INSTRUCTIONS MANUAL
FEDERAL COMMUNICATIONS COMMISSION
INTERFERENCE STATEMENT

FCC ID: HWFA4CIS-USB

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 euipment into an outlet on a circuir different from that to which the receiver is connected.

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

CAUTION:

To assure continued FCC compliance:

(1) Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the euipment.

FCC Label Compliance Statement:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

A4 USB Scanner Installation Guide

1 Unpacking the Scanner

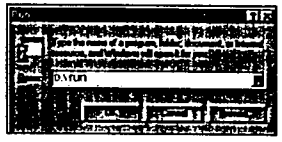
Unpack the package and inspect the items closely to make sure no item is damaged.

The package should include:

1. The Scanner
2. USB Scanner Installation Guide
3. Installation CD
4. Scanning Utilities Manual (either included in the Installation CD or printed separately)

2 Driver Installation

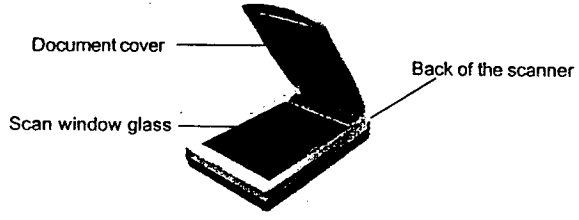
NOTE: Please complete the driver installation before installing the Scanner. Do not connect the USB cable to the scanner at this stage.



1. Insert the Driver Installation CD into your disk drive. (Proceed to Section 4.)
2. Click on **'Start'** and select **'Run'**. (If Autorun function disabled.)
3. In the **'Run'** dialog box, type *drive*:\run' where *drive* is your CD-ROM drive and click **'OK.'**
4. Follow all on-screen instructions.

NOTE: When you are presented with the option of restarting Windows after completing the driver installation please choose **'OK'**.

3 The Scanner Parts

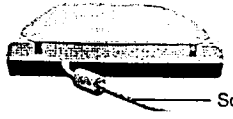


4 Connecting the Scanner to the PC

Refer to the following illustration and steps to connect your scanner.

With the power to your PC on, connect the scanner's USB cable to the USB port of your PC.

Upon connecting the USB cable, the Windows operating system will automatically detect your scanner and update your system configuration.



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4A If Add New Hardware Wizard Appears (Windows 98, 2000 Users)

NOTE: The **Add New Hardware Wizard** will not appear if you have already installed your scanner software. If software is installed and NO **Add New Hardware Wizard** dialog box appears, please proceed with the **NOTE** below and section 5, Using the Scanner.

If the **Add New Hardware Wizard** dialog box appears upon installing the software driver and connecting the USB cable, perform the following steps:

1. Click on the **'Next'** button when the Add New Hardware Wizard dialog box appears. (See box on right.)
2. Select below option to search for your computer drivers; then click **'Next.'**
3. Check box at **'Specify a Location'** and then click **'Browse.'**
4. Select **'CD ROM'** in 'Browse for Folder' dialog box and then select the **'Windows'** folder. After selecting, click **'OK.'**
5. Click **'Next'** and the following installation message will appear, **'Windows is now ready to install the best driver for this device...'** When this message appears, click **'Next.'**
6. Click the **'Finish'** button to exit.

NOTE: You are given the choice of whether to use the Scan Dialog box (refer to the Scanning Utilities Manual) that came with your scanner or use the Imaging program (refer to your Windows reference guide) that is built into your Windows operating system.

5 Using the Scanner

There are two separate methods to scan an image, the Scan Dialog box and the TWAIN Dialog box. Refer to the Scanning Utilities Manual for a description of these to facilitate your use of the scanner; or refer to the on-line manual and help system any time when using the scanner software. This easy-to-use system contains detailed information about the scanner topics and its functions.

5A To access the Scan Dialog box, you can do any of the following:

1. **The Direct Scan Icon**: Double-click the Direct Scan icon, located in your Windows taskbar,

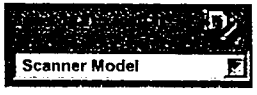
or

2. **The Scan Dialog Box Item**: Click on **'Start'** on your Windows desktop and locate the name of your scanner model under **'Programs'**. Then double-click the item **'Scan Dialog Box'**.

5B To access the TWAIN Dialog box, you can do the following:

1. Launch the TWAIN-compliant program (e.g. Photo Express).
2. Under the File menu open the **Acquire** command and choose **Scanner** OR Click the Scanner icon.

The Select Data Source dialog box appears.



3. Choose your scanner model from the list.
4. Click on the **'Acquire'** button.

The Select Data Source dialog box closes.
The TWAIN Dialog box appears.

5C To access the on-line manual:

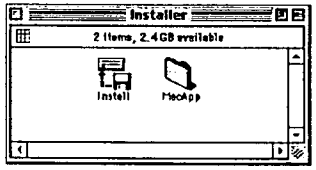
1.Click on **'Start'** and select **'Programs'**.
2.Click on your scanner model and select **'Scanner's User' Guide'** .

6 Driver Installation (iMac)

NOTE: Please complete the driver installation before installing the Scanner. Do not connect the USB cable to the scanner at this stage.

1. Insert the Driver Installation CD into your disk drive.
2. Wait for the **Installer** icon to appear on your desktop.

3. Double-click on the **Installer** icon to open the **Installer** dialog box.



4. Double-click on the **Install** icon.
5. Continue to follow all on-screen instructions to complete the driver installation.

6A Connecting the Scanner to the iMac

Refer to the following to connect your scanner.

1. With the power to your iMac on, connect the scanner's USB cable to the USB port of your iMac.

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FCC ID: HWFAHCIS-USB

7 Specifications

Scanner Type	Color CIS Flatbed
Scan Area	8.5" x 11.7" (216 x 297) mm
Scan Modes:	
True Color	36-bit, 68.7 billion colors 48-bit (software enhanced)
Gray Mode	12-bit, 4096 shades of gray
Text/Line Art	1 bit/pixel (2 levels)
Scan Method	Single Pass Scanning
Resolution Control:	
Optical	600 dpi (H) x 1200 dpi (V)
Enhanced	19200 dpi x 19200 dpi (software-S/W controlled)
Scanning Data Buffer	32KB (maximum)
Gamma Correction	Download software application (S/W controlled)
Brightness Control	255 adjustable steps (S/W controlled)
Contrast Control	255 adjustable steps (S/W controlled)
Batch Scan	Yes
Auto Crop	Yes
Image Process Functions:	
Descreen	
Filtering	(Invert, Flip, Blur, Sharpen, Emboss, Unsharpen Mask)
Auto Color Balance	
Driver Supports	Windows 98, 2000 and iMac
Interface	USB
Light Source	Light Emit Diode
Power Consumption	2.5W (Bus Power 0.5A x 5V dc)
Operating Temperature	10°C ~ 40°C (50°F ~ 104°F)
Operating Humidity	35% ~ 80% RH, Non-Condensing
Storage Temperature	-10°C ~ 60°C (14°F ~ 140°F)
Storage Humidity	20% ~ 80% RH, Non-Condensing
Dimensions:	16.1" x 10.6" x 1.4" (L x W x H) (410 x 268 x 36) mm
Weight:	4.2 lbs. (1.9 kg)