## **UMAX Astra 1200S**

## **Scanner Operation Manual**

This operation manual contains all the information you need to install your scanner. For quick installation instructions, see the Quick Start Guide accompanying your scanner.

! Make Sure the power is OFF before installing.

#### **Important Safeguards**

- Read all of instructions.
- Save these instructions for later use.
- Follow all warning and instructions marked on the product.
- When replacement parts are required, be sure that service technician has used replacement parts specified by the manufacturer that have the same result in fire, electric shock, or other hazards.
- Do not use this product near water or in rainy/moist situation.
- Do not place on an unstable table to avoid the series of damage to the product.
- The product should be operated only from the type of power source indicated on the marketing label.
- Do not attempt o service this product yourself as opening or removing the enclosure may expose you to dangerous voltage or other hazards.
- This unit has an autoranging input circuitry suitable for 120Vac and 240Vac.
- The sound pressure level at the operators position according to IEC 7041:1982 is equal or less than 70dB(A).
- The following adapters are approved to be used with TUV-GS:
  ADP-12CB Rev. B/Delta, ADP-12CB Rev. C, WP10XY/Dow Dec, HES 10-311/Hitron.
  For UL CSA Listed products, the adapter shall be UL, CUL, or CSA Listed Class 2
  Power Supply.

Part No.: 830504-00

## **FCC Declaration of Conformity**

#### **Declares that the products:**

Product Name: Color Scanner Model No.: Umax Astra 600P, H5E0

Accessories: Transparency Adapters Model No.: UTA-2A, H760

FCC Rules: Tested to comply with FCC Part 15, Class B Op. Environment: For home or office use

#### **FCC Compliance Statement:**

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 receiver, including interference that may cause undesired operation.

#### **Information to user:**

This equipment has been tested and found to comply with the limits of 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:

- 1. Reorient/Relocate the receiving antenna.
- 2. Increase the separation between the equipment and receiver.
- 3. Connect the equipment to an outlet different from the one to which the receiver is connected.
- 4. Consult the dealer or an experienced radio/TV technician for help.

#### **Caution:**

Changes or modifications not expressly approved by the manufacturer responsible for compliance could void the user's authority to operate the equipment.

#### The party responsible for product compliance:

Corporate Name: UMAX Technologies, Inc.

Address: 10460 Brockwood Dr.; Dallas, TX 75238; U.S.A.

Telephone No.: 214-342-9799

## **Contents**

Preparation for Installation	4
Installation on Macintosh	9
Installation on PC	10
Completing First Scan	12
Troubleshooting	14
Maintenance	15
Specifications	16
Glossary	17

#### **Trademarks**

IBM PC/AT is a trademark of International Business Machines Corporation. MS-Windows, Windows, and MS-DOS are trademarks of Microsoft Corporation. Macintosh and MacSeries are trademarks of Apple Computer, Inc. Photoshop is a trademark of Adobe Systems, Inc. Other names and trademarks appearing herein are trademarks of their respective holders.

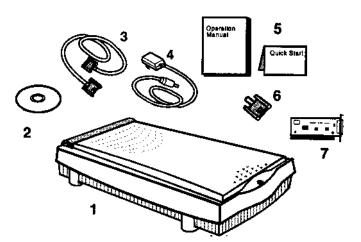
## **Preparation for Installation**

## Unpacking the Scanner

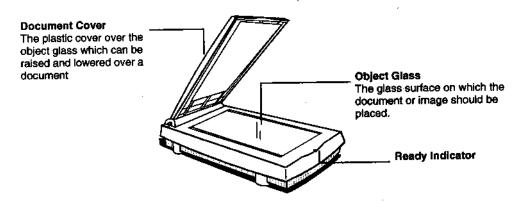
Please remove all packing materials from the scanner. Check if any damage has occurred during shipment while you are unpacking the scanner. If you notice any damage, notify your dealer at once. Remember to save all shipping and packing materials if you want to transport the scanner in the future.

