

Read Me
for
Kodak ML-500 digital photo printer

February 06, 2004

Printer Driver for Macintosh OS X
Version 1.1.0

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Introduction:

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The Kodak ML-500 digital photo printer allows you to create photographic quality prints from desktop applications running on Macintosh OS X.

Also refer to the ML-500 Quick Setup Guide and Operator Guide for Windows Systems (CD 1 & 2) for detailed instructions to connect and setup your ML-500 printer on a Windows server.

Note that Windows 2000 Server, or Advanced Server is required in order to share the Windows Source Folder using AppleTalk services. If you have Windows 2000 Professional or XP Professional, a third-party application like PC MacLAN can be used to share the Source Folder.

System Requirements:

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Minimum:

Macintosh G3 - 300 MHz

128 MB RAM

OS X 10.2.3 or higher

Recommended:

Macintosh G4 - 400 MHz or greater

256 MB RAM or greater

OS X 10.2.6 or greater

Features like "packages" are memory-intensive tasks and performance improves with increased memory. If you plan to print a lot of packages, it is recommended to increase memory to 512 MB and not run other applications other than the printing application.

Quick Start:

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1. Install the printer driver by double-clicking the "*Get Started*" program on the CD or the ML-500.pkg file downloaded from the Kodak web site. (If needed, see the detailed installation instructions below.)
2. Share the server's Source Folder on the Windows computer using "*File Services for Macintosh*". (If needed, see the detailed instructions for sharing the Window's Source Folder below.)
3. Mount the shared source folder on the Mac desktop by using the "*Connect to Server*" item in the "*Go*" menu.
4. After installing the Mac driver, open "*Print Center*" ("*Printer Setup Utility*" for OS X 10.3) to add the ML-500 printer to the Printer List. After clicking the "*Add*" button, choose "*Kodak File*" as the type of printing protocol in the top drop-down

box and then click the "*Select*" button.

5. This should bring up a standard browse folder dialog. Browse and pick the shared Windows source folder and click the "Choose" button.

6. The folder name is now shown as selected.

7. Click the "*Add*" button to complete adding the ML-500 printer to the printer list.

8. There should now be a new printer in the printer list with the same name as the selected folder.

Note: the Printer Setup Utility sometimes disappears (quits) before the selected folder is added to its list of printers. If this occurs, relaunch Printer Setup Utility and repeat steps 4 through 8.

9. When an image/document is printed from any application, it is automatically "saved" as a Kodak print job in the Windows source folder. The print server queue settings will determine when the job is printed.

Installation and Uninstallation:

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For Mac OS X Versions 10.2.3 (or higher), do the following to install the printer driver software:

- Installation from the CD

1. Double-click the "*Get Started*" program on the CD.
2. Choose the appropriate language.
3. Choose "*Software*"
4. Choose "*Printer Driver*" to launch the installation program.
5. Enter the Administrator name and authorization password.
6. Respond to the ReadMe and License displays.
7. Select the startup disk volume for the destination.
8. Click "*Install*" or "*Update*".
9. The Installer will then prompt you to restart the computer.

Note: the version 1.0 driver on the CD does not support OS X 10.3.

- Installation from the Kodak web site

1. Download and expand the ML-500 OS X driver in a temporary folder
2. Double-click the "*ML-500.pkg*" installer file.
3. Enter the Administrator name and authorization password.

4. Respond to the ReadMe and License displays.
 5. Select the startup disk volume for the destination.
 6. Click "*Install*" or "*Update*".
 7. The Installer will then prompt you to restart the computer.
- Note: the version 1.1 driver on the web does support OS X 10.3.*

To remove the printer:

Open "*Print Center*" (or "*Printer Setup Utility*") and delete the printer from the Printer List.

To remove the printer driver:

While it is not normally necessary to remove the printer driver, this can be accomplished by first removing the printer from *Print Center/Printer Setup Utility*. Then remove the folder named "*ML500*" from within the *Library->Printers->Kodak* folder on the volume used to start up your Macintosh computer. (You may need to change the permissions of the directory or log in as *root* to remove this directory.)

Sharing the Windows Source Folder: (Windows 2000 Server or Windows 2000 Advanced Server)

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The Windows Source Folder refers to the folder location on the Windows system where the ML-500 jobs are queued before printing. This 'hot folder' must be shared so Mac OS X clients with read/write permissions can access it. The OS X driver can then be set up to directly print jobs to the source folder.

You must have a Windows 2000 Server or Windows 2000 Advanced Server to share the source folder using File Services for Macintosh using the AppleTalk Protocol.

To enable the File Services for Macintosh, do the following:

1. Right-click "*My Network Places*" and choose "*Properties*"
2. Select "*Advanced*" in the menu bar and choose "*Optional Networking Components...*"
3. The 'Windows Optional Networking Components' Wizard is displayed.

4. Choose "*Other Network File and Print Services*" by enabling the checkbox and click the "*Details*" button.
5. Make sure that the subcomponent "*File Services for Macintosh*" is selected. Click the "*OK*" button and all the necessary files will be copied to your system. Note: You may be prompted for your Windows Server CD after you click "*OK*".

To set up the shared source folder, do the following:

1. Right-click "*My Computer*" and choose "*Manage*"
2. Expand the "*Shared Folders*" In the left panel and select "*Shares*"
3. Right-click and choose "*New*", "*File Share*"
4. Browse to the source folder that has been set up to queue ML500 print jobs.
5. Type a share name that is short and meaningful. e.g. ML500
6. Make sure "*Macintosh Share*" is selected with the check box.

