Color Image Scanner AV626C

User's Manual

(D/N 250-0152-E Rev. A)

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FCC Radio Frequency Interference Statement

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 reasonable protection against provide residential installation. This interference in а equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, 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.

CAUTION: Any changes or modifications not expressly approved by the manufacture of this device could void the user's authority to operate the equipment.

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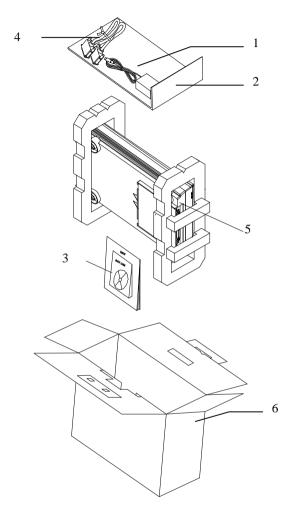
1. INTRODUCTION

Congratulations on your purchase of the Button scanner. The Button scanner is compact and small to save desk space.

You can scan both normal printing material including photographs as well as the transparency and store them in your computer. Then you can modify them for a variety of purposes on your computer and enjoy the wonderful world of image.

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

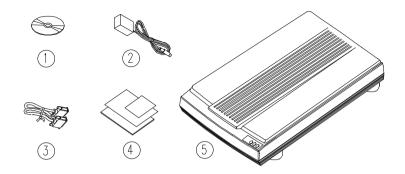
Figure 1-1 shows how the scanner is packed. Please check all the items against your checklist contained in the box or against Figure 1-1. If there is any missing or damaged, please contact your nearest dealer immediately for the replacement.



- Power Adapter
 Cushion
 Manual, Driver Kit CD.
 D25P Cable
 Scanner
 Carton

Figure 1-1 Scanner packing

Package Contents



- 1. Software CD
- 2. Power Adapter
- 3. D25P Cable
- 4. Quick Installation Guide
- 5. Avision AV626C

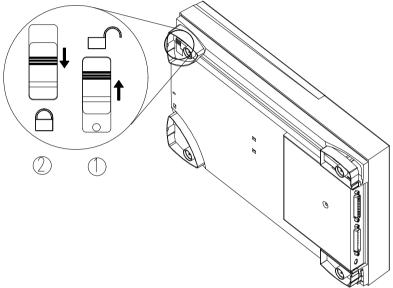
2. SCANNER INSTALLATION

2.1 PRECAUTIONS

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

2.2 UNLOCKING THE SCANNER

As shown below, unlock the scanner by moving the scanner lock to the *Use* position.

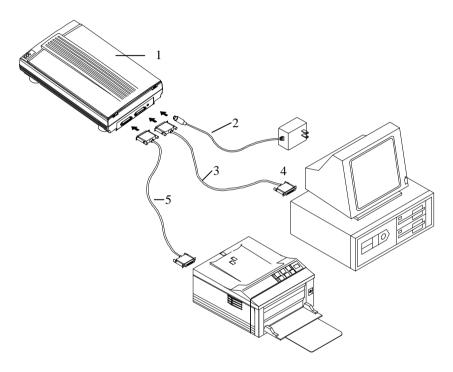


1. "Use" Position 2. "Shipping" Position

Figure 2-1 Unlocking the Scanner

2.3 CONNECTING THE CABLE

Connect the power cable and signal cable as shown below.

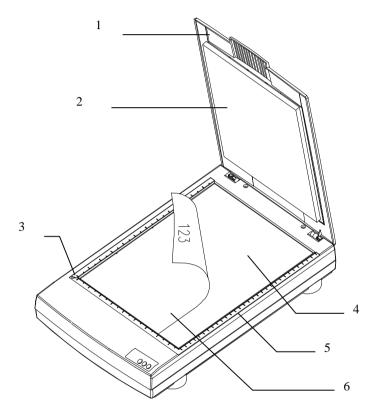


- 1. Scanner
- 3. D25P Cable
- 5. Printer Cable
- 2. Power Adapter
- 4. PC Parallel Port

Figure 2-2 Scanner cable connection

2.4 DOCUMENT PLACEMENT

As shown in Figure 2-3, place the document on the glass with the text facing away from you.