Please find the following items in your scanner box:

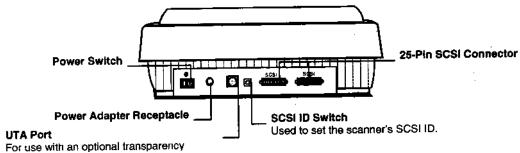
- 1. UMAX Color Scanner
- 2. UMAX Scanner CD
- 3. SCSI Cable
- 4. Power Adapter
- 5. Manuals
- 6. SCSI Terminator
- 7. SCSI Interface Card (for PC only)



## **The Front View**

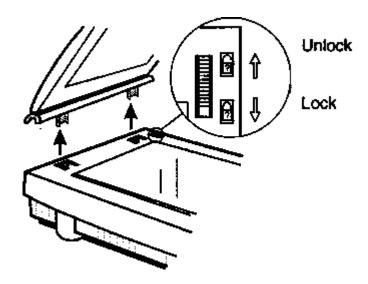


## The Rear View



## **Unlocking Your Scanner**

Before using your scanner ensure that the carriage lock is in the unlocked position. Likewise, turn the restraint toward to the locked position, to avoid damaging the internal optics during transportation.



# ! Warning:

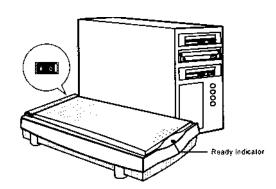
You must lock your scanner before transporting it, failure to do so can cause extensive damage to your scanner. Ensure that the scanner's optical assembly is secure and the lamp is in the home position before locking your scanner.

## **Power on Your Scanner**

Once the scanner has been unpacked and the optical assembly has been unlocked, the scanner is ready to perform this test.

To power on the scanner, do the following:

- 1. Connect the power adapter to the scanner.
- 2. Connect the power adapter to a wall outlet.
- Turn on the scanner's power switch.
   Wait for the Ready indicator to glow. When the Ready indicator has stopped blinking, the scanner is ready for you to scan images.
- 4. Your hardware is installed. Once your software is installed, you can begin scanning.



## **Changing the SCSI ID Number**

If you have other devices connected to your SCSI port, you need to check and see what SCSI ID's are already used. The scanner is preset at the factory to SCSI ID 5.

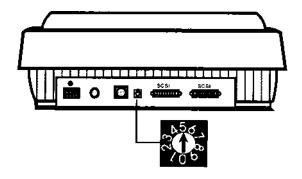
If, after checking other devices in the SCSI chain, you find that SCSI ID 5 is unused, you do not need to change the ID on the scanner and you can go ahead with the installation.

If, however, after checking other devices in the SCSI chain, you find that another device uses SCSI ID 5, you must change the SCSI ID on your scanner.

To change the SCSI ID, do the following:

- 1. Make sure the scanner is turned off.
- 2. Gently turn the switch until an unused number appears in the switch's notch.

Note: Do not use SCSI ID 8 and 9 on your scanner. They are for factory use only.

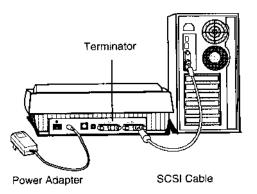


## **Installation on Macintosh**

## Connecting the Scanner and your Macintosh

When the scanner's SCSI ID is properly set (see "Changing the SCSI ID Number" section for instructions on setting the scanner's SCSI ID), do the following to connect the scanner to your computer:

- 1. Turn off your computer and unplug the power cord.
- 2. Locate the SCSI Cable. Connect the 25-pin cable connector to the Macintosh SCSI port.
- 3. Attach the other end of the cable to one of the SCSI ports on your scanner.
- 4. If your scanner is not chained to other SCSI devices, please connect the Terminator to the remaining SCSI port of your scanner.
- 5. Connect the power adapter to the scanner.
- 6. Turn on the computer.



## Installing the Scanner Drivers for Macintosh

Install the image editing software included with your scanner. Refer to the instructions included with the appropriate software.

To install the scanner drivers, do the following:

- 1. Turn on your computer.
- 2. Install your image editing software first. (e.g. Photoshop, PhotoDeluxe, etc.)
- 3. Insert the UMAX Scanner CD into your CD-ROM drive.
- 4. Double-click on the UMAX Scanner CD Installer icon.
- 5. Follow the on-screen instructions to complete the installation.
- 6. Procedures on how to use the bundled software are provided in the Quick Start Guide.



