

## IMPORTANT!

You need to reinstall EPSON® Image Authentication System™ (IAS) on your camera if it was installed before your camera was repaired. Please see your *EPSON Image Authentication System User's Guide* for instructions.

IAS software lets you check the authenticity of photos taken with your EPSON Photo PC® 700, 750Z, 800, or 850Z camera. IAS detects when even a single bit of digital data in a picture has been altered. If you don't have IAS installed on your camera and would like to learn more about it, call **1-800-GO EPSON**, or visit our website at **<http://www.epson.com>**.



**EPSON®**

**IMAGE  
AUTHENTICATION  
SYSTEM™**



***User's Guide***

EPSON is a registered trademark of SEIKO EPSON Corporation. PhotoPC is a registered trademark, and HyPict, Image Authentication System, and FaxAdvice are trademarks of Epson America, Inc.

SoundAdvice is a service mark of Epson America, Inc.

Microsoft, Windows, and Windows NT are registered trademarks of Microsoft Corporation. IBM is a registered trademark of IBM Corporation.

Other product names used herein are for identification purposes only and may be trademarks of their respective owners.

This software is based in part on the work of the Independent JPEG Group.

# ***Contents***

Introduction .....	1
System Requirements .....	2
Installation and Setup .....	2
Installing IAS .....	3
Uploading IAS to Your Camera .....	4
Verifying Pictures .....	11
Displaying Different Views .....	14
Where to Get Help .....	17
Camera Frame Rates .....	18



## Introduction

The EPSON Image Authentication System™ (IAS) lets you check the authenticity of photos taken with your EPSON PhotoPC® 700, 750Z, 800, or 850Z camera. IAS detects when even a single bit of digital data in a picture has been altered. Because IAS doesn't change the file format, it has no effect on your ability to store and display pictures, or to use them in other applications.

***Important:***

*Your software license agreement permits you to upload the IAS software to only one EPSON digital camera per software copy or license purchased.*

## ***System Requirements***

Your system must have the following:

- IBM<sup>®</sup> compatible PC with a 486 or higher processor
- Microsoft<sup>®</sup> Windows<sup>®</sup> 98, Windows 95, or Windows NT<sup>®</sup> 4.0 (with Service Pack 3) or later
- 9-pin serial port or USB port (Windows 98 only)
- At least 16MB RAM
- VGA monitor with minimum resolution of 640 × 480 and at least 16-color display



## ***Installation and Setup***

This section explains how to install the IAS software on your computer and upload it to your camera.

### ***Note:***

*Once you upload IAS to your camera, you will not be able to remove it.*

## ***Installing IAS***

Follow these steps to install IAS:

1. Insert the EPSON Image Authentication System CD into your CD-ROM drive.
2. Double-click the **My Computer** icon on your Windows desktop:



3. Double-click the CD-ROM drive icon:



4. Double click the **Setup.exe** icon:



5. Follow the instructions on your screen to install the software.

## ***Uploading IAS to Your Camera***

EPSON Image Authentication System verifies the authenticity of pictures taken only after the IAS program is uploaded to your camera.

You can use this procedure both to upload IAS to your camera and to verify that IAS is loaded on a camera.

Before you start, make sure you have the serial cable or USB cable that came with your camera. Also, either use an AC adapter or make sure your camera has a fully charged set of batteries.



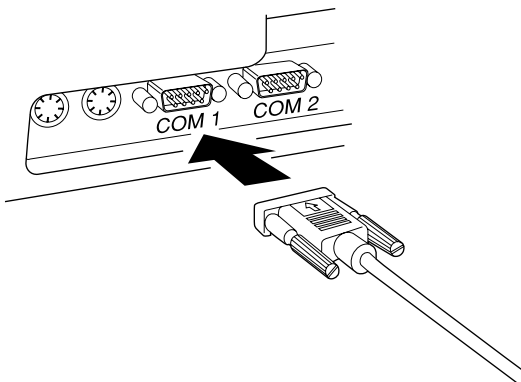
Turn off the camera and LCD screen, then follow these steps:

