power saving without unplugging the power cable. If you have not used the SC-215 over a selected power-saving interval (15 minutes, 2 hours, or 4 hours), it automatically switches to power saving status.

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

The SC-215 can also have the power saving mode disabled entirely.

To change the SC-215 power saving mode, press the Menu button and select Sleep. Using the "▲" button or the "▼" button, display the setting that you want to select. Once your desired choice is displayed, press the Select button to select your choice.

4. USING THE SC-215 AS A SCANNER

To operate the SC-215 at optimum speed as a scanner, the following minimum requirements are recommended:

- IBM compatible PC (Pentium or later)
- Microsoft Windows 98/Me, Windows 2000, Windows XP
- One USB port available
- 100 Megabytes of available hard disk space for installation
- 32 Megabytes of RAM (64 Megabytes or higher recommended)
- A video graphics array (VGA) monitor
- A Microsoft Windows-compatible pointing device (for example, a mouse)
- A CD-ROM drive

4.1 INSTALLATION PROCEDURE

Installation procedures of the SC-215 driver and utilities are as follows:

1. Start Microsoft Windows.
2. Insert the Utilities and Documentation CD-ROM into your CD-ROM drive.
3. The CD-ROM will autolaunch on most systems. However, if your system does not support autolaunching CD-ROMs, from the Start button, choose RUN, type x:\driver\Setup.exe (x: the CD-ROM drive in use), and then choose OK. (See Figure 4-1,4-2)
4. Follow the on-screen instructions to complete the installation. (You may also need to follow the instructions shown on the Add New Hardware Wizard to let Windows identify your new USB device before or after the driver installation.)

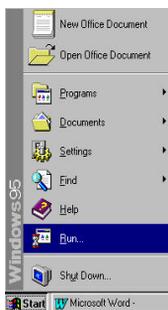


Fig. 4.1



Fig. 4.2

4.2 DOWNLOADING A PRINTER COLOR TABLE

The SC-215 supports up to six color tables simultaneously and has the latest color tables already installed for the following printers: **magicolor 2200/2210, magicolor 2200 DeskLaser, magicolor 6100/6110 , magicolor 3100, and magicolor 330.**

Note: The download utility distributed to the Japanese market excludes three of the six printer color tables. The three printer color tables available to the users in Japan are magicolor 2200, magicolor 2200 DeskLaser, and magicolor 3100

To Install the Download Utility and import the available printer color table files to your computer,

- 1). Turn off your SC-215, and your computer.
- 2). Connect the SC-215 to your computer by plugging one end of the supplied USB cable to the USB port of the SC-215 and the other end to the USB port of your computer.
- 3). Turn on the SC-215 and your computer.
- 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. (If your CD automatically launches, select the menu option “**SC-215 Color Table Download Utility.**”)



Fig. 4.3

- 5). Follow the instructions on the screen to complete installation of the Download Utility and importing all printer color table files to your PC. When all of these installation steps are finished, the SC-215 Download Utility screen pops up, as shown below.

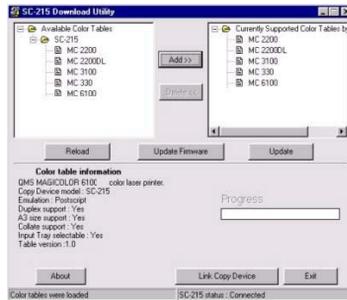
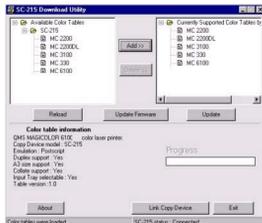


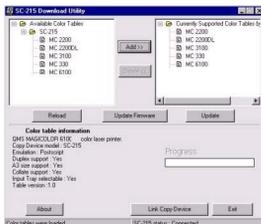
Fig. 4.4

4.3 TO CUSTOMIZE COLOR TABLES ON SC-215

- 1). Choose Start>Programs>SC-215 Download Utility>SC-215 Download Utility. The SC-215 Download Utility screen appears as below.



- 2). Choose the brand name and model name of your new printer on the left side and click the "Add" button to move the model to the right side.



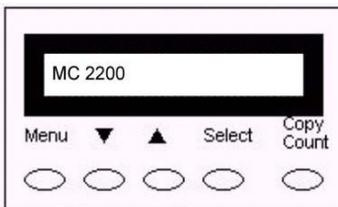
- 3). If you attempt to load more than 6 color tables to the SC-215, the following warning message appears.



Choose one printer model from the right side and click the "**Delete**" button to delete one table and free some memory.

- 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 your SC-215.

- 5). When the status bar shows 100%, this means you have successfully downloaded the color table to the SC-215.
- 6). Connect the SC-215 to your printer and turn on the printer.
- 7). On the Control Panel of your SC-215, press the "Menu" button until a printer model like **MC2200** is visible. Press the **Select** key. Use the "▲" or "▼" button until the printer model that the SC-215 will be connected to is visible. Press the **Select** key.



Updating the SC-215's firmware :

From time to time, the SC-215 will be upgraded to have a greater compatibility range, such as supporting more printers, including a variety of color tables. Therefore, downloading your SC-215's firmware occasionally from our website (www.minolta-qms.com) is recommended.

