











## Help Contents

-  [Introduction](#)
-  [The MarkVision Display](#)
-  [How To...](#)
-  [Troubleshooting](#)
-  [Definitions](#)
-  [Trademarks](#)

## **Introduction**

-  [Using MarkVision Help](#)
-  [MarkVision Overview](#)
-  [How MarkVision Determines Available Printer Drivers](#)
-  [How MarkVision Finds Printers](#)

## **The MarkVision Display**

- ➡ For Bidirectional Printers
- ➡ For Non-Bidirectional Printers
- ➡ MarkVision Menus
- ➡ MarkVision Buttons
- ➡ List of Printers
- ➡ Printer Picture and Details View
- ➡ Operator Panel Display
- ➡ Printer RAM Information
- ➡ Status Bar

## How to...

- ➡ [Set Up Your Printer Quickly and Easily](#)
- ➡ [Install MarkVision on a Network](#)
- ➡ [Change MarkVision Settings](#)
- ➡ [Control MarkVision Sounds](#)
- ➡ [Control Windows Sounds](#)
- ➡ [Print Using Drag and Drop](#)
- ➡ [Set the Default Windows Printer](#)
- ➡ [Access Intellifont for Windows](#)
- ➡ [Determine NPA Mode and Advanced Status](#)
- ➡ [Monitor Status for Multiple Bidirectional Printers](#)

## Troubleshooting



Problems



Error Messages

## **Trademarks**

Windows is a trademark of Microsoft Corporation.

PCL® is a registered trademark of the Hewlett-Packard Company.

Other trademarks are the property of their respective owners.



MarkVision and MarkNet are trademarks of Lexmark International, Inc.

Copyright © 1994, 1995 Lexmark International, Inc.

## Using MarkVision Help

### To...

Search for a topic

### Do the following:

1. Click Search.
2. Enter a term in the Search dialog box.
3. Click Show Topics.

Go back to the topic you just viewed

Click Back.

Return to the main Table of Contents

Click [Contents](#).

Get more information or a definition for a term

Click hot text or a hot graphic (underlined words or phrases). The mouse pointer changes from an arrow to a pointing hand when it is over hot text or graphics.

Get Help on a tab, dialog box, or message

Click Help in the tab, dialog box, or message.

**or**

Click an option in the tab, dialog box, or message and press F1.

Get more information about using Help

Press F1 when online Help is displayed.

**or**

Click How To Use Help from the Help menu when online Help is displayed.

## MarkVision Overview

MarkVision is a Windows 3.1 program that provides printer configuration and status information and gives you control over your Lexmark Optra E LaserPrinter by using the bidirectional communication capability of the printer. It works with printers connected to your workstation directly, and through Novell NetWare, IBM DOS LAN Requester, MS LAN Manager Requester, or Windows for Workgroups LAN Requester.

MarkVision displays information about printers attached to your system and also lets you control printers attached to your system from your PC. Choose a printer button from the left side of the main MarkVision display. If MarkVision is unable to establish two-way communication with the selected printer, only some printer status and control functions are available. With MarkVision you can:

- View the physical configuration of your printer.
- Be alerted to any printer error conditions and receive tips on how to fix them.
- View and change your printer operator panel.
- Monitor multiple printers at the same time.
- View and change printer driver settings for each printer.
- Quickly change the settings for all your printers using Quick Setup.
- Print using the Drag and Drop feature.
- Access the Network Utility for Windows to configure your network adapter.
- Access the [Windows Toolkit](#) to take advantage of other printer features.

MarkVision can monitor your printers:

- Maximized on the Windows desktop to allow full access to all of the MarkVision visual displays and functions as it monitors printer activity.
- Minimized as an icon on the Windows desktop to run in the background, continuously monitoring printer status, and alerting you if anything goes wrong.
- ➡ From Detailed Status windows (to conserve space on your Windows desktop) that can be opened to visually monitor the status of each printer.
- ➡ Opened as needed to check or change your printer status or setup.

If a function is not available on the printer, it is grayed out on the MarkVision display.



## How MarkVision Determines Available Printer Drivers

For a variety of reasons and at different times, MarkVision may ask you to confirm which Windows printer driver MarkVision should use. This confirmation is necessary because the Windows printer driver is a key part of printing in Windows. You must select the driver before MarkVision can continue its operation.