- 1. Document Cover
- 2. Document Pad
- 3. Reference Mark
- 4. Document Board Glass
- 5. Reference Frame
 - 6. Document

Figure 2.3 Document Placement

3. SCANNER DRIVER INSTALLATION

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

- * IBM compatible PC 386/486, Pentium or later;
- * Microsoft Windows 3.1, Windows 95, Windows NT:
- * One printer port available (enhanced parallel port recommended);
- * 20 Megabytes of available hard disk space for installation;
- * 8 Megabytes of RAM (16 Megabytes or higher recommended);
- * A video graphics array (VGA) monitor;
- * A Microsoft Windows-compatible pointing device (e.g., mouse):
- * A CD ROM drive.

3.1 INSTALLATION PROCEDURE

Installation procedures of Avision AV626C driver are as follows:

- 1. Start Windows 3.1 or Windows 95.
- 2. Insert software CD into your CD ROM drive.

In Windows 3.1 or higher

3. From the File Menu, choose RUN, type d:\driver\AV626C.exe (d represents the letter for your current CD-ROM drive). Click O.K.

In Windows 95 or Windows NT

- 3. Press the Start button, choose RUN, type d:\driver\AV626C.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

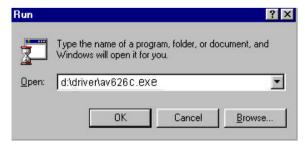


Fig. 3.2

3.2 UNINSTALL THE SCANNER

You can uninstall the scanner by selecting Start>Programs>Avision AV626C and double clicking on the ${\it Uninstall}$ command from the scanner .

4 SCANNER OPERATION & DOCUMENT PRINTING

Scanning Images from within an Application (TWAIN)

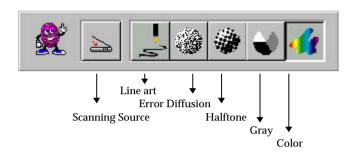
- 1. Open your application and choose **Select Source** from the File menu. If the **Select Source** menu options are not available from the File menu, see the user guide of your application to learn how the TWAIN link is used.
- 2. A dialog box appears containing the different TWAIN sources that you can choose from to bring an image into your application.
- 3. Select **AV626C**/**xx Vx.xx** as the source.
- 4. When you have used the dialog box to select a different source, you will need to select **AV626C** as the source again before you can reuse the Button scanner.
- 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:



4.1 IMAGE TYPE

The Button scanner provides five image types as explain in 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 (256 levels gray scale)

Gray presents a 256 shades of gray in an image.

Color (Internal one billion colors)

The 36 bits True Color presents 16.7 million color(output) and give much more tonal range and details in a color image.

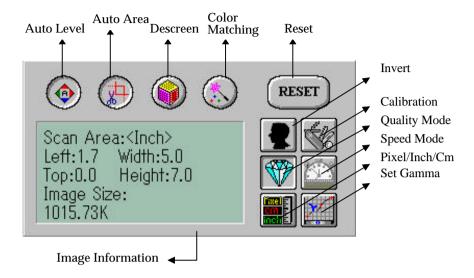
4.2 SCANNING PARAMETERS & IMAGE CONTROL



Resolution: The number of dpi (dots per inch) that the scanner 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.



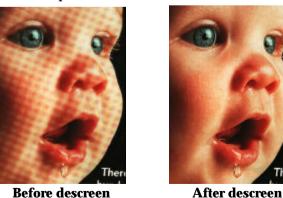
Auto Level: Optimizes the scanned image.

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.



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.