To update the firmware,

1. Download the new firmware directly to the SC-215 Download Utility folder.
2. Click the Update Firmware button on the Download Utility screen.

4.4 UNINSTALL THE SC-215 DRIVER

You can uninstall the SC-215 driver by selecting Start>Programs>Minolta-QMS SC-215 and clicking the *Uninstall* driver icon from the SC-215 group.

5 SCANNER OPERATION & DOCUMENT PRINTING

1. Open your TWAIN scanning application.
2. Pull down the File menu and choose **Select Source**.

If the Select Source command is not available in the File menu, see your application's user's guide to determine how the TWAIN link is used.

A dialog box with a list of scanning sources appears.

3. Select **SC-215/32Vx.xx**.

You need to select the source only once, unless you want to choose another scanner.

4. Place the document to be scanned in the ADF or on the document glass.

5. Pull down the File menu and choose **Acquire**.

A dialog box containing scanning features appears.



6. Select the scanning method you want to use in the **Scan Method** drop-down menu.
7. Select the mode you want to use for your scans in the **Image Type** drop-down menu.
8. Select a scanning resolution in the **Resolution** drop-down menu.
9. Select the settings for the scanning features (for example, Sharpen, Descreen, etc.) that you want to use.
10. Click on the **Preview** or **Scan** button to preview or scan your document(s).

6. USER INTERFACE

6.1 SCAN METHOD



Select how you want to scan in the **Scan Method** drop-down menu.

Simplex/One-page—use this setting if you are using the automatic document feeder (ADF) to scan a single-page document at a time.

Simplex /Multi-page—use this setting if you are using the automatic document feeder (ADF) to scan batches of single-page documents at a time.

Flatbed—use this setting if you are using the flatbed to scan one page at a time.

6.2 DETERMINING YOUR RESOLUTION



A good control of the resolution results in satisfactory detail of an image that scans. The resolution is measured by dots per inch (dpi). Normally, the greater the dpi number, the higher the resolution and the larger the image file size.

Be aware that greater resolution takes more time, memory, and disk space; therefore, up to a certain degree of dpi, the resolution will not visually be improved. On the contrary, it makes your files more unmanageable.



Tips:

1. *For your information, an A4-size color image scanned at 300 dpi at True Color mode consumes approximately 25 MB of disk space. A higher resolution (over 600 dpi) is recommended only when you need to scan a small area at True Color mode.*
2. *You can also refer to the following table to choose a proper resolution for your image.*

<i>Scanner Settings Application</i>	<i>Image Type</i>	<i>Resolution (dpi)</i>
<i>File, Fax, E-mail Your Document</i>	<i>LineArt</i>	<i>200</i>
<i>View, Copy, Edit Your Color Picture</i>	<i>True Color</i>	<i>100</i>
<i>OCR* Your Document</i>	<i>LineArt</i>	<i>300</i>

**OCR: Stands for Optical Character Recognition, the process of converting an image to a text format.*

6.3 SELECTING A PROPER IMAGE TYPE



Select the image type through the mode from the **scanner user interface** for your own purpose.

Each image type is described as follows:

Line art (Black and White)

LineArt presents the image in black and white only, and there are no intermediate shades of gray in between. That means each pixel of the image is 100% black or 100% white. LineArt is the best choice of image type if you want to scan text, or a pen or ink drawing. Since only 1-bit of black or white information is required for each **pixel***, the disk space required for saving lineArt image is only about 1/24 of that required to save 24-bit true color images.



Lineart Image

**Pixel: A combination of two words: picture and element, A pixel is a single dot on a computer display or in a digital image.*

Halftone

Halftone simulates gray scale by using different size dots. Particularly when you view the image at a certain distance, it looks very closely like a gray scale image, yet it consumes less disk space. Halftone is the picture that we usually see in newspapers or magazines. Since Halftone is one type of black and white image, the disk space required to save a halftone image is 1/24 of that required to save a 24-bit true color image.



Halftone Image

8-Bit Gray

A single-channel image consists of at least 256 shades of gray. An 8-bit scanner produces a grayscale image with 1024 shades of gray between pure black and pure white. Choose this option if you are scanning black-and-white photographs.

With 8 bits of color information per pixel, the file size of an image is eight times larger than a *Black and White* image and 1/3 the size of a *24-Bit Color* image.



Gray Image

8-Bit Color

A *8-Bit Color* image provides 256 color hues in the image. The file size of a 256 color image is 1/3 the size of a *24-Bit Color* image.



8-Bit Color Image

24-Bit Color

A *24-Bit Color* image consists of three 8-bit color channels. The red, green, and blue channels are mixed together to create a combination of one billion colors which give a more true-to-life quality to the image. Choose *24-Bit Color* if you are scanning color photos.



24-Bit Color Image

6.4 ENHANCING YOUR IMAGE



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

Increase your Brightness



6.5 CONTRAST



Adjusts the range between the darkest and the lightest shades in the image.

The higher the contrast, the bigger the different gray scales.

Increase your Contrast



6.6 INVERT IMAGE



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

Original



After Invert



6.7 MIRROR



Click on the **Mirror** button to reverse the image (create a mirror image).