1. Locate your computer's serial or USB port.

**Note:**

*If you are connecting the camera to a serial interface and your computer has two ports, connect your camera to COM1.*

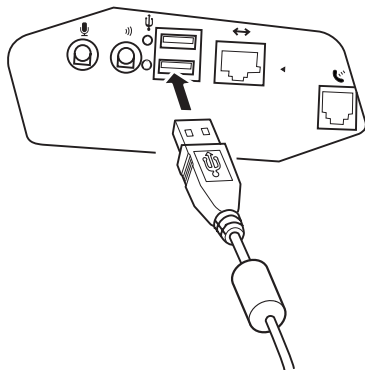
2. If you are using the serial cable, align the connector with your computer's serial port, and plug it in. Then tighten the screws.



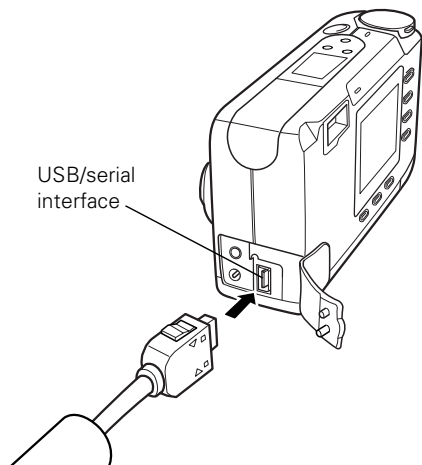
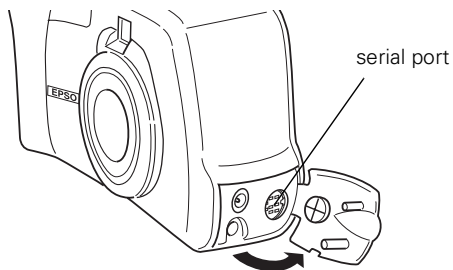
If you are using the USB cable, plug the connector into the USB port on your computer or into a port on a USB hub.

**Note:**

*Although you can use a USB hub, it's best to connect the camera directly to the computer's USB port.*



3. Open the connector cover on the side of the camera. Align the serial or USB cable with the port and plug it in.

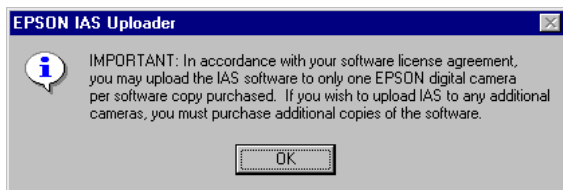


4. Turn on the camera.

**Note:**

*If you have problems connecting to the port you've selected, check your computer's port configuration and try again. If you're using batteries instead of an AC adapter, make sure your batteries are fully charged.*

5. Click Start, point to Programs, EPSON Image Authentication System, and click Camera Uploader. You see this message:

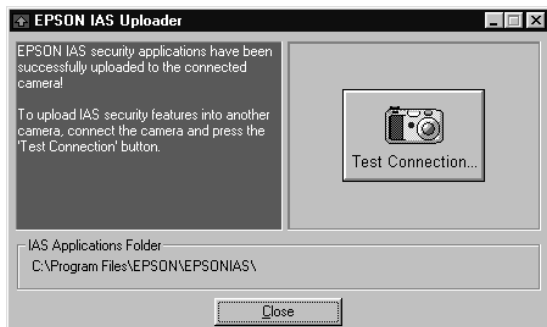


Your software license permits you to upload the software to **one camera only**. If you want to use the software on another camera, you need to purchase another copy of the software.

6. Click OK. You see the IAS uploader screen:



7. Click the UPLOAD button. When the software has been uploaded to your camera, you see the following screen:



**Note:**

*If IAS can't find your camera, follow the instructions on the screen to establish a connection.*

If you purchased additional copies of software, continue with step 8. Otherwise, go to step 9.