To control this prompting, either:

- ➡ Open the Windows Control Panel and remove unneeded printer drivers that are connected to the same output port.
- ➡ Use the MarkVision Drag and Drop function in the Configure menu.

## How MarkVision Finds Printers

MarkVision can identify the following locations where you may have a printer installed:

- ➡ Local PC attached Parallel Port (LPT) that Windows applications can access
- ➡ Local PC attached Serial Port (COM) that Windows applications can access

### Notes:

1. At least one Windows printer driver must be installed and connected for each parallel (LPT) or serial (COM) port that has a printer directly attached. To install printer drivers and connect them to your system ports, choose Windows Control Panel/Printers/Help.
2. The Windows Network system setting must be set to any of the available settings for versions of Novell NetWare, IBM DOS LAN Requester, MS LAN Requester, or Windows for Workgroups Requestor.
3. You can view and change the Network system setting through Windows Setup. You may need your Windows program diskettes to change the network settings.

If you are set up and connected to the network as described in item 3, the authority assigned to your network user ID along with the Show Printers setting determines the printers that are listed.

- ➡ User ID has administrator authority: All print queues available on the network are shown. The Show Network Print Queue List setting controls the printers that appear. Choose Show Printers from the MarkVision Configure menu to change this setting.
- ➡ User ID does not have administrator authority: The list of printer buttons includes only LPT ports that have been connected or redirected to network printers using the MarkVision Network menu. Use the Windows Network option to connect or redirect LPT ports to network printers. Choose Printers from the Windows Control Panel, then choose Connect.

You can prompt MarkVision to update its list of printer buttons in the following ways:

- ➡ Start MarkVision. Every time MarkVision starts as a Windows application, it searches for local PC attached printers. If you are logged on the network, MarkVision searches for directly attached network printers.
- ➡ Select Refresh Current Printer from the MarkVision Configure menu.
- ➡ Select Refresh All Printers from the MarkVision Configure menu.

### See Also:

Show Printers

Why Isn't MarkVision Finding the Printers on the Network?

## **Choose Next Printer with Error**

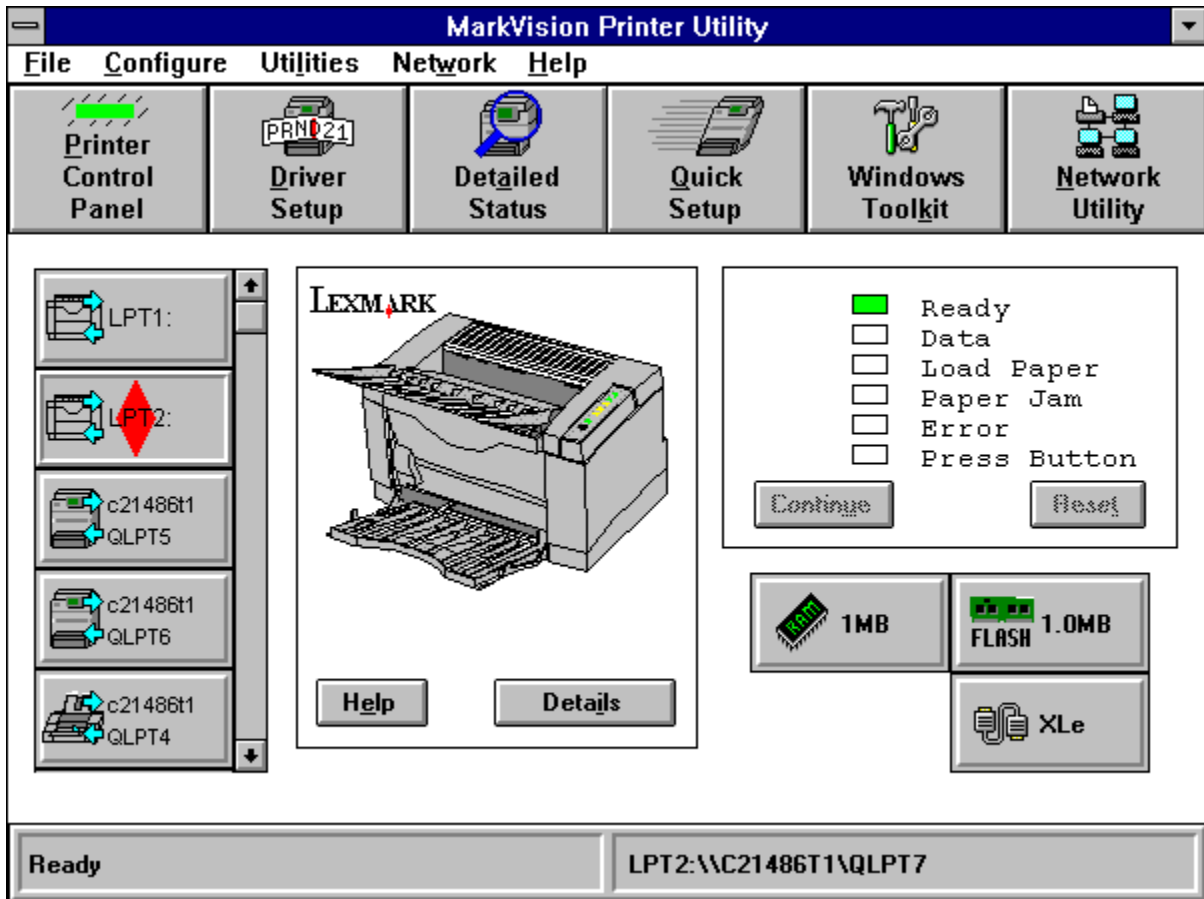
Choose this item to select automatically the next printer reporting an error condition in the MarkVision main list. If no printer is reporting an error, the currently selected printer does not change.

