User's Guide

SCANNER

EMI Warning

FCC Class B Certification

This device complies with Part 15 of the FCC Rules.

Operation is subject to the following 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.

Warning !

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 communications.

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 the one which the receiver is connected to

(Consult the dealer or an experienced radio/TV technician for help.

Use only shielded cables to connect I/O devices to this equipment.

You are cautioned that changes or modifications not expressly approved by the party responsible

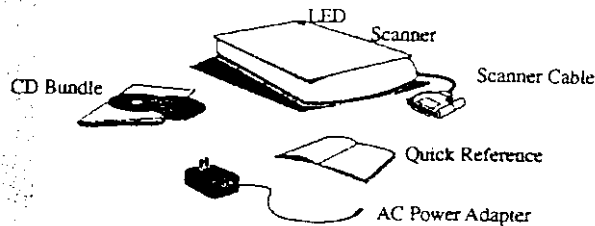for compliance could void your authority to operate the equipment.

この装置は,情報処理装置等電波障害自主規制協議会(VCCI)の基準に基づくクラスB情報技術装置
です. この装置は,家庭環境で使用することを目的としていますが,この装置がラジオやテレビジョン
受信機に近接して使用されると,受信障害を引き起こすことがあります.
　取扱説明書に従って正しい取扱をして下さい.

Quick Reference
How to set up the Scanner ?

1. Make sure the following items are included in the package

2. Plug the scanner cable into your PC's parallel port.
If a printer is to be used, connect the printer cable into the scanner's printer port.

3. Connect one end of the AC power adapter into the scanner's power jack,
and the other end into an AC outlet.
Turn on the power switch located at the right side of the scanner.
Make sure the LED indicator in the lid cover and the lamp under it are lit.

4. To ensure the best scanning performance,
set the parallel port of your PC's BIOS to EPP mode.
(To change the BIOS setup, simply press the **Delete** key on the keyboard
while PC is just booting up.)

5. After opening Windows, insert the CD into your CD-ROM drive.

(1) **Under Windows 95**
The **Setup** program starts automatically. If not, click on the **Start** button,
choose **Run** and then type in CD-ROM drive letter followed by:
Setup.exe in the **Open** box.(e.g. : D\ setup.exe)

(2) **Under Windows 3.1**
Go to **Program Manager**. In the **File** menu,
choose **Run** and then type in CD-ROM drive letter followed by:
Setup16.exe in the Command Line.(e.g. : D\ setup16.exe)

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

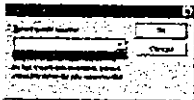| 1.	2. TextBridge	3. PhotoPlus	4.
To install the TWAIN driver	To install OCR program	To install the image-editing software	Exit

Quick Reference

How to Scan?

1. Open the lid cover and then place the scan target face down aligned with the center of the glass (where marked " ▽ ").

2. Open iPhoto Plus 4, the image-editing software.
   (1) Under Windows 95:
       Click on the **Start** button and then select **Programs** → **iPhoto Plus 4** → **iPhoto Plus 4**
   (2) Under Windows 3.1:
       Go to **Program Manager** and then click twice on the **iPhoto Plus 4** icon.

3. To scan for the first time, go to **File** and then select **Acquire** → **Select Source...**

4. Choose the scanner model name and then click **OK.**

5. Go to **File**, choose **Acquire Image.**

6. Choose **New image** in the Acquire Image box and then click **Acquire.**

7. After the TWAIN user interface appears, the scanner is now ready to perform any scan task.

   1.**Select the type of image to scan.**

   2.**Click Preview.**

   3.**Click Scan.**

   ✕ Refer to on-line User's Guide for complete instructions of the use of the TWAIN user interface. To access to this on-line help:
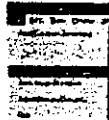   (1) Under Windows 95, select:
       Start → **Programs** → scanner model → **User's Guide.**
   (2) Under Windows 3.1, select:
       Program Manager → scanner model → **User's Guide**

8. To perform more scanning tasks, simply repeat steps 5 and 6.

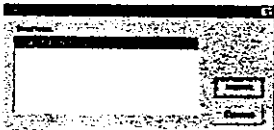# Quick Reference

How to perform OCR?