8. To upload IAS to another camera, disconnect the first camera and connect the second. Turn the second camera on, then click Test Connection to make sure the camera is properly connected. The software uploads automatically to the second camera.
9. Click Close, then turn off and disconnect your camera when you're finished.

Any pictures you take with your camera from this point on can be checked by IAS for authenticity.

**Note:**

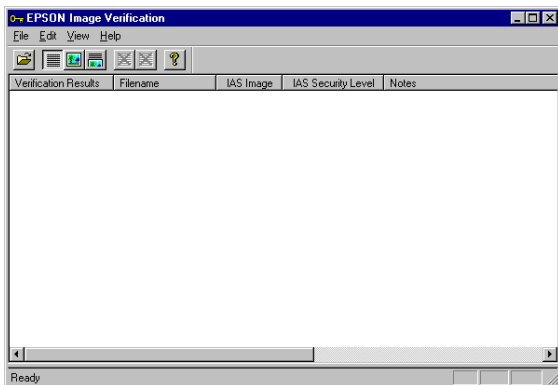
*In the unlikely event your camera needs to be repaired, you will need to upload IAS again.*




## Verifying Pictures

After you've loaded IAS on a camera, any pictures you take will contain an invisible, encrypted "fingerprint." IAS uses this fingerprint to check the integrity of a picture. You can check a single picture or verify several pictures at once. To verify a picture:

1. Transfer the photos to your computer as described in your camera manual.
2. Click Start, point to Programs, EPSON Image Authentication System, and click EPSON IAS Verification. You see the following screen:

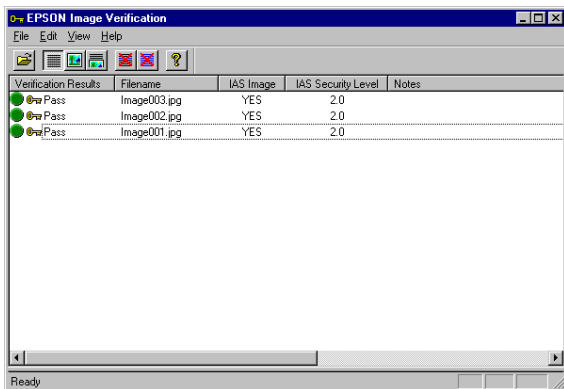


3. From the File menu, select Open, or click the  Open Folder button. You see the Open dialog box.

**Note:**

*The command Select Key List File on the File menu is not operational for this release.*

4. Locate and select the image files you want to verify.  
To select more than one file, hold down the Ctrl key while you click on the files.
5. Click Open. You see the File List View:





The File List View lists the selected files and the following details for each picture:

### **Verification Results**

- PASS indicates the picture has not been altered.
- FAIL means the picture has been altered.
- Non-IAS image indicates the picture was taken with a camera without IAS loaded.
- ERROR indicates an error condition. (Errors are explained under Notes.)

### **Filename**

Shows the filename of the picture.

### **IAS Image**

Shows whether the picture was taken with a camera that has IAS installed.

### **IAS Security Level**

Shows the IAS security level in use. (Your software currently supports level 2.)

### **Notes**

Gives more detailed explanations of errors.

### **Path**

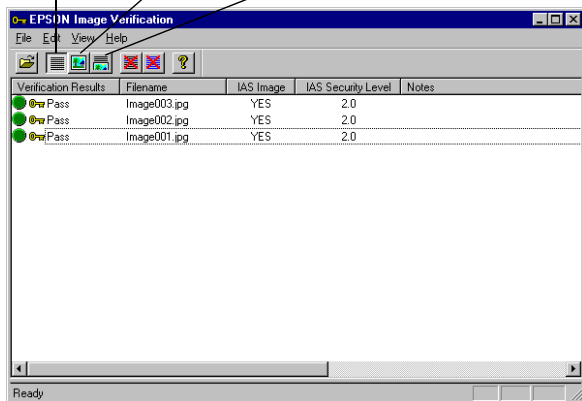
Shows the path of the image file.