## The MarkVision Display for Bidirectional Printers

If you select a bidirectional printer, MarkVision displays text and a printer picture that shows the current printer configuration and installed printer options. A view of the printer operator panel display also appears and changes as the actual printer display changes.

For general information about MarkVision, see MarkVision Overview.

The MarkVision display for bidirectional printers is shown below. For information on a specific area of the display, click on that area. If you prefer to use the keyboard, tab to the area and press Enter.



## The MarkVision Display for Non-Bidirectional Printers

If you select a non-bidirectional printer, MarkVision displays a message confirming that you selected a non-bidirectional printer. MarkVision status and some control functions are not active for non-bidirectional printers. The printer picture, MarkVision printer display, and installed printer option markers are not available for non-bidirectional printers.






For general information about MarkVision, see [MarkVision Overview](#).

For information on a specific area of the MarkVision display, use the mouse to click on that area. If you prefer to use the keyboard, tab to the area and press Enter.










## MarkVision Menus

Select one of the items below for more information on the menus available from the MarkVision display.

-  File
-  Configure
-  Utilities
-  Network
-  Help

## MarkVision Buttons

Select one of the items below for more information about the buttons on the MarkVision display.

-  [Printer Control Panel](#)
-  [Printer Setup](#)
-  [Driver Setup](#)
-  [Detailed Status](#)
-  [Quick Setup](#)
-  [Windows Toolkit](#)
-  [Network Utility](#)

## List of Printers

Buttons for each of the printers available to MarkVision appear along the left side of the main MarkVision display. Each printer is identified by the port name (such as LPT1, COM1, and so on) for that printer.

Two-way arrows appear over a printer image for bidirectional printer. If an error occurs on a bidirectional printer, a NOT symbol appears for that printer. Non-bidirectional printers do not have the arrows. They have a generic printer image that is the same for all non-bidirectional printers.

A red diamond identifies the selected printer. If a bidirectional printer is selected, MarkVision offers extended status, configuration, and control functions. To select a different printer, choose the button for that printer.

The list of printers is determined by your Windows setup, MarkVision configuration settings, network log on status, and the authority assigned to your network user ID.

➡ If you are a LAN administrator, a "NET..." button may appear. The appearance of this button indicates that you have multiple printers directly connected to the LAN.

➡ If you are not a LAN administrator, or you have not selected the Show Network Print Queue List option, MarkVision displays a separate button for each printer it finds on the network.

The text on this button is broken into two lines. The top line is the name of the server on which the printer was found. The second line is the queue name for that printer. If the server name or queue name is too long to fit on the button, it is truncated and ends with ....

**See Also:**

[Show Printers](#)

[How MarkVision Finds Printers](#)

[Why Isn't MarkVision Finding the Printers on the Network?](#)



## **Non-Bidirectional Printer Notice**

A message confirming that you selected a non-bidirectional printer is displayed in this area. MarkVision status and some control functions are not active for non-bidirectional printers. The printer picture, MarkVision printer display, and internal optional markers are not available for non-bidirectional printers.

## Printer Picture and Details View

If you selected a bidirectional printer, a picture of the printer appears in this area. The picture shows options installed and connected to the printer.