1. Open TextBridge OCR software.

    (1) Under Windows 95:
        Click on the **Start** button and then select
        Programs → TextBridge Classic → TextBridge Classic
    (2) Under Windows 3.1:
        Go to **Program Manager** and then click twice on the **TextBridge Classic** icon.

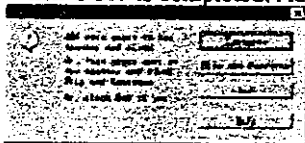**2.** Go to File and then choose **Read Image From Scanner**.

3. Go to **File** again and then choose **Select Scanner Source** ...

4. Choose **TWAIN** in the following dialog box and then click **Continue**.

5. Choose the scanner model name and then click **Select**.

6. After another TextBridge Classic dialog box appears, click on the **End** button.

7. Click on the green **GO** button at the upper left corner of the TextBridge Classic window to activate the TWAIN user interface.
Set the Scan Mode to Line Art (Black and White).
OCR is automatically performed after a document is scanned.
When OCR is completed, Add More Pages window appears on the screen.

    (1) To perform OCR on more documents, click **Continue**.
    (2) Click **End** if you are done.

8. Save OCR-performed documents using
word processor compatible file formats such as [*.rtf] or [*.txt].

User's Guide

Introduction

This guide shows you how to scan an image into the bundled image editing software, iPhoto Plus, using TWAIN program. You can also use TWAIN to scan from any other image editing, OCR, or other programs that can accept scans. Typically, you may do so by using the familiar *select source* and *acquire* commands (various programs may use slightly different procedures.)

Getting ready

1. Click on the **Start** button at the lower left corner of your PC screen. Choose **Programs,** then **iPhoto Plus 4** and then **iPhoto Plus 4** again to open the application. (Note: iPhoto Plus 4 is the OEM version of iPoto Express.)

2. In the **File** menu (at the upper left corner on your screen), click on **Acquire** and then click on **Select Source**.

3. Select a scanner data source. If the highlighted model name matches your scanner, click **OK**. If different, press down ∇ (just to the right) to select your scanner model and then click **OK**.

4. In the file menu, click on the **Acquire**, select **Image** and then choose **Acquire** (at the left bottom) to confirm. (Note: Be sure the box of New Image is marked.)

5. TWAIN User's Interface (U.I.) appears. The TWAIN interface is where you really start scanning.

Start scanning

Before starting, first place the scan target (photo, document, or others) face down aligned with the center of the glass (where marked "∇"). Close the scanner lid, making sure that the scan target does not move while you close the lid.

Using TWAIN interface, Scanning is as easy as 1-2-3!
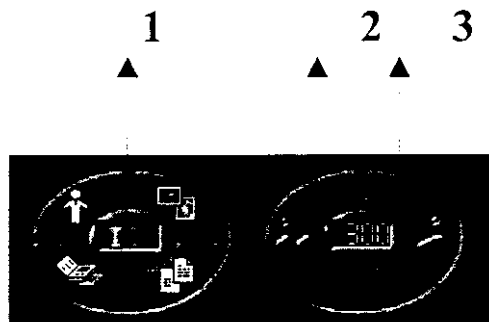
1.) Select the type of image to scan.
   Select **Photo, Document** or **Magazine and Book**. TWAIN program will automatically determine the best settings to use for scanning. (You may change any default settings if you desire, and save all the changes for later use utilizing User Defined command.)
2.) Click **Preview**.
   Click on the Preview button, this will activate the scanner. The image you are about to scan is shown in the main preview window. Adjust the size and make any other changes you like.
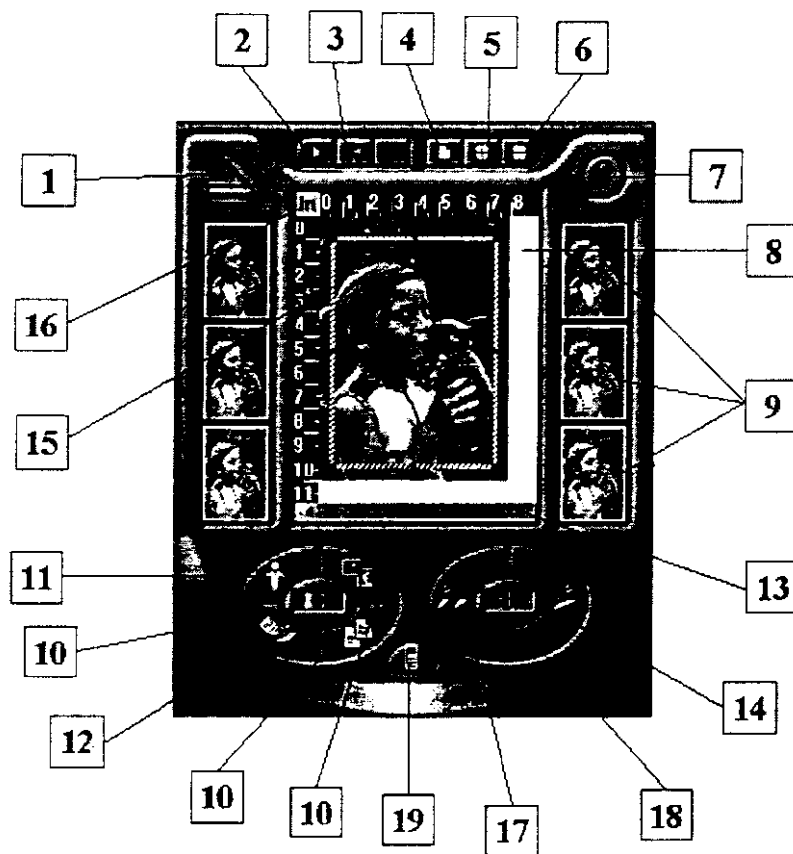3.) Click **Scan**.
   After previewing the images and making any changes, click on the Scan button. Sit back while your image is being scanned. Within a short time the result will be delivered to the iPhoto Plus. (If you decide not to do more scanning, close TWAIN interface by clicking on the Power Off button at the upper left corner. See also "7. Power Off" in TWAIN User's Interface section.)