Calibration: Defines *Brightness* for the scanner. Users are recommended to calibrate the light source if the scanned image looks undesirable or comes out to be too dark.

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.

4.3 SCANNING



Preview: Previews your image roughly and allocates

the area to be scanned.

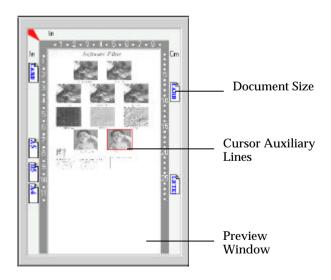
Scan: Execute the Scans action. **Exit:** Cancels the current job.

Document Size: To designate the size of your document, just

click on its icon on the margin of the

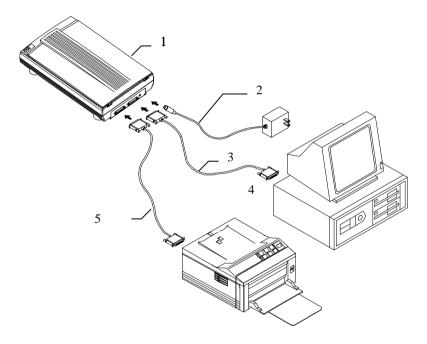
preview window.

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.



4.4 PRINTING

Connect the printer cable as shown below.



- 1. Scanner
- 3. D25P Cable
- 4. Printer Cable
- 2. Power Adapter
- 4. PC Parallel port

Figure 5.1 Scanner Cable Connection

Caution:

- 1. Be sure to power on the scanner if you want to do pass-through printing.
- 2. Do not scan and print at the same time.
- 3. If your PC does not support EPP mode or have passthrough compatibility problem, please contact your authorized local dealer for an EPP card or an additional interface card.

5. USING VISUAL PARK BY ONE TOUCH OF THE PUSH BUTTON

Visual Park: Using Visual Park, you can instantly scan and link your scanned image to the selected application without going through a couple of time-consuming steps (for example, starting the application first, then selecting TWAIN source, choosing acquire and so on).

Note:

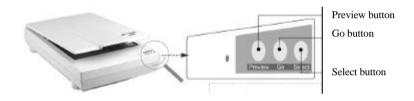
The Visual Park is only available in Windows 95 and NT4.0.

Starting Visual Park

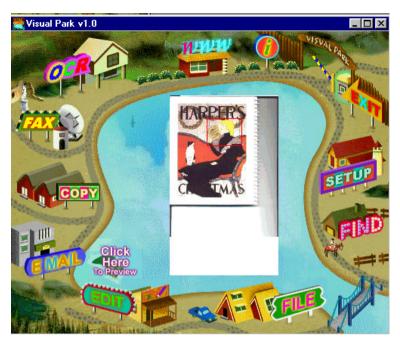
1. If the software has been installed successfully, the Visual Park Controller will show up at the lower-right corner of the taskbar.

The Visual Park Controller 4:35 PM

2. Locate the Push buttons on the front of the scanner.



3. Press any one of the three Push buttons to bring up Visual Park main window.



Visual Park main window

- 4. Using the Push buttons:
- The Preview button: Press the Preview button to get a test scan image (low resolution) and to allocate your final scan area.
- 2) **The Select button**: Press the Select button to select your application.
- 3) **The Go button:** Press the Go button to scan and link to the selected application.
 - **Select the Find software button and press "Go":** The document manager application will be started. You can find your file stored in the document manager application.
 - Select the File, OCR, Edit application button and press "Go": The selected application(for example, the document manager, TextBrdige OCR engine or Imageediting application) will be started and your scanned image will be displayed in the application's main window.
 - Select the Copy, Fax software button and press "Go":
 A dialog will be displayed to enter your information.
 Press OK to start scanning and your scanned image will be printed, or faxed.
 - **Select the E-mail software button and press "Go":** Your image will be scanned and a dialog will be displayed to enter your information. Press OK to attach the image to your e-mail message.
 - a. Select WWW browser button and press "Go": The scanned image will be displayed in your web browser's screen. You can paste the scanned image to your homepage.