Choose the Details button to replace the picture with text describing the printer model and any installed options or paper feeders. Installed printer options such as total printer RAM and flash memory are also listed. Additional details provided include memory available and paper size settings for each paper tray. Choose the Picture button to restore the printer picture. Select View Printer Image from the Configure menu to toggle the printer picture on and off.

If MarkVision detects an error, the picture changes to highlight the problem on the printer. The picture and any messages on the MarkVision printer display should help you identify the problem. If your computer is properly set up and enabled for sound, the sound file associated with the problem is played.

**Notes:** If an option is installed and removed, the printer must be turned off and back on before MarkVision will reflect the change.

If a non-bidirectional printer is selected, the printer picture, details, and error messages are not available.

**See Also:**

[Installed Printer Options](#)

[Operator Panel Display](#)

[View Printer Image](#)

## **Operator Panel Display**

If you select a bidirectional printer, you can view the current printer operator panel display from MarkVision. Printer messages and menus appear on this MarkVision printer display just as they do on the printer operator panel display. The display is accurate for the selected printer as long as the printer is on.

The buttons RESET and CONTINUE appear under the display. These buttons are active only when the printer operator panel displays a message requiring a RESET or CONTINUE action. If one of these printer messages appears, choose the RESET button to tell the printer to stop the current operation and restore settings to user defaults. The printer clears the paper path before resetting. Choose the CONTINUE button to continue the current printer operation.

The information on the MarkVision printer display changes as the actual printer operator panel changes. Refer to the User's Guide for more information.

## **XLe Option**

This marker appears if a Lexmark MarkNet XLe Option is installed.

## **INA Option**

This marker appears if an Internal Network Adapter (INA) option or an External Network Adapter (ENA) option is installed.




## **Printer RAM**

This marker appears for all bidirectional printers. It indicates the total RAM available in the printer. The total includes standard printer memory plus any installed memory options.

## Installed Printer Options

Each printer option installed in the selected bidirectional printer is represented by a unique "marker" in this area of the display. Since these options are installed under the printer covers, they do not appear in the Printer Picture.

To see a list of installed options, click the Details button in the Printer Picture. Markers appear for the following:

-  Printer RAM
-  Flash Memory Option
-  INA Option

**Note:** Options installed on non-bidirectional printers cannot be detected. The markers do not appear if a non-bidirectional printer is selected.

## **Flash Memory Option**

This marker appears if a Flash Memory option is installed. It indicates the size (1MB, 2MB, or 4MB) of the option installed.

You can use your Windows printer drivers and/or the [Windows Toolkit](#) to manage this useful printer option.



## Status Bar

The Status Bar along the bottom of the main MarkVision display shows the current status and address for the selected printer. The status field shows the current status of the selected bidirectional printer. This field is updated whenever the printer status changes.

If a non-bidirectional printer is selected, the status is Unknown. If the printer is connected to the network, the address field shows the queue name for the selected printer. If the printer is connected directly to an LPT or COM port on the computer, the address is Locally Attached.

## **Choosing a Quick Setup File Directory**

Select the drive and directory where the printer setup files are located and choose the OK button. Choose the Cancel button to exit this dialog without changing the drive and directory.

**Port Name**

The name by which MarkVision identifies a printer, such as LPT1.

## **Set as Default Printer Button**

Click this button to make the currently selected Windows printer driver the default Windows printer. This feature is only available when this screen is reached from Driver Setup.

## File Menu

Select one of the following items from the MarkVision File menu.

- ➡ Choose Next Printer with Error. Choose this item to automatically select the next printer in the MarkVision main list that is reporting an error condition. If no printer is reporting an error, the currently selected printer does not change.
- ➡ Print Text File. Choose this item to print a file on the selected printer. You can print text files or files associated with a Windows application (for example, a Microsoft Word for Windows document). For instructions, see [Print Text File](#).
- ➡ Exit. Choose Exit to exit MarkVision. All [Detailed Status windows](#) will be closed and all printer monitoring functions will end.

Instead of exiting, you may want to minimize MarkVision to an icon on your Windows desktop. Even when minimized, MarkVision continues to monitor the status of your [bidirectional printer](#) while saving screen space on your workstation.

## **Configure Menu**

Use the Configure menu to change MarkVision settings. Setting changes take effect immediately and are automatically saved when you exit MarkVision. They remain in effect the next time you start MarkVision.