o make sure your scan comes out as best as possible, please spend few minutes to familiarize yourself with functions described in the next TWAIN User's Interface section.

TWAIN User's Interface
Part I: For Beginners

1. About

Contains information on how to contact us.

2. Selection

Lets you select scan areas.

Selection allows you to activate a specific scan area by drawing a rectangular crop frame over the image. To adjust the size, follow instructions in "2. Scan size".

3. Zoom

Zoom in or zoom out the viewing area.

Zoom lets you take a more detailed look at what you are scanning. Click the Zoom button and then move the magnifying glass cursor over the area you would like to zoom in and click the left mouse button. To zoom out, click the right mouse button.

4. Scan size

Select size of the scanning area.

There are 6 built-in size settings (Letter, A4, A5, B5, Business Card and Auto) that you may select from. Auto option is provided to automatically crop the edges of your images for scanning. You can also manually select the size by adjusting the crop frame in the preview window. To adjust the size, move your mouse cursor over one of the 8 handles (they look like small black boxes) around the perimeter of the crop frame. The cursor will change shapes, continue pressing the left mouse button and drag the cursor to adjust the shape.

5. Add Selection

Add additional scan areas for batch scanning.

Click on the Add Selection icon to create another crop frame. You may scan more than one area with different settings by a single click on the scan command. For example, one is designated with color scan mode and another may be with grayscale. The two designations can then be manipulated and scanned separately.

6. Delete Selection

Remove specific active scan areas.
To delete, select the specific crop frame and then click on the Delete Selection button.

7. Power Off

Click here to close TWAIN interface.
When you want to leave the TWAIN User's Interface, click on Power Off button. Follow steps 2-4 from *Getting ready* to reopen the TWAIN interface.

8. Main preview window

Displays a preview of the image to be scanned.
Here you can see how your scan will appear after scanning. Inside is a crop frame for that shows you the area of the image to be scanned.

9. Alternative preview image

Provides an alternative look of the preview image.
In addition to a preview image inside the main preview window, there are six thumbnail displays of the image on the right and left side of the window. Each represents an alternative look of the preview image. You can replace the image inside the main preview window with any preferred alternative. Click on your preference and immediately it will become the one inside the main preview window.

10. Document   Magazine and Book   Photo

Lets you select the type of scan target.

Click on a specific icon and then you can activate settings recommended for that particular type of scan target: Document for black and white documents, Photo for color photos, and Magazine and Book for magazines and books with graphics.

11. User Defined

Click here to save , edit and select your preferred settings.