## **Installation on PC**

## Interface Card Installation

Follow the steps below to install the card into an available 16-bit expansion slot\*:

- 1. Turn off your computer and unplug the power cord.
- 2. Remove the housing cover from the computer. (Follow the instructions provided in the computer's reference manual).
- 3. Unscrew and remove the expansion slot cover from an empty expansion slot.
- 4. Gently insert the interface card into the slot until it is firmly seated in the slot.
- 5. Secure the card's mounting bracket in place with the screw from the expansion slot cover.
- 6. Replace the housing cover. (Following the instructions provided in the computer's reference manual).

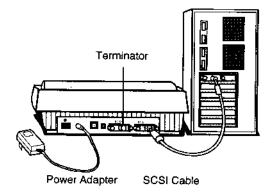
Warning: Static electricity can cause severe damage to your computer system and scanner, review the section entitled "Maintenance: Static Electricity Precautions."

\* Your scanner connects to your computer via a SCSI connection. A proprietary card is provided to make this connection. If you have an Adaptec compliant card already installed in your computer go to next section "Connecting the Scanner and your PC".

## Connecting the Scanner and Your PC

Now that the interface card has been installed in the computer, the scanner can be connected. To connect the scanner and computer, do the following:

- 1. Turn off your computer and unplug the power cord.
- 2. Locate the supplied SCSI Cable. Connect the 25-pin cable connector to the interface card you just installed in your PC.
- 3. Attach the other end of the cable to one SCSI port of your scanner.
- 4. If your scanner is not chained to other SCSI devices or is the last device on the SCSI chain, please connect the Terminator to the remaining SCSI port of your scanner.
- 5. Connect the power adapter to the scanner.
- 6. Turn on the scanner
- 7. Turn on the computer.



## Installing the Scanner Drivers for Windows

Install the image editing software included with your scanner. (Refer to the instructions included with the software). To install the scanner drivers, do the following:

- 1. Insert the UMAX Scanner CD into your CD-ROM drive.
- 2. Run Windows.
- 3. Choose the File—Run command of the Windows Program Manager.
- 4. In the Command Line of the Run dialog box, type D:\SETUP (where D indicates the CD-ROM drive). If your CD-ROM is on another drive, please enter the appropriate drive preceding the [\SETUP] command. For example, type F:\SETUP if you are using CD-ROM drive F.
- 5. Click OK. The UMAX Scanner Setup dialog box appears.
- 6. Follow the on-screen instructions to complete the installation.

#### For Windows 95 and Windows NT 4.x Users:

- 1. Insert the UMAX Scanner CD into your CD-ROM drive.
- 2. Click on the Start button on the taskbar and select the Run Command.
- 3. In the Command Line of the Run dialog box, type D:\SETUP (where D indicates the CD-ROM drive). If your CD-ROM is on another drive, please enter the appropriate drive preceding the [\SETUP] command. For example, type F:\SETUP if you are using CD-ROM drive F.
- 4. Click OK. The VistaScan Setup dialog box appears.
- 5. Follow the on-screen instructions to complete installation.

## **Completing your First Scan**

#### A. Original Image Placement

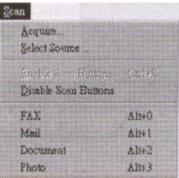
- 1. Raise the scanner's document cover.
- 2. Place the photograph and document face down on the scanner. 'Center the document along the **center** mark.
- 3. Lower the document cover.