PC MacLAN installation instructions for Windows 2000 Professional and XP Professional

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1. Insert the PC MacLAN CD; the install screen will automatically launch.
2. Choose the option to install PC MacLAN. Follow the Install Wizard as per the PC MacLAN provided Getting Started Guide. You will be asked to reboot your system at the end of the install. After the system has been re-booted, you will be brought into the PC MacLAN Setup Wizard.
3. During the setup wizard you can set the items you wish to share. Select the "Current custom configuration" radio button, and browse to the ML-500 Source Folder that was created while installing the Kodak ML-500 Printer Utilities application.
4. Once the folder is selected, the setup wizard gives the option to set privileges for owner, group, access rights etc. Select the appropriate users/groups and associated access levels. This will complete the Setup Wizard.
5. Once the setup wizard is complete, select Start-->All Programs-->PC MacLAN-->File Server.
6. When the PC MacLAN File Server window appears, select Configure-->Users and Groups...
7. The Users & Groups window will appear. Select and double-click the desired name(s) from the users list. This will open the Set Password dialog. *All passwords must be set within PC MacLAN for each user.*
8. From the Mac client, select Go-->Connect to Server.
9. Select the name of the Windows computer that PC MacLAN was just installed

on. You can obtain the name of the computer by right-clicking on the Windows “My Computer” icon, and selecting Properties from the drop down menu. This will open the System Properties window. Navigate to the Identification tab in order to obtain the computer name.

NOTE: From the Mac client, the Windows computer must be selected through the AppleTalk zone.

11. While connecting to the Windows computer from the Mac client, the user will be prompted for the username and password. Enter the username and password that was set, and choose the shared ML-500 Source Folder from the resulting list. Selecting this folder will mount it to the Mac client.

Known Problems and Limitations:

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Page Format

Custom Page Format is available in the driver only in Mac OS X 10.2.3 and later. 8.5 x 14 paper size is required when printing standard packages. Multiple pages per sheet printing are not available when printing packages. If the width is greater than 8.5 inches, the image is truncated.

Use of custom page sizes

To define a custom page size (up to 108" in length) choose "Custom Page Size" from the Settings menu of Page Setup dialog. Click the "New" button, type a name for the custom page, and fill in the paper sizes and paper margins.

In order for the form to show up in the Paper Size list for selection during printing, the new form must be defined as follows:

- Width can range from 1 inch to 8.52 inches (2.54 - 21.64 centimeters)
- Height can range from 1 inch to 108 inches (2.54 to 274.32 centimeters)

The Save button will save the custom page that is created. Note that in Mac OS X 10.2.3, custom pages will show up in the Page Size drop-down menu along with the fixed paper sizes, when "Any Printer" is selected in the "Format for:" menu.

Use of logos

The printer driver is not always able to apply the logo selected in the Logo pane due to file or folder permissions problems. (The application has the necessary permissions to open the logo for the printer driver, but the printer driver is unable to do so after the Print dialog has been dismissed.) OS X 10.3 seems to be more restrictive than OS X 10.2 in this regard. Logos on the desktop do not seem to work with either version of the operating system, and logos within folders on the desktop do not work with OS X 10.3. In our testing, both versions were able to use logos located within the user's Public folder, in the driver's Source folder, and on volumes other than the start-up volume.

Custom Packages

The printer driver is not always able to apply the custom package file selected in the Packages pane for the same reason noted in "Use of logos", above. If a custom package file does not print, try moving the custom package file to a new volume or folder.

Errors During Printing

Make sure the job threshold set in the print utilities is greater than one (10 is recommended). If the Windows Server does not print the jobs and displays an error message, click the "Suspend" button in the print utilities (red traffic light icon), queue up the print jobs in the source folder, and resume printing by clicking the "Resume" button (green traffic light icon).

Following Restarts

After starting or restarting the Mac computer, the Windows server will need to be remounted (via the Finder's "Go/Connect to Server..." menu). The Windows shared source folder can be automatically remounted after restarting the Mac computer by adding it to the Login Items under System Preferences.

Truncated Images

An occasional problem has been observed where an image may be truncated. If this is observed, select "Page Setup" and then select the ML500 printer under "Format for:" Choose an appropriate ML500 page size.

Color Management

The color management that the driver applies makes the image less saturated. This is because of the mapping of the colors to what the printer is capable of supporting. If you prefer not to apply the color management provided by the driver, follow the steps below:

1. Open the folder Library:Kodak:ML-500 on the hard drive. You should see 6 Kodak ML-500 driver files.
2. Press the Control key while clicking on the ML500ATPM.Plugin, and select "Show Package Contents" from the contextual menu.
3. Open the Resources folder that is within the Contents folder.
4. Rename the two ICM profiles, by adding an extra character like x to the name. (If you need to re-establish color management in the future, restore the file names the way they were originally installed).

Troubleshooting:

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If an error occurs during printing, the following workarounds are suggested.

- Change source folder access permissions for Owner, Group, and Others to Read & Write.
- Suspend the print server queue during printing or increase the threshold number of prints in the queue before jobs are printed.

If an error occurs during reinstallation, the following workaround is suggested

- Manually delete the *Library/Printers/ML500* folder and follow the installation instructions.

In case a job does not print, the following workarounds are suggested.

- Reprint the job.
- Reboot the Mac and reprint the job.
- Uninstall the driver on the Mac, reboot both the Mac and Windows Server and reinstall the driver.
- Print to a local folder on the Mac and then copy the jobs to the source folder on the server.

Support:

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Additional information about the ML 500 can be found at the Kodak web site at www.kodak.com

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