Select one of the items below for more information:

[Automatic Printer Refresh](#)

[Detailed Status](#)

[Drag and Drop](#)

[Printer Status Notification](#)

[Refresh All Printers](#)

[Refresh Current Printer](#)

[Save Settings](#)

[Show Printers](#)

[Sound Setup](#)

[View Printer Image](#)

## Utilities Menu

Select one of the items below for more information on the functions available from the Utilities menu. Depending on the printers available to MarkVision and your system configuration, not all the items may be available.

[Intellifont-for-Windows](#)

[Printer Statistics](#)

[Diagnostics](#)

[Update Driver](#)

[Job Management](#)

## **Network Menu**

The Network menu lets you modify your network printer connections. Select Printer Connections to open the [Connect Network Printer dialog box](#).

This menu is grayed out if it is not available.



## Help Menu

The Help menu provides information and helpful hints for using MarkVision and MarkVision Help.

- ➡ Choose Contents to display the table of contents for MarkVision Help.
- ➡ Choose Search for Help on to open the Search dialog box for MarkVision Help. Use this dialog box to search for help relating to key words or topics.
- ➡ Choose How to Use Help for complete information about how to use MarkVision Help.
- ➡ Choose About to display information about the MarkVision program, including the copyright notice and version numbers.

## Printer Control Panel Menus

The Printer Control Panel dialog box has two menus:

- ➡ File. Click File to choose from the following options:
  - Open
  - Save
- ➡ Help.

## Printer Control Panel Button

Choose this button to open the MarkVision Printer Control Panel dialog box.

**Notes:** This button is available only if a bidirectional printer is selected.

If a non-bidirectional printer is selected, the Printer Control Panel button is replaced with the Printer Setup button.

If the selected printer is connected to a network, you must be logged on to the network as an administrator to use the MarkVision printer operator panel.

## Printer Control Panel Buttons

- ➡ Op Panel
- ➡ Paper
- ➡ Font
- ➡ Presentation
- ➡ Advanced
- ➡ Operation
- ➡ Short
- ➡ Long

## **Op Panel Button**

Click this button to view the printer [operator panel display](#).

## **Short Button**

Click the Short button to print a test page.

The Short button is ignored if the printer is busy.

## **Long Button**

Click the Long button to reset the printer.

## Printer Setup Button

Choose the Printer Setup button to open the Printer Setup dialog box. From there, you can change settings on the selected non-bidirectional printer.

**Notes:** This button is available only if a non-bidirectional printer is selected. Also, if the printer is connected to a network, you must be logged on to the network as an administrator to change the printer setup.

If a bidirectional printer is selected, the Printer Setup button is replaced with the Printer Control Panel button.



## **Driver Setup Button**

Choose the Driver Setup button to open the Driver Setup dialog box. There, you can modify the Windows printer driver settings for the selected printer. You can also set the default driver for the selected printer.

## Detailed Status Button

Click this button to open a detailed status window for the currently selected bidirectional printer. The status window includes the name, address, current status, and port or queue name for the printer. This information is continually updated. You can open a separate window for each printer or one window listing all selected printers.

Each window can be minimized (reduced to an icon) on the desktop. If the Detailed Status window is minimized when a printer error occurs, a NOT symbol appears over the icon for that printer's status window.

## Quick Setup Button

Choose the Quick Setup button to open the [Quick Setup dialog box](#), to change the settings on multiple printers at the same time. First, create printer setup files from the Printer Control Panel or Printer Setup dialog box; then, use Quick Setup to send the settings to a list of available printers. Quick Setup can be always done to a local printer; however, you can only do Quick Setup on a LAN printer if you are a LAN administrator.

**Note:** Quick Setup can be used for any printer physically connected to a parallel (LPT) port on your computer. It can also be used for printers connected to the network if you are logged on as an administrator.

### See Also:

[Printer Control Panel Dialog Box](#)

[Printer Setup Dialog Box](#)

## **Help Button**

Choose the Help button for additional information and helpful hints for this dialog box.

## **Exit Button**

Choose the Exit button to exit this dialog box.

## **Network Utility Button**

The Network Utility button gives you access to the Network Utility program that is included with the Integrated Network Adapter (INA) Option. The Network Utility lets you set the printer address and change, update, and configure INA settings.

This button is available if you are logged onto the network as an administrator. It is grayed out if it is not available.

## **Printer Setup and Test Commands**

From the Commands list box, select the command you want to send to the printer and choose the OK button.