#### **B. Start Your First Scan**

For Windows Users:

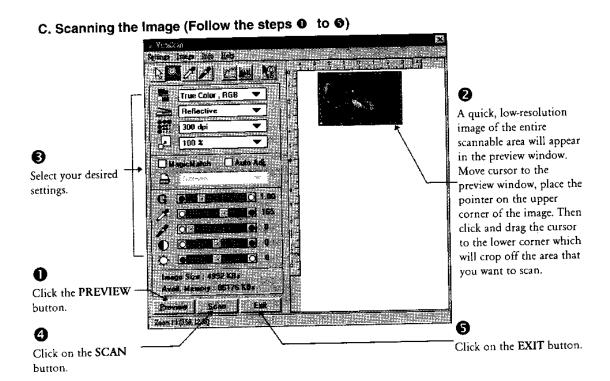
- 1. From Windows, launch the scanning software (e.g. Presto! PageManager).
- 2. Pull down the Scan menu.
- 3. Choose "Select Source".
- 4. Select "VistaScan" (VistaScan32 for Win95) as the TWAIN source. (You only need to do this once).
- 5. Pull down the "Scan" menu again.
- 6. Select "Acquire" to activate the scanning dialog box. This will bring you to VistaScan (Shown in "C").



#### For Macintosh Users:

- 1. Launch the scanning software which supports the plug-in modules.
- 2. Pull down the "File" menu.
- 3. Select the "Acquire" command without releasing the mouse button. A submenu will appear.
- 4. Choose "VistaScan" submenu. This will bring you to VistaScan (Shown in "C").





## **Troubleshooting**

UMAX scanners are designed to be reliable and easy to install. If, however, you have a problem with your scanner, these troubleshooting steps should indicate the cause of the problem.

## If the scanner lamp flickers, is dim, or fails to come on:

The scanner lamp is failing or has failed and needs to be changed. Please contact your dealer or UMAX Technical Support.

# If the indicator comes on, but software returns "scanner link failed", or similar message:

- 1. Make sure the cable is connected properly.
- 2. Check the Installation procedures to make sure you followed all of the instructions. Macintosh users should pay special attention to the setting of the SCSI ID number.
- 3. Disconnect all of the SCSI devices. Connect only the scanner to see if there is an address conflict with the scanner and your computer. Once your scanner is working, connect the other SCSI devices one-by-one to see which one caused the problem.
- 4. Check the terminators and the cables.

Note: If you are having intermittent problems either with the link between the scanner and your computer or re having intermittent problems with the results of your scans, try installing an external SCSI terminator.

#### If All Else Fails

If the above solutions do not resolve the problem, contact your dealer or UMAX Technical Support. Be sure to have the following information ready:

- 1. The scanner model you are using.
- 2. The version number of the scanner driver. (Located on the front of the CD)
- 3. The computer model you are using.
- 4. All SCSI device ID's that you are using.
- 5. The application software packages that you are using.
- 6. Error codes or messages seen.
- A description of what you were doing at the time of the malfunction so that the problem can be recreated.
- 8. Other observations that may aid the technician in identifying the problem and solution.

#### Maintenance

With the exception of periodic cleaning or lamp replacement, the scanner is virtually maintenance free. The following sections give the procedures for basic maintenance of the scanner.

#### Static Electricity Precautions

Static electricity is a constant danger to computer systems. The charge that can build up in your body may be strong enough to damage electronic components on the scanner's printed circuit board or the computer's interface card. Therefore, it is important to observe basic precautions whenever handling electronic components for your computer. Although areas with high humidity are much less prone to static electricity, it is best to always take precautions against accidental damage that can result in expensive repairs.

The following measures should generally be enough to protect your equipment from static discharge.

- Discharge any static electricity that may have built-up in your body by touching a grounded or anti-static surface. For example, touch some large metal object or the silver-toned expansion slot covers at the rear of your computer's case. Be sure to do this immediately before removing any components from their anti-static bags.
- When handling any electronic components, be sure to carefully avoid touching any metal part of
  the component. Avoid touching any of the gold "fingers" that plug into the expansion slot. It is
  best to handle system components either by their edges or by the mounting bracket which attaches
  to the slot opening in the rear of the case.

Follow the above to the best of your ability. Excessive caution is not necessary, simply take reasonable care.

#### Cleaning

Regularly cleaning the object glass will ensure that dirt or smudges will not reduce the quality of your scanned images. Before you clean the glass, make sure the scanner is turned off and the power adapter is unplugged.