Mirror function is off



Mirror function is on

6.8 PREVIEW AUTO-AREA



Clicking on the **Preview Auto-Area** button automatically crops the preview scan area to the previewed document. This will then be the cropping area for all of the scanned documents.

6.9 PAPER SIZE



Select a size on the **Paper Size** list of frequently used scan sizes to perform an immediate selection of your scan size.

Card - 4 x 2.5 in
Photo - 5 x 3.5 in
Photo - 3.5 x 5 in
Photo - 6 x 4 in
Photo - 4 x 6 in
B5 - 18.2 x 25.7 cm
A5 - 14.8 x 21.0 cm
A4 - 21.0 x 29.7 cm
Letter - 8.5 x 11 in
Legal - 8.5 x 14 in
Scanner Maximum

6.10 UNITS



The **Units** button indicates the measuring system that is in use (Inch, cm, or Pixel).

6.11 DESCREEN



Click on the **Descreen** button to access a drop-down menu that allows you to specify the type of document you are scanning in order to eliminate the moiré pattern* commonly found in printed matter. You can specify *Newspaper*, *Magazine*, or *Catalog*.



Before Descreen



After Descreen

*Moiré pattern—an undesirable pattern resulting from the incorrect screen angle of the overprinting halftone.

6.12 SHARPEN



Click on the **Sharpen** button to access a drop-down menu that allows you to specify a level to sharpen the scanned image. You can specify a Sharpen setting of *Light*, *More*, *Heavy*, or *Extra Heavy*.

6.13 COLOR ADJUSTMENT



Click on the **Color Adjustment** button to enable the button for the **Hue, Saturation, and Lightness** feature.

NOTE: The **Advanced Settings** button must be enabled in order to use the **Hue, Saturation, and Lightness** feature.

6.14 AUTO LEVEL



Click on the **Auto Level** button to add shadow to reveal more details in an image.

6.15 ADVANCED SETTINGS



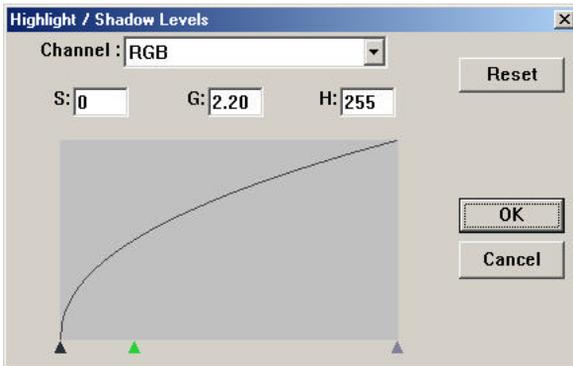
Click on the **Advanced Settings** button to view the advanced settings buttons for Highlight / Shadow, Curves, Color Balance, Hue / Saturation / Lightness, Color Drop-out, and Custom Settings (six buttons on the right side of the TWAIN dialog box).

Highlight / Shadow



This feature is available when *8-Bit Gray*, *8-Bit Color*, or *24-Bit Color* is selected in the **Image Type** drop-down menu. Highlight refers to the lightest point in a scanned image; shadow refers to the darkest point.

Click on the **Highlight / Shadow** button to access the Highlight / Shadow Levels dialog box. You can type values in the text boxes or you can place the mouse cursor over the line, click the right mouse button, and drag the line to specify the values you want.



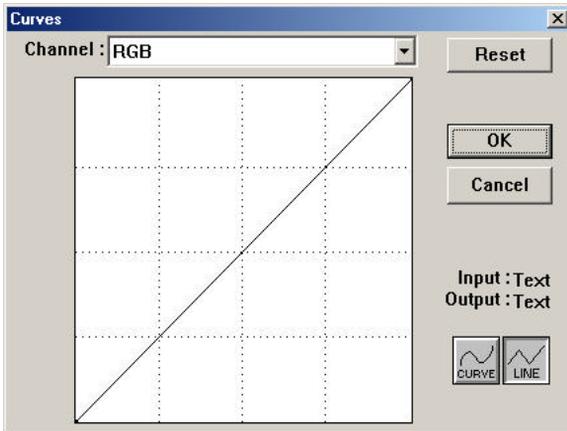
Use the **Highlight** and **Shadow** settings together to extend the range of color and reveal more details in a color image.

Curves



When you select the **Curves** button, a dialog box appears that allows you to adjust the midtone of the image without losing details in the lightest and darkest areas.

Select the *Curve* or *Line* button, depending on whether you want a curved or an angled setting. Place the mouse cursor over the line, click the right mouse button, and drag the line to set the curve you want.

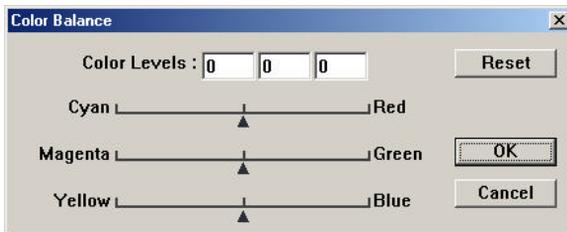


Color Balance



When you select the **Color Balance** button, a dialog box appears that allows you to adjust the color of the image so that it comes close to that of the original.