Some commands, such as Set Default Lines per Page, require that you enter a numeric value. If you selected one of these commands, a dialog box is displayed where you can enter the appropriate value.

The commands listed are specific to the printer model selected from the Printer menu on the Printer Setup dialog box

## **Select Printer Driver for Printer Operation**

Select the Windows printer driver you want to use for the current printer operation. To select a printer driver, double-click on the printer driver in the list of Available Printer Drivers, or select the printer driver and choose the OK button.

During Driver Setup you can also set the default Windows printer.



## **Printer Setup User Entry**

The selected printer command includes a command variable that you enter. Enter a number from within the valid range specified and choose OK to send this command to the printer.

The selected command name is shown at the top of the Printer Setup User Entry dialog box.

## Printer Control Panel Dialog Box

Use the MarkVision Printer Control Panel dialog box to view, change, save, or restore settings for the selected bidirectional printer. This dialog box displays a full view of the printer operator panel. You can use the operator panel buttons just as you would the buttons on the actual printer. The display changes as the display on the actual printer changes.

You can save the new operator panel settings to a file. Choose Save from the Printer Control Panel dialog File menu. You can send the settings to another printer by choosing Open from the File menu. Or, you can use Quick Setup to send the settings to multiple printers.

### Notes:

The MarkVision printer operator panel is available only for bidirectional printers.

If the printer is attached to a network, the printer must be locally redirected to send commands to the printer.

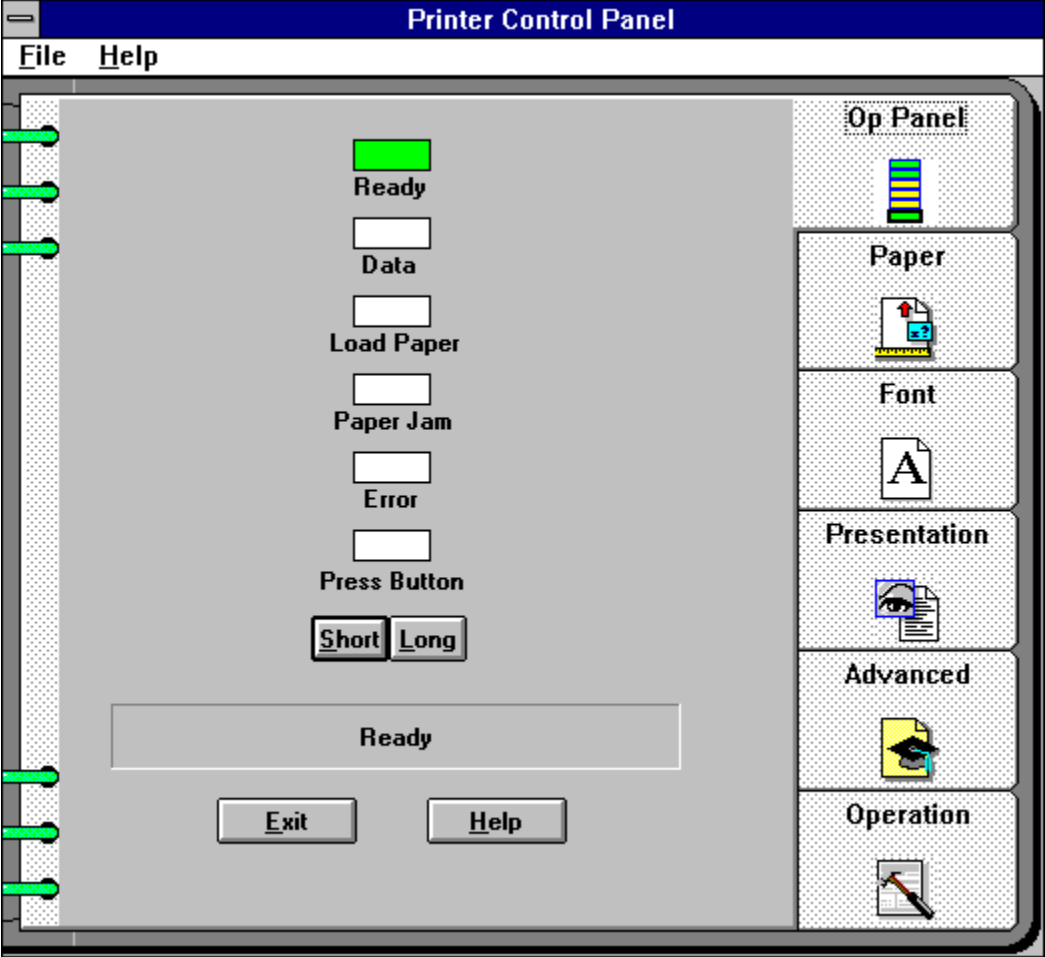
### See Also:

