

# ThunderScan<sup>®</sup>

FOR APPLE<sup>®</sup> II

## Quick Reference Guide

### Screen Save formats for use with other programs

|                           | <b>Program</b>                                                                                    | <b>Display Format</b>                                                                                                            | <b>Screen Format (GS only)</b>                                                                        |
|---------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| <b>Desktop publishing</b> | Graphic Writer<br>Medley<br>Publish It!<br>Springboard Publisher<br>AppleWorks*<br>MultiScribe GS | Ultra Res, Super Res<br>Ultra Res, Super Res<br>Double Res, High Res<br>High Res<br>Double Res, High Res<br>Ultra Res, Super Res | Paintworks (screen only)<br>Paintworks (screen only)<br><br>Deluxe Paint II, Paintworks (screen only) |
|                           | Personal Newsletter                                                                               | Double Res                                                                                                                       |                                                                                                       |
| <b>Painting</b>           | Paintworks Gold                                                                                   | Super Res                                                                                                                        | Deluxe Paint II, Paintworks (screen and paint)                                                        |
|                           | Paintworks Plus                                                                                   | Ultra Res, Super Res                                                                                                             | Deluxe Paint II, Paintworks (screen and paint)                                                        |
|                           | Deluxe Paint                                                                                      | Ultra Res, Super Res                                                                                                             | Deluxe Paint II, Paintworks (screen only)                                                             |
|                           | 8/16 Paint                                                                                        | Double Res, High Res, Ultra Res, Super Res                                                                                       | Deluxe Paint II, Paintworks (screen and paint)                                                        |
|                           | DazzleDraw                                                                                        | Double Res                                                                                                                       |                                                                                                       |
|                           | MousePaint                                                                                        | High Res                                                                                                                         |                                                                                                       |
| <b>Drawing</b>            | Top Draw                                                                                          | Super Res                                                                                                                        | Deluxe Paint II, Paintworks (screen only)                                                             |

\* requires GraphMerge, a Pinpoint Desk Accessory

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### Setting up ThunderScan on an Apple II

- Shut off your Apple II and everything connected to it.
- Be sure your printer cable is connected to a serial card on a IIe or the built-in printer port on a IIc, IIc Plus or IIgs.
- Connect the scanner to the game I/O port at the back of your Apple II.

### Fast Track to Scanning

#### Install the scanner

- Make sure your printer is turned *off*.
- Take out the ribbon cartridge and insert the scanner cartridge. Make sure both sides of the scanner snap onto the ribbon deck.
- Turn your printer on to make sure the scanner is properly installed. Turn your printer off again.
- Separate the plexiglass window from the ImageWriter II printer cover and install the lower plastic portion on your printer.
- If you have an ImageWriter I or Wide-carriage ImageWriter, install the scan key or special Thunderware printer cover. (Before installing the scan key, read the precaution in *Installing ThunderScan*, Chapter One of the *User's Guide*.)

#### Back up the disk

Make a backup copy of ThunderScan. Use the backup as your working copy, or copy the application on your hard disk.

#### Prepare the printer

- Insert your original image for scanning.
- If you're scanning with an ImageWriter II, adjust the paper thickness lever for maximum thickness.

#### Choose printer and port

Boot up the disk and choose C (for Configure) from the Main Menu. Configure ThunderScan for the type of printer and slot you're using. Press **Return** .

# ThunderScan for Apple II

## Prepare to Scan

Choose **N** (for New Scan) from the Main Menu to begin the scanning process. Follow the instructions on the screen to select the following: an area for scanning, the desired format and DPI setting, and a scan volume for storing the image. Press **Return** to continue.

## Focus the scanner

- Follow the instructions on the screen to focus the scanner on your original.

## Prepare the printer for scanning

- Install the lower portion of the printer cover (if you have an ImageWriter II) or the scan key (if you have an ImageWriter I or Wide-carriage ImageWriter).
- Turn on the printer. Make sure the select light is on and the red error light is off.

## Begin the scan

- Follow the instructions on the **Preparing the Printer to Scan** screen.
- Follow the instructions on the **Preparing to Start the Scan** screen.

As the scanner begins to travel back and forth, the image appears on the screen.

## Polish the image

- Use brightness and contrast controls to enhance the appearance of your image using the **B** and **C** keys.
- Press **F** (for Filter) to use ThunderScan's filter controls to further enhance your image with colors.

## Save the image

- Return to the Main Menu and press **S** to save your image as a Scan Image. Only a Scan Image can be reloaded into the ThunderScan program.
- To use an image with other programs, also save your image as a screen file. Press **S** while displaying your image in the desired format and follow the instructions on the screen.

## Print the image

- If you're using an ImageWriter II, you may wish to reset the paper thickness lever to its original setting for printing.
- Choose **P** (for Print) from the Main Menu.


- Follow the instructions on the **Prepare to Print** screen to select a filter, density, and mode.
- Press **Return** and follow the instructions on the **Getting Ready to Print** screen.

**Note:** To increase the size of a printed image, increase the DPI setting before scanning. If you wish, make adjustments to the printed image by redisplaying it and using the brightness and contrast controls to change it to your satisfaction.


### Disconnect the scanner

After you finish scanning, be sure to disconnect the scanner from your Apple.

### Short Cuts

- Hold down the **Option** or  key while using the arrow keys to scroll your image four times faster than the normal scrolling time.
- If you're rescanning an image, press ESC while at the **Focus** screen to avoid having to refocus.

### Keyboard Commands Available While Displaying Images

| Press                                                                               | For                  |
|-------------------------------------------------------------------------------------|----------------------|
| <b>B</b>                                                                            | Brightness           |
| <b>C</b>                                                                            | Contrast             |
| <b>D</b>                                                                            | Display              |
| <b>F</b>                                                                            | Filter               |
| <b>H</b>                                                                            | Histogram            |
| <b>S</b>                                                                            | Save as Screen Image |
| <b>ESC</b>                                                                          | Return to Main Menu  |
|  | Scroll image         |