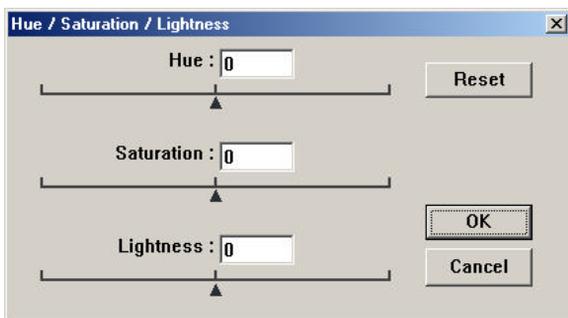
The default parameters are used to adjust the image. You can type values in the *Color Levels* text boxes or you can drag the sliding arrow under the color.



Hue / Saturation / Lightness



Click on this button to adjust the hue, saturation, and lightness of an image. This button is enabled when the **Color Adjustment** button is selected. You can type values in the text boxes or you can drag the sliding arrow under each item.



Hue—specify a value in the **Hue** box to adjust the hue up to 360° by clicking on the desired color on the color wheel or selecting a setting on the drop-down menu.

Note that the level of intensity for a color simultaneously changes when the hue adjustment is made.

Saturation—specify a value in the **Saturation** box to adjust the saturation level of the color. The level of saturation indicates whether the color is pale or rich.

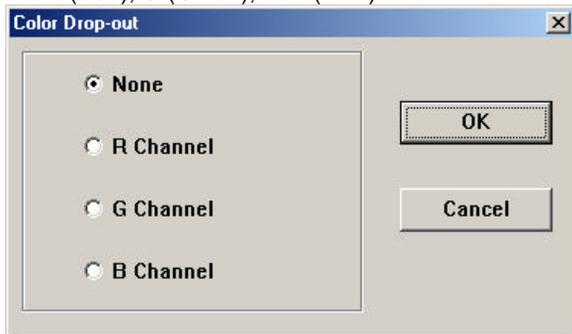
Lightness—specify a value in the **Lightness** box to adjust the color strength.

NOTE: These options are available only when the **Color Adjustment** button is enabled.

Color Drop-out



This feature is available when *Black and White*, *Halftone*, or *8-Bit Gray* is selected on the **Image Type** drop-down menu. Click on the **Color Drop-out** button to access a dialog box that allows you to choose to remove the R (Red), G (Green), or B (Blue) color channel while scanning.



For example, if your image contains red text or a red background, choose **R channel** (red) to remove the red text or red background.

This feature is applicable only for black-and-white and grayscale images. Make sure that you have selected a black-and-white or grayscale image type (on the **Image Type** drop-down menu) when you use this option.

Tip

Increasing the brightness after removing one of the color channels will make the image clearer.

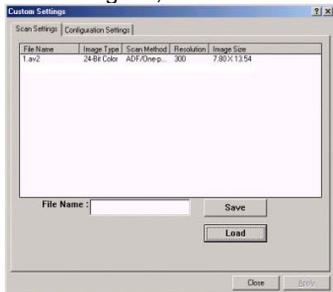
Custom Settings



Click on the Custom Settings button to access a dialog box where you can save your scan settings and configuration settings. There are two tabs: Scan Settings and Configuration Settings.

Scan Settings

The Scan Settings tab allows you to save your scanning feature settings in a file, load an existing file, or delete an existing file.



Saving a scan settings file

Type a name for your settings in the **File Name** text box and click on the **Save** button. Your settings will be saved and the file name will appear in the list box.

Using a scan settings file

You can use an existing settings file. Right-click on the file name for the settings you want to use and click on the **Load** button. The settings in the file will automatically be specified in the scanning features dialog box.

Deleting a scan settings file

Right-click on a file name and press the **Delete** button on the computer keyboard to delete the file.

Configuration Settings

The Configuration Settings tab allows you to customize some special settings.



Energy Saving Mode—check the **Enable** box to enable energy savings. You can specify a time delay in the **Minutes** box. Click on the **Apply** button to save the changes.

Hint Setting—check the **Show Hints** box if you want to have flags that show the name of an item appear when you place the mouse cursor on an item in the dialog box. Click on the **Apply** button to save the changes.

6.16 MISCELLANEOUS

Width : Shows the current image width.

Height: Shows the current image height.

Size: Shows the current file size of the scanned image.

Lock scale



Click on this button to fix the output width and height despite the selected scan size.

The scale value automatically changes when you apply this option and simultaneously resize the selected area.

Information



Click on the Information button to access a window that gives you information about the scanner and driver.

Preview: Click on the **Preview** button to scan a document so you can review the scanned image. This allows you to specify an area to be scanned and any scanning feature settings to be used for future scans. When a scanning feature is changed and applied, the Preview image is updated for a real-time view of the change.
You can define the area to be scanned by dragging the cursor lines with the mouse.

Zoom view: Click on the **Zoom view** button to preview a selected area.

Scan: Click on the **Scan** button to scan the area with the specified parameters.

You can define the area to be scanned by dragging the cursor lines with the mouse.

Exit: Click on the **Exit** button to cancel the current job.