[Printer Control Panel Menus](#)

[Printer Control Panel Buttons](#)

[Printer Control Panel Lights](#)

For information on a specific area of the dialog box, use the mouse to click on that area in the picture below. If you prefer to use the keyboard, tab to the area and press Enter.



## Open

Choose Open from the File menu on the Printer Control Panel dialog box to send a printer setup file to the selected bidirectional printer. A dialog box is displayed where you can enter the name of the printer setup file.

1. Enter the file name you want.
2. Select the drive, directory, and file name in the box provided, or select the file name from the list.
3. Select the type of file you want to locate.
4. Choose the OK button to send the setup file to the printer.

To send the printer setup file to multiple printers, use Quick Setup.

**See Also:**

[How To Set Up Your Printer Quickly and Easily](#)

[Printer Setup Dialog](#)

## Save

Choose Save from the File menu on the Printer Control Panel or Printer Setup dialog box to save the printer setup to a file. A dialog box is displayed where you can enter the name of the printer setup file you're creating. Enter a file name and choose the OK button.

➡ If you select a bidirectional printer, the settings you saved in the printer setup file can be sent to the same or a similar printer later by using the Open function from the Printer Control Panel dialog box File menu. You can also send the printer setup file to multiple printers by using Quick Setup.

➡ If you select a non-bidirectional printer, the printer commands sent to the printer during Printer Setup are stored in the file.

**Note:** Changes saved in the Printer Setup are effective immediately and could affect jobs currently being printed. To avoid printer problems, do not send a printer setup file unless the printer is idle.

**See Also:**










[Printer Control Panel Dialog Box](#)

[Printer Setup Dialog Box](#)

## Operator Panel Dialog Box

If you select a bidirectional printer, you can view the current printer operator panel display from MarkVision. The display changes to reflect the current status of the selected printer as long as the printer is on.

For more information about the display, see the following topics:

-  Ready
-  Data
-  Load Paper
-  Paper Jam
-  Error
-  Press Button
-  Short
-  Long
-  Message Display Window






Click Exit to exit the dialog box.

## **Message Display Window**

The Message Display window displays the interpretation of the operator panel lights.

## Paper

Click the arrow next to the list box to display the selections.

-  Paper Source
-  Paper Size
-  Number of Copies
-  Paper Type
-  Tray Linking

For more information about the selections, see the User's Guide.

Click the Set button to activate the selection you made. Click the Defaults button to return your printer to the default settings.

The Set and Defaults buttons are functional only for a locally-attached printer or for a network printer that is redirected to an LPT port.



## Font

In the Font dialog box, you can choose the following:

- ➡ Font Source. Use Font Source to select a resident font. Only the font sources that are in the printer are displayed.
- ➡ Font Name. This selection displays the fonts available.
- ➡ Point Size. This selection is for typographic fonts. The values range from 1 to 1008, in increments of 1. The default point size is 12. Point size and pitch size are mutually exclusive.
- ➡ Pitch Size. This selection is for fixed or monospaced fonts. The values are from 1.0 to 100.0, in increments of 0.1. The default pitch size is 10.0. Pitch size and point size are mutually exclusive.
- ➡ Symbol Set. This selection displays the symbol sets that are resident in the printer. The default symbol set for the United States is Roman 8. For non-United States countries, the default is PC850.

Click the Set button to activate the selection you made. Click the Defaults button to return your printer to the default settings. The Set and Defaults buttons are functional only for a locally-attached printer or for a network printer that is redirected to an LPT port.