Note:

1. You can also start Visual Park without pressing the Push button by clicking the Visual Park Controller icon and choose Restore from the pop-up menu.

Choose Restore from the popup menu to evoke the Visual Park's main window.

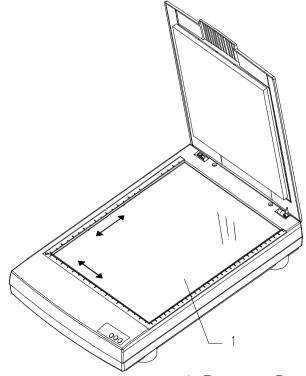
Or Go to the Start button and choose Programs>PaperCom Visual Park>PaperCom Visual Park.

2. Install Fax/E-mail driver and modem if you want to use Fax/E-mail these features.

6. MAINTENANCE

Clean the Document Board Glass:

As shown in Figure 5-1, wipe the scanner glass with a piece of soft clean cloth to rid the glass of dust or toner particles.



1. Document Board Glass

Figure 5-1 Clean the document board glass.

7. TROUBLESHOOTING

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

7.1 QUESTIONS AND ANSWERS

Question: Why the scanned image always comes 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 scanner is much

slower than that of those installed at other

computers. Can I speed it up?

Answer: Set you PC printer port to the EPP mode

from BIOS setting.

Question: Why does my scanner 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 scanner to

initialize?

Answer: If your printer port supports SPP mode

only, it takes about two minutes for the scanner to initialize. If your printer port

supports EPP mode, the initialization speed

is much faster, about 20 seconds.

Question: Why sometimes pass-through printing does

not work at all?

Answer: It may be that you fail to power on the

scanner. When doing pass-through printing, please be sure to power on the scanner. Else, without power, the scanner can not transfer the printing data/signals to

the printer.

Question: Why my GDI printer does not work with

the button scanner?

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

software s keypro do not work with the

button scanner?

Answer:

The scanner 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 scanner currently uses. It is suggested to use other parallel ports to connect these devices or keypro. For instance, you can connect the scanner to LPT1, and connect other parallel port devices to LPT2. Or you can add a data switch to avoid the problem.

8. SPECIFICATIONS

All specifications are subject to change without notice.

8.1 MODEL: AV626C

Scanner Type: Flatbed Scanner

Optical Resolution: 600 dpi * 1200 dpi (H*V)

Maximum Resolution: 19200 dpi

Scanning Modes: Black & White mode

Halftone mode (64-step)

Error diffusion

Grayscale(12 bits scanning/8

bits output)

Color(36 bits scanning/24 bits

output)

Document Size A4, B5, A5, business

card

Interface: Printer port (supports

SPP/EPP for PC)

Power Source: 100Vac~240Vac,

50~60Hz, external

Power Consumption: 12 watts (12Vdc,1A) Dimensions: (WxDxH) 419 x 260 x 77 (mm)

Weight: 2.9kg (6.3 lbs)

EC Declaration of Conformity

According to EN45014

Manufacturer's Name: Avision Inc..

Manufacturer's Address: No. 20, Creation Road I,

Science-Based Industrial Park, Hsin-Chu, Taiwan,

R.O.C.

declare that the product

Model Number: AV626C

conforms to the following Product Specifications:

Emission: EN 50081-1 (1992)

EN 55022 (Class B)

(Conducted Radiated)

(1994)

EN 60555-2 (Harmonics) (1987) EN 60555-3 (Flicker) (1987)

Immunity:

EN50082-1 (1992)

IEC 1000-4-2 (ESD) (1995) IEC 1000-4-3 (RS) (1995) IEC 1000-4-4 (EFT/Burst)

(1995)

IEC 1000-4-5 (SURGE) (1995)

Date: December 1995