6.17 PRINTING

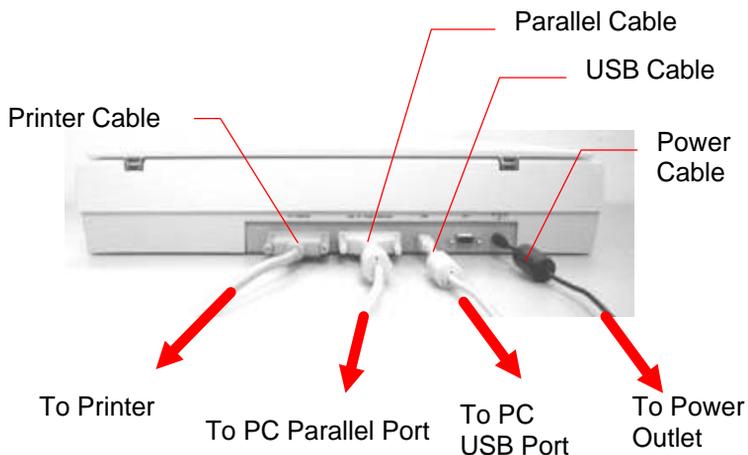


Figure 5.1 SC-215 Cable Connection

Caution:

The image scanned to a PC through the SC-215's USB port can be printed on a printer connected to SC-215 under the condition that the SC-215's PC parallel port is connected to the PC's printer port and the printer is connected to the SC-215's printer port.

Do not scan and print at the same time.

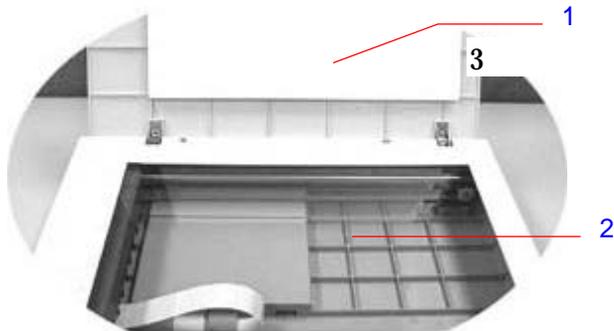
7. MAINTENANCE

Cleaning:

The SC-215 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. Moisten 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 SC-215 is now ready for use.



1. Document Cover
2. Document Glass

Figure 6-1 Cleaning

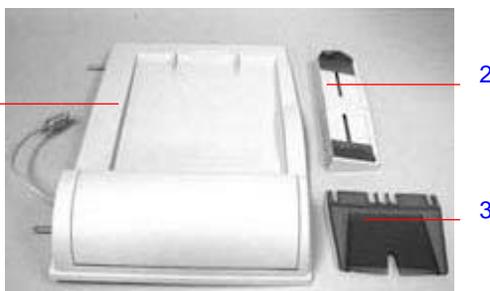
8. SC-215 AUTOMATIC DOCUMENT FEEDER (ADF)

The SC-215 Automatic Document Feeder (ADF) is a convenient addition to your current SC-215. With the ADF, you can automatically copy or scan up to 25 pages at a time.

8.1 INSTALLING THE ADF

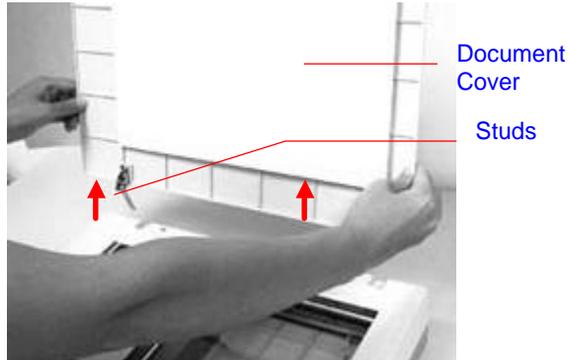
8.1.1 UNPACKING THE ADF

1. ADF Document Cover
2. ADF Paper Tray
3. ADF Paper Support



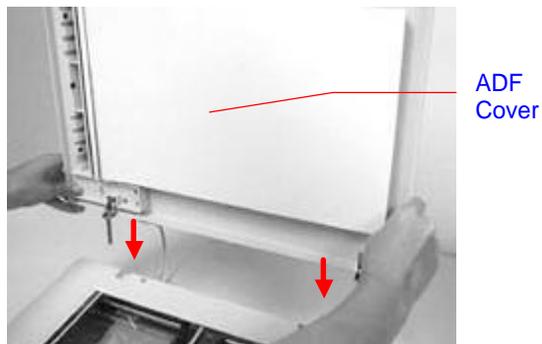
8.1.2 INSTALLING THE ADF

1. Turn off your SC-215. Lock the scanning unit on the back.
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 SC-215.

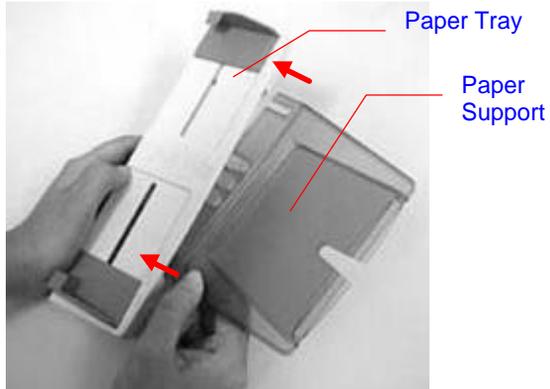


Note: Please store the document cover on a flat surface in a safe place.