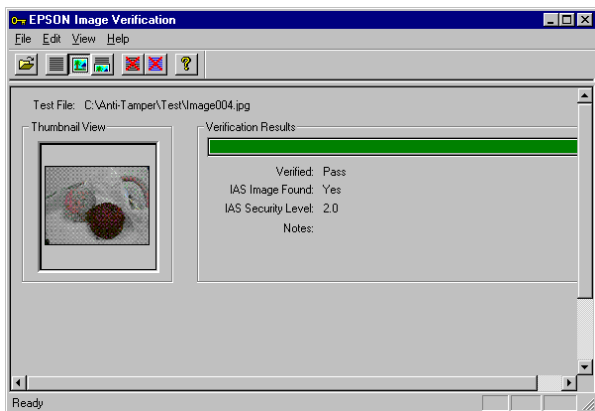
## Displaying Different Views

In addition to the File List View, you can display verification results for a single image file (Test Info View), or you can display the File List View and Test Info View at the same time.

File List View button      Test Info View button      Both Views button

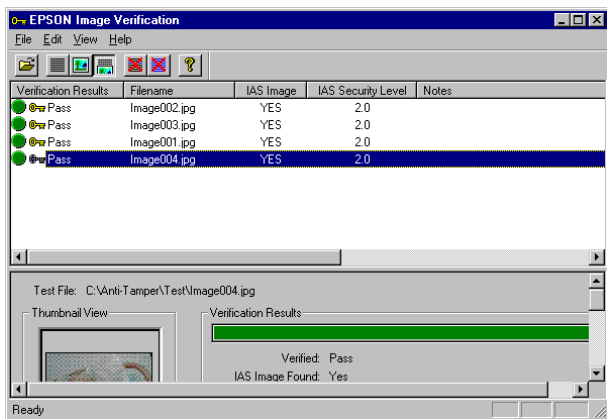


To display the Test Info View, click the Test Info View button in the toolbar, or choose Test Info View from the View menu. You see the following screen:



In addition to verification results, the Test Info View displays a thumbnail image of the selected picture.

To see the File List View and Test Info View at the same time, click the Both Views button, or choose Both Views from the View menu. You see the following screen:



To return to the File List View, click the File List View button on the toolbar, or choose File List View from the View menu.



## Where to Get Help

EPSON provides technical assistance through electronic support services and automated telephone systems 24 hours a day, seven days a week, as follows:

- From the Internet, you can reach EPSON's Home Page at <http://www.epson.com>.
- For pre-recorded answers to commonly asked questions, call EPSON SoundAdvice<sup>SM</sup> at (800) 922-8911.
- You can also access EPSON FaxAdvice<sup>TM</sup>, EPSON's technical information library, by calling (800) 922-8911. You must provide a return fax number to use this service.
- For the location of your nearest Authorized EPSON Reseller, dial (800) 922-8911.

To speak to a technical support representative, dial (310) 974-1983 (U.S.), or (905) 709-3839 (Canada), 6 AM to 6 PM Pacific Time, Monday through Friday. Toll or long distance charges may apply.

You can purchase manuals and accessories from EPSON Accessories at (800) 873-7766, or visit our website at [www.epsonsupplies.com](http://www.epsonsupplies.com) (U.S. sales only). In Canada, please call (800) 807-7766 for dealer referral.



## Camera Frame Rates

When you've uploaded IAS to your camera, it takes slightly longer to process pictures. The tables below give the camera frame rates (approximate time, in seconds, you must wait between pictures) when IAS is installed.

### *Color Mode, LCD Off*

<b>Image Quality</b>	<b>PhotoPC 750Z</b>	<b>PhotoPC 800</b>	<b>PhotoPC 850Z</b>
Standard	4	4	5
Fine	10	9	9
Super Fine	15	14	14
HyPict	35	22	21

### *Color Mode, LCD On*

<b>Image Quality</b>	<b>PhotoPC 750Z</b>	<b>PhotoPC 800</b>	<b>PhotoPC 850Z</b>
Standard	6	5	7
Fine	13	10	11
Super Fine	18	15	16
HyPict	37	24	24



CPD 8298R1