Clean object glass and document cover with a soft damp cloth and a mild detergent or alcohol.

Warning: Do not spray the cleaning fluid directly on the object glass. Spraying the liquid directly on the glass may cause the liquid to penetrate the seams around the glass and contaminate the mirrors and lenses inside the scanner. Please be sure you spray the liquid on the cleaning cloth and then wipe the glass clean.

# **Specifications**

Maximum Scannable Area	
Optical Resolution	600 x 1200 dpi
Maximum Resolution	
Scanning Density	1 dpi to 9600 dpi, via Ultra View Technology
Color Scanning Method	Single pass with color CCD
Warm Up Time	
Sample Depth Color Mode	
Grayscale Mode	
Scanner Settings Scaling	% to 200% in 1% Increments at 1200 dpi Resolution
Highlight/Shadow	
Contrast/Brightness	+100% ~-100%
Gamma Curve	
Data Output Color Mode	
Grayscale Mode	
Interface	Built-in SCSI II; Two ends of a 25-pin Connectors
Power Requirements Voltage	
Power Consumption	
Environmental Ranges Operating Temperature	
Relative Humidity	
Dimensions	
Net Weight	5.8 Kg
Systems Supported	PC and Macintosh
Options	Transparency Adapter (Model UTA-2A)

## Glossary

Apple-Compatible Driver: A Macintosh system extension that addresses the UMAX scanner in

Apple Scanner emulation mode. This is used for programs that do not support the Photoshop Plug-in protocol or do not drive the scanner

directly.

Application Software: Software that is used to perform a specific function, e.g., image

processing, OCR (Optical Character Recognition), or DTP (Desktop

Publishing).

ASPI: Advanced SCSI Programming Interface; SCSI communication standard

developed by Adaptec.

Black and White: A 1-bit image file capable of only displaying black and white image

data with no intermediate gray levels.

DIP Switches: Small switches mounted in or on computer equipment that set certain

perimeters.

Document Cover: The plastic cover that is lowered over a document on the scanner's

object glass.

Expansion Slot Cover: A metal or plastic dust cover that covers the exterior "hole" in an

expansion slot.

Expansion Slot: A connector and bracket system in a computer into which an expansion

or interface card can be inserted to add functions to a computer system.

Folder: An electronic storage area used to store and organize files and other

folders and is often represented on a computer screen by a folder-like

icon.

Grayscale: An 8-bit image file capable of representing all tones and colors in the

image using 256 shades of gray.

I/O Base Address:

An address that is used for communication between a host computer

and an expansion or interface card. All cards in a computer system

must be set to different I/O addresses.

Icon: The graphical representation of a computer file or piece of computer

software.

Indicator Panel: The area of the scanner that contains the LED indicators to show

scanner status.

Interface Card: A card that is inserted into an expansion slot to allow the connection of

a peripheral device to a PC.

Non-TWAIN Driver: An interfacing system that does not follow the TWAIN standard and is

designed for a specific software package and a specific image input

device.

Object Glass: The tempered glass of the scanner where documents or objects to be

scanned are placed.

Optical Assembly: The component system of the scanner that contains all of the optical

components. Sometimes referred to as a carriage or carriage assembly.

Peripheral Device: A device attached to a computer that adds functionality to a computer

system.

SCSI Chain:

Ready Indicator: The indicator that glows when the scanner's power cable is connected

to the scanner and a "live" outlet and the power switch is turned on. One or more SCSI devices connected to the same SCSI controller.

SCSI Device: A device which connects to a computer using the SCSI interface.

SCSI ID Switch: The switch on most external SCSI devices which is used to set the SCSI ID.

Terminator: An electronic component that absorbs stray signals in a SCSI chain of

computer equipment to ensure reliable

TWAIN: A standardized interfacing system that allows many different software

applications to access many different image input devices. TWAIN is currently more popular on the Windows platform than it is on the

Macintosh.

TWAIN Compliant: Any software or image input device that conforms to the TWAIN

standard.

UTA: UMAX Transparency Adapter; a scanner option that consists of

additional hardware allowing the scanning of transparent originals,

such as slides or X rays.