ThunderScan
for Apple® II

Please Read Me First

ThunderScan GS Setup
and
User's Guide Errata

Thunderware

THUNDERSCAN GS SETUP

About ThunderScan Software

ThunderScan comes with two disks. The 5.25 inch disk contains the Thunder-Scan program. The 3.5 inch disk contains the ThunderScan and ThunderScan GS programs. ThunderScan operates on the Apple IIe, IIc, IIc Plus, IIGS and Laser 128 EX (ROM version 4.5 is required). ThunderScan GS operates on the Apple IIGS only and requires 512K or more of memory.

Getting Started

Read Chapter One of the *ThunderScan User's Guide* first. It explains how to connect ThunderScan to your computer and prepare your printer for scanning. It also explains how to make a backup of the ThunderScan program disk.

Using ThunderScan on the Apple IIGS

If you are running ThunderScan on the Apple IIGS, a program launcher will appear when you start your computer with a copy of the 3.5 inch ThunderScan program disk. The program launcher lets you choose between the versions of ThunderScan and exiting to ProDOS 16. When you quit from either version of ThunderScan, the program launcher is automatically loaded. The program launcher will not appear if you are running ThunderScan GS from a hard disk.

Using ThunderScan GS with 512K

If you have 512K of memory, you will encounter printing problems with ThunderScan GS. Use a copy of the ThunderScan program disk to scan with either ThunderScan or ThunderScan GS. Then, print your images using ThunderScan.

Using ThunderScan GS with 768K or more

If you have 768K of memory, use a copy of the ThunderScan program disk to scan and print. You will need 1024K or more of memory to run GS/OS and ThunderScan GS.

Tile Printing Problems with ThunderScan GS

Due to memory constraints, you may experience problems when attempting to tile print images with ThunderScan GS. If you experience problems tile printing, try the following:

- Turn *off* your RAM disk in the control panel, turn off your computer, wait ten seconds and reboot.
- If you are using GS/OS, try starting your computer with a copy of the ThunderScan program disk instead.
- Re-scan the image at a lower DPI or scan a smaller area.

Using GS/OS and ThunderScan GS on a 3.5 inch disk

If you want to use GS/OS and ThunderScan GS on a 3.5 disk, you will need to setup a startup disk as well as a data disk to store images. Follow these instructions to make your GS/OS startup disk:

1) Boot your computer with a locked **Apple IIGS System** disk (**System.Disk**).
2) From the Finder, format a blank disk and name it **TSCAN.GSOS**.
3) Run the **Installer** program found on the **Apple IIGS System Tools** disk (**System.Tools**).
4) Select **Latest Sys. Files (No Finder)**, and any other system files you may need (ie. **SCSI Hard Disk** or **UniDisk 3.5**) and click on the **Install** button to put the files on the **TSCAN.GSOS** disk.
5) Quit the **Installer** program. Double-click on the **TSCAN.GSOS** disk icon and throw away the following files and folder: the **P8** file (in the System Folder), the **Icons** folder and the applications **BASIC.System** and **BASIC. Launcher**.
6) Insert a copy of the **ThunderScan Program disk** (**TSCAN**) into a drive.
7) Open the folder named **THUNDERSCAN.GS** and copy all of the files in the folder to the root level of the **TSCAN.GSOS** disk.
8) Rename the **THUNDERSCAN.GS** file on the **TSCAN.GSOS** disk to **TSGS.SYS16**.
9) Shut down and restart your IIGS with the **TSCAN.GSOS** disk.

When you set up a ThunderScan GS startup disk as explained above, there won't be enough room for the Finder. This means you can't use the startup disk to run other applications. Follow these instructions to either shut down your computer or run another application:

1) Save your scan image.
2) Wait for all disk activity to stop.
3) Eject the **TSCAN.GSOS** disk.
4) Either turn off your computer or insert another **Apple IIGS System** disk into the startup drive and restart your IIGS.

Differences in Printing Between ThunderScan and ThunderScan GS

ThunderScan prints images at a reduced size. Each pixel on the screen is represented by one dot from the printer. ThunderScan GS prints images at the actual size as they appear on the screen. Each pixel on the screen is represented by a series of dots from the printer.

To print an image at original size with ThunderScan, scan at 72 DPI in the Special format. When printing with 50% reduction, scan at 144 DPI in the Special format. To print an image at its original size with ThunderScan GS, scan at 40 DPI in the Super Res format or 80 DPI in the Ultra Res format.

USER'S GUIDE ERRATA

Page 20 of the ThunderScan User's Guide should read...

The approximate DPI settings for scanning chart on page 20 should read:

Format	DPI
High Res	60
Double Res	125
Super Res	72

Page 60 of the ThunderScan User's Guide should read...

The last sentence in the second paragraph on page 60 should read "the sensor may be misaligned with the *hole* in the paper guide."

Using a Super Serial Card on the Apple IIe

If you're using an Apple IIe configured with an Apple Super Serial Card, the Gray print driver may not print correctly to an ImageWriter I or wide-carriage ImageWriter. The gray print mode should print correctly with an ImageWriter II printer. The *Halftone* and *Line Art* print modes should work fine with this configuration.

Printing with ThunderScan version 1.2

Some images may look fine when displayed on screen but appear snowy or clouded when printed. Increase the contrast and brightness setting slightly before printing if you experience this problem.

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609-0506B

21 Orinda Way, Orinda, CA 94563 USA
415/254-6581 • FAX 415/254-3047