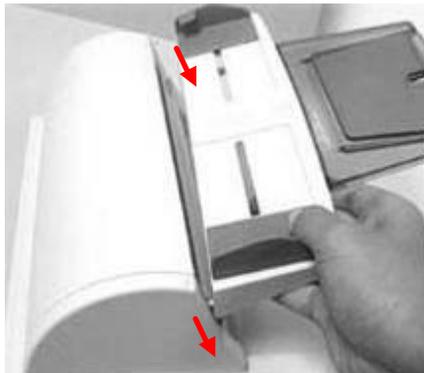
4. Hold the ADF document cover and insert its studs in the hinge holes at the rear of the SC-215.



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

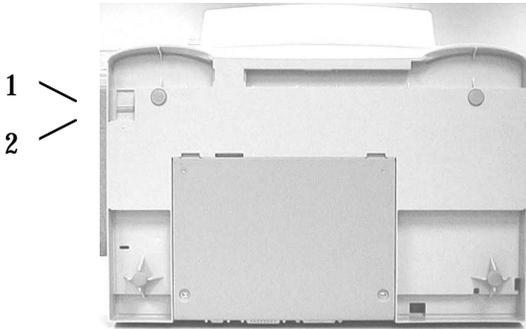


6. Insert the notched corners of the ADF Paper Tray into the clip-joints on the ADF document cover.



8.1.3 UNLOCKING THE SC-215

Slide the Lock Switch on the bottom of the SC-215 to unlock the scanning unit.

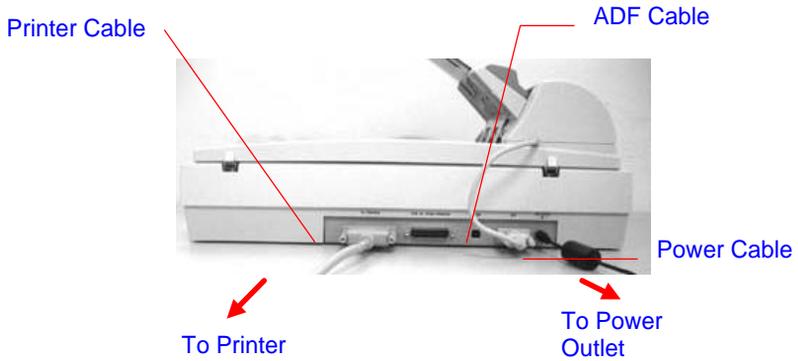


1. "Shipping" Position 2. "Use" Position

8.1.4 CONNECTING THE CABLES

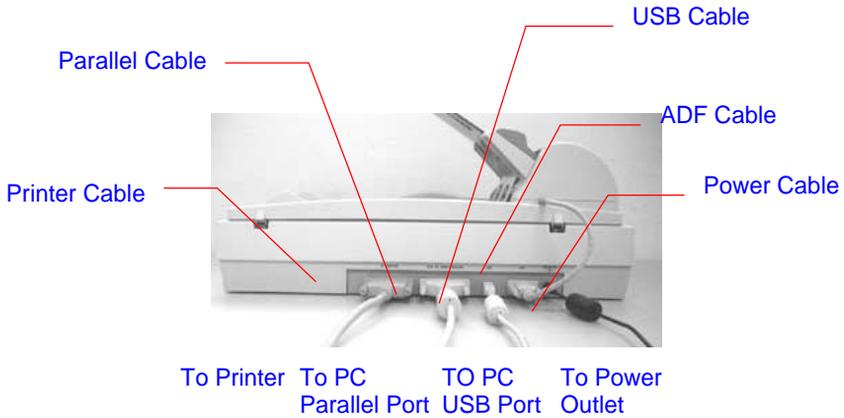
8.1.4.1 Connecting the SC-215 to Work as a Copier

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



8.1.4.2 Connecting the SC-215 to Work as a Scanner

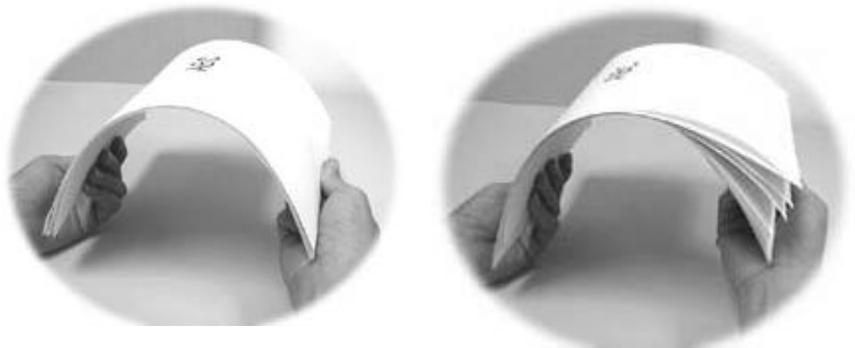
Connect the ADF cable, the power cable, the included USB cable for connection to the computer, and the included parallel printer cable respectively.



8.2 USING THE ADF

8.2.1 FANNING PAPER BEFORE USAGE

To prevent occasional paper jams when automatically feeding multi-page documents, fan the paper before loading.