User Defined includes three options: save current settings, edit and select previously saved settings. You can create your own settings and save them for future use at any time simply by clicking on Save Current Setting. Choose Edit command and you can call up saved settings for editing whenever you desire. All previously saved settings are listed by their names under the Edit command. To select any settings for your current scan task, click on the desired name and its settings will be immediately applied.

12. Scan Mode

Lets you choose the color mode to scan.

There are four modes that you can select for scanning: True Color, Grayscale, Line Art (Black and White) and Halftone.

True Color	
Grayscale	
Lineart	
Halftone	

13. Message/Progress bar

Gives you a quick look at the size of the image to be scanned./Tells you the progress of the scan task.

The message bar tells you the size of the image in "width x height" and converts it into disk space needed in "bytes (KB)". When the scanning is taking place, the message bar turns into a progress bar.

14 Scan/Abort

Click here to scan the image or to abort the scanning.

Click on the Scan button after you have made all your selections. When the scanning starts, Preview/Scan icon changes into an Abort button. Press this button if you decide to cancel the scanning.

15. Preview range indicator

Lets you set the range for previewing.

Preview range indicator is a red Δ located by the left of the preview window. It specifies the range of the preview task, only the portion above the indicator is to be previewed.

16. Unit

Lets you switch between "cm" and "in".

17. Preview

Click here to preview the image.

Preview lets you quickly view the image you are about to scan. It helps to select the scanning area and preview effects of different settings before scanning.

18 Resolution

Lets you select frequently used resolutions for scanning.

Resolution is the level of detail in an image, expressed in dots per inch (dpi). High resolution reproduces sharper image but takes up more memory.

19. Advanced Settings
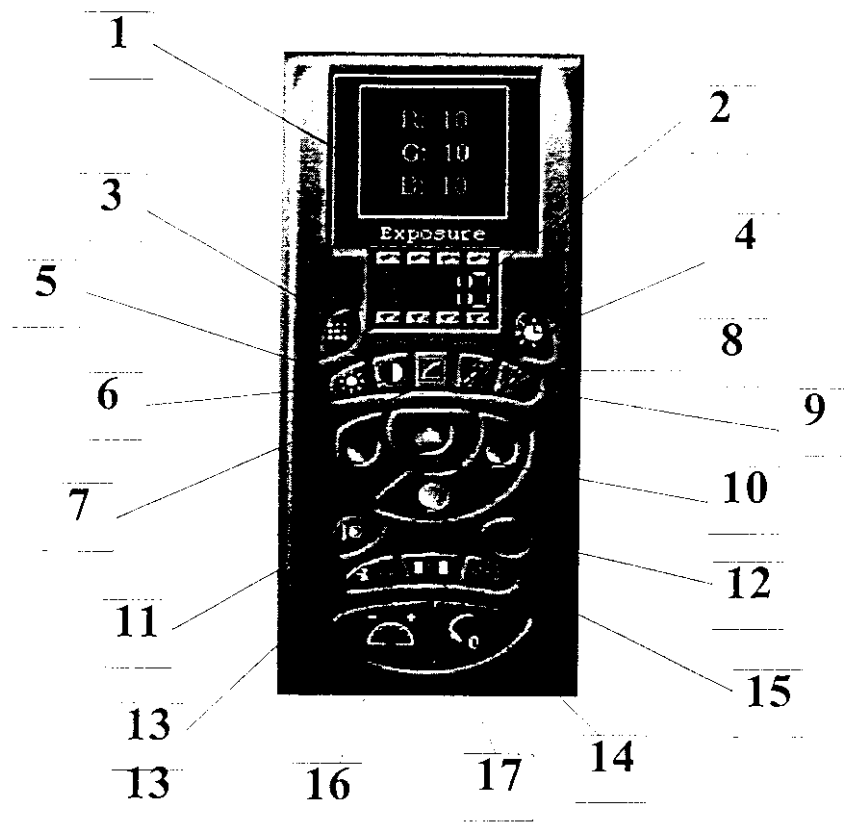

Click here to evoke the advanced settings dialog box.

For more detail scanning, click here to customize features such as resolution, exposure time, brightness, contrast .....

Check Scanner

If the scanner is not correctly installed, the Check Scanner button appears instead of the Preview/Scan button. See Quick Installation Guide for help.