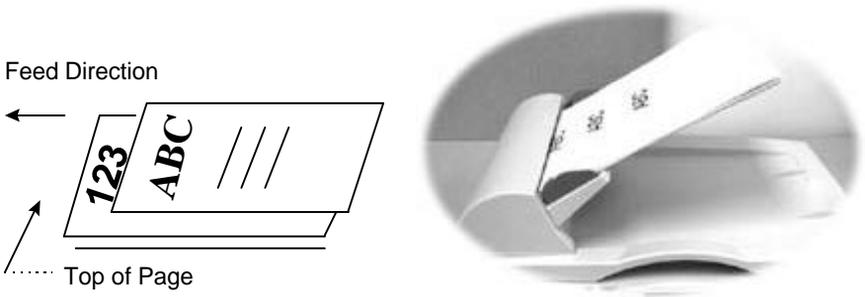
Paper which cannot be properly fed by the ADF:

- 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 or thicker than 0.15mm
- Items other than papers, such as cloth, metal or OHP film
- Perforated paper
- Paper with an odd (non-rectangular) shape

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

8.2.2 LOADING THE PAPER

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



The paper tray capacity is 25 pages.

8.2.3 COPYING & SCANNING WITH THE ADF

8.2.3.1 Copying Multi-page Documents

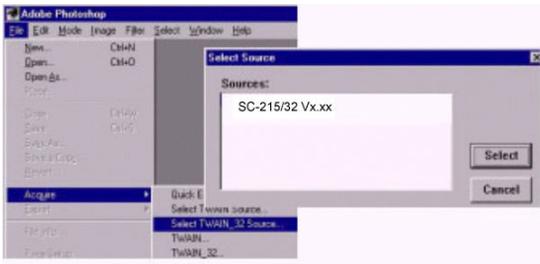
After the installation of the ADF unit is completed and you have properly placed your document on the ADF Paper Tray, press the Copy button on the Control Panel of SC-215.



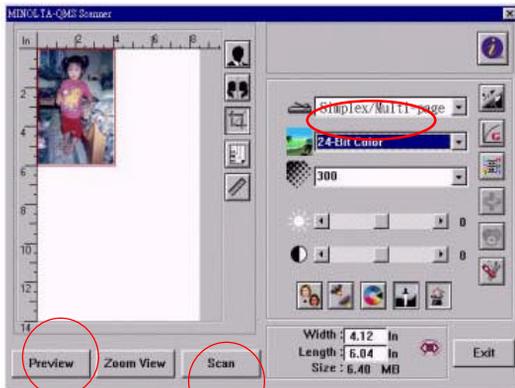
To apply copy features displayed on the Control Panel, please refer to the previous section, *Making Copies with Copy Features* (Section 3.4).

8.2.3.2 Scanning Multi-page Documents

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 SC-215 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.)



4. In a minute, the TWAIN window will be displayed.



5. Press the Source button to switch the scanning source to Simplex/Multi-page at 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. Press the Scan button on the bottom of TWAIN window or the Scan button on the Control Panel.

8.3 MAINTAINING THE ADF

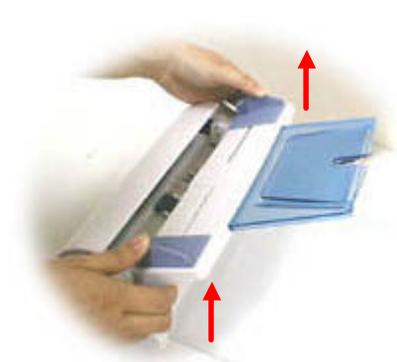
8.3.1 CLEANING THE ADF

The SC-215 is designed to be maintenance free. However, it still needs to be cleaned occasionally to ensure optimum image quality and performance.

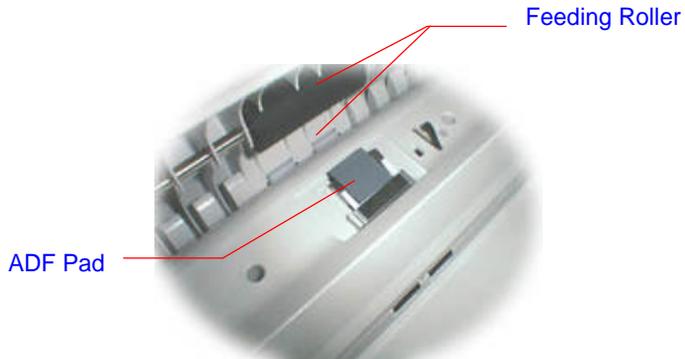
From time to time the pad assembly and feeding rollers may become contaminated with ink, toner particles or paper dust. In this case the SC-215 may not feed documents smoothly. If this occurs please follow the cleaning procedures to return your scanner to its original state.

The cleaning procedures:

1. Moisten a cotton swab with isopropyl 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 from top to bottom. Be careful not to hook the pick springs.
4. Close the ADF unit. Your SC-215 is now ready for use.



8.3.2 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 that you replace the pad module with a new one. To order a pad module, please consult your nearest dealer and follow the procedure below to replace it.