Part II: For Advanced Users

1. Display window

This is a display window for the settings you specify.

2. Liquid Crystal Display (LCD) box

LCD box is where you enter or adjust the value of resolution, exposure, brightness, contrast, gamma, highlight and shadow. Each digit can be adjusted individually. Press ▨ button to increase the value and ▨ to decrease it. For example, when you want to

           1) Press down ▨ under digit 3 and hold until it becomes 1.
           2) Press down ▨ above digit 2 and hold until it becomes 5.

3. Resolution (10 to 4800/9600 dpi)

The higher the resolution, the sharper output you will get. Using too high a resolution, however, unnecessarily increases the file size and scanning time. To adjust the resolution, see instructions in "2. Liquid Crystal Display (LCD) box".

4. Exposure (time) (0 to 255)

The longer the exposure time, the brighter the image will become. The exposure of each R, G and B channel can be adjusted individually (for CP models only). To adjust the exposure time, see instructions in "2. Liquid Crystal Display (LCD) box".

Where you switch between R, G and B channel.
          (for CP models only)

5. Brightness (0 to 255 for Line Art mode and -100 to 100 for other scan modes)

Brightness is the balance of light and dark shades in an image. Increasing the value creates a brighter image and vice versa. To adjust the brightness, see instructions in "2. Liquid Crystal Display (LCD) box".

6. Contrast (-100 to 100)

Contrast is the range between the darkest and lightest shades in an image. It determines the number of shade you get. When the contrast value is increased, the high-toned areas of an image become lighter and the low-toned areas become darker. To adjust the contrast, see instructions in "2. Liquid Crystal Display (LCD) box".

7. Gamma (-100 to 100)

Gamma is the slope of the line that represents output value versus input value. Adjusting of the gamma changes the mid-toned areas of an image without dramatically affecting its highlights and shadows. To adjust the gamma , see instructions in "2. Liquid Crystal Display (LCD) box".

8. Highlight (-100 to 100)

Highlight is the lightest portion of an image. Its value can range from -100 to 100. (The default value is 0.) To increase the lightness of an image, increase the highlight value and vice versa. To adjust the highlight , see instructions in "2. Liquid Crystal Display (LCD) box".

9. Shadow (-100 to 100)

Shadow is the darkest portion of an image. When the shadow is set to a higher value, the image becomes brighter. To adjust the shadow , see instructions in "2. Liquid Crystal Display (LCD) box".

10. R, G, B, Master and True Gray Channel

Allow you to adjust the brightness, contrast, gamma, highlight and shadow of an image through four different channels. In Color scan mode, they are Red, Green, Blue and Master Channel which allows simultaneous adjustment for red, green and blue. In Grayscale/Lineart/Halftone scan modes , they are Red, Green, Blue and True Gray Channel (for CP models only).

Channel selection tip:
When scanning in Grayscale, Lineart or Halftone, choose True Gray channel to obtain the best scan output.

11. Filters

Filters allow you to create special effects for your images. Options include Average, Blur, Sharp, Edge Enhance and De Screen. Click on Filters and then choose your preferred options. Changes will be immediately made to the main and six alternative preview images.

12. Halftone Pattern

Halftone is a type of single-bit image composed of black dots that create the illusion of shades of gray. There are 12 patterns to let you choose from when the scanning is set in Halftone mode. To use, simply click on Halftone Pattern icon and then select your desired pattern. The change will be applied to the image in the preview window in real time.

13. Invert

The Invert tool allows you to convert colors of an image into complementary value. For example, blue turns into yellow and black turns into white. This tool is mostly used for producing special effects for your images.

14. Remove Dark Edge

When the scan target is not properly placed on the glass under the lid of the scanner, it might cause some unnecessary dark edges around the previewed image. To remove them, first select the image and then click on the Remove Dark Edge button to activate its function. When the image is scanned, these dark edges will be automatically whitened .

15. Deskew

Deskew function is for sheet feed scanners only. It is disabled for all flatbed scanners.

16. Calibrate

Calibration is to adjust your scanner device to ensure accurate scan output. Through the process of calibration, images can be correctly captured by your scanner and then be transferred faithfully to your PC monitor.

17. Reset

Reset button allows you to clear all the changes you have made and to reset all settings back to their original default value.