Disassembly Procedure

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

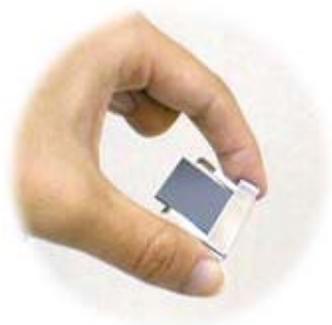


2. Press both arms of the ADF snap-in pad module inwardly with your two fingers to pull out the ADF snap-in pad module.



Assembly Procedure

1. Take the new ADF pad module out of its box.
2. Press both arms of the ADF snap-in pad module inwardly with your two fingers.



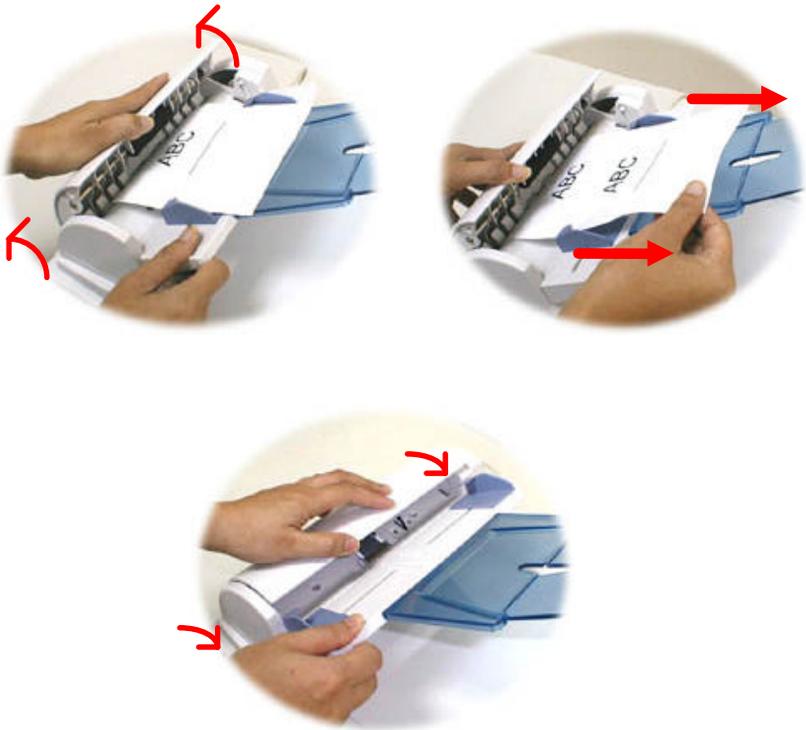
3. Place it into the holes until it snaps into place.



8.4 HOW TO CLEAR A PAPER JAM

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

1. Turn the SC-215 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 SC-215 by reconnecting the power cable. Your SC-215 is now ready to use.



9. TROUBLESHOOTING

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

9.1 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 printer does not print the documents. Why?

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

Question: Why does not my GDI printer work with the SC-215?

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

Question: Why do not some parallel port devices work with the SC-215?

Answer: The SC-215 does support pass-through printing, 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 SC-215 currently uses. It is suggested that you use other parallel ports to connect these devices. For instance, you can connect the SC-215 to LPT1, and connect other parallel port devices to LPT2. Or you can add a data switch to avoid the problem.

9.2 TECHNICAL SERVICE

Technical support for the SC-215 scanner is provided at the MINOLTA-QMS Technical Assistance Centers. Before you contact us, please prepare the following information for a quick solution:

- Scanner serial and revision number (located on the bottom of the scanner)
- Hardware configuration (for example, 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 model name of your printer

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E-mail: support@Minolta-QMS.com

For all other offices and world wide directories, please visit the corporate web site, www.minolta-qms.com, for contact information.

10. SPECIFICATIONS

Optical Resolution	600x600dpi
Enhanced Resolution	9600x9600dpi
Copy Area	Max. 8.5"x 14.0" (Legal size)
Copy Features	Zooming from 25%~400% Auto Zooming
Printers Supported	magicolor 3100 magicolor 2200 magicolor 2200 DL magicolor 6100(not in Japan) magicolor 6100 DL(not in Japan)
Scan Interface	USB
Printer Interface	IEEE 1284 ECP/SPP
Power Source	24V DC
Power Consumption	< 20 W
Physical Dimension	Flatbed unit:476 x 356 x 91 mm ADF unit: 446.5x201x88 mm

Weight:

Flatbed unit: 4.3 kg (9.5 lbs)

ADF unit: 1.4kg(3.1 lbs)

Speed	10 PPM (page per minute) (mono mc
Paper tray capacity	25 pages
Document size	Max: Legal size (8.5" x 14") Min: 4.5" x 5.5"
Document thickness	0.002 "~ 0.006"

EC Declaration of Conformity

According to EN55022 and EN55024

Manufacturer's Name: MINOLTA-QMS, Inc.

Manufacturer's Address: 1 Magnum Pass
Mobile, AL 36618

declare that the product

Model Number : SC-215

conforms to the following Product
Specifications:

Emission: EN 50081-1
EN 55022
EN 61000-3-2
EN 61000-3-3

Immunity: EN 55024
IEC 61000-4-2
IEC 61000-4-3
IEC 61000-4-4
IEC 61000-4-5
IEC 61000-4-6
IEC 61000-4-8
IEC 61000-4-11