## Presentation

In the Presentation dialog box, you can choose the following:

- ➡ Resolution. The printer resolution is measured in dots per inch (dpi). This printer provides 300 dpi (the default) and 600 dpi. When 600 dpi is selected, Toner Saver and PQET are not enabled.
- ➡ Print Darkness. Print darkness values range from very light to very dark.
- ➡ Lines per Page. The Lines per Page setting affects the space between the lines so the selected number of lines prints between the margins. The default lines per page for the U.S. is 60; for non-U.S., it is 64.
- ➡ Top Margin Offset. A positive top margin offset moves text down the page and widens the top margin. A negative offset moves text up the page and narrows the top margin. The values range from -128 to +127. Each unit shifts the margin by 1/300-inch. The default top margin offset is 1/6-inch.
- ➡ Left Margin Offset. A positive offset moves the margin to the right, and a negative offset moves the margin to the left. The values range from -128 to +127. Each unit shifts the margin by 1/300-inch. The default left margin offset is 1/4-inch.
- ➡ Print Quality Enhancement Technology (PQET). Print Quality Enhancement Technology (PQET) improves the print quality of text by smoothing the jagged or uneven edges of the printed text.
- ➡ Orientation. Orientation refers to the placement of the printed text or graphic on a page. A page printed in portrait orientation is longer than it is wide; landscape orientation is wider than it is long.
- ➡ Toner Saver. Use Toner Saver to reduce the use of printer toner.

Click the Set button to activate the selection you made. Click the Defaults button to return your printer to the default settings. The Set and Defaults buttons are functional only for a locally-attached printer or for a network printer that is redirected to an LPT port.

- Notes:**
1. Selecting 600 dpi turns Toner Saver and PQET off.
  2. Toner Saver works only at 300 dpi.
  3. PQET works only at 300 dpi when Toner Saver is turned off.

## Advanced

In the Advanced dialog box, you can choose the following:

- ➡ Jam Recovery. Jam Recovery On reprints the page after the paper jam is cleared. If the Jam Recovery setting is Auto, the amount of memory determines whether the page is reprinted.
- ➡ Power Saver. Power Saver On reduces power consumption. The printer is shipped with Power Saver set to On and the timeout set to 15. You can select a Power Saver timeout value from 0 to 120 minutes (0 is off).
- ➡ Print Timeout. Print Timeout allows for automatic form feed at a selected timeout basis. The timeout range is from 0 to 255 seconds. The default Print Timeout is 0 (disabled).
- ➡ Page Protect. Page Protect On: The entire page is processed before it is printed. This setting may result in reduced throughput or increased memory requirements, but ensures that the printer produces the correct output for a page. This setting allocates enough memory to print a legal-size sheet of paper. The default is Page Protect Off.
- ➡ Auto Continue. Auto Continue On: The printer ignores some error conditions (memory full, complex page error, resolution reduction warning, data transmission error, or flash memory full) and continues printing. When any of these errors occurs, the printer stops, waits 30 seconds, and resumes processing. The default is Auto Continue On.
- ➡ Honor INIT. Honor INIT On: The printer honors hardware initialization requests from the host computer. The host computer requests initialization by activating the INIT signal in the parallel interface cable. The printer is reset when the host computer activates the INIT signal. The default is Honor INIT Off.
- ➡ CR After LF. CR After LF On: The printer performs an automatic carriage return (CR) after a line feed (LF) control command. The default is automatic CR After LF Off.
- ➡ LF After CR. LF After CR On: The printer performs an automatic line feed (LF) after a carriage return (CR) control command. The default is automatic LF After CR Off.
- ➡ US Defaults. Select On for U.S. settings; Off for non-U.S. settings. These are the selections:
  - Paper Size (U.S. letter; non-U.S. A4)
  - Envelope Size (U.S. Com 10; non-U.S. DL)
  - Symbol Set (U.S. Roman 8; non-U.S. PC850)
  - Lines per Page (U.S. 60; non-U.S. 64)

Click the Set button to activate the selection you made. Click the Defaults button to return your printer to the default settings. The Set and Defaults buttons are functional only for a locally-attached printer or for a network printer that is redirected to an LPT port.

## **Operation**

### **Page Count**

The Page Count total shows only the pages that have completed the print cycle when the screen is displayed. As you view the screen, Page Count does not increment. You must exit the screen and redisplay it. Any pages that have printed during that interval are added to the Page Count.

### **Print Test Page**

Click this button to print a test page. One test page prints, then the printer returns to Ready.

### **Print Flash Directory**

Click this button to print the contents of the directory. The directory prints, then the printer returns to Ready.

### **Format Flash**

Click this button to format the Flash option. Warning: The contents of the flash are lost when it is formatted.

### **Set All Factory Defaults**

Click this button to return the printer settings to the factory-defined default settings. Warning: all settings are reset to the factory default settings.

### **Enable PPDS**

You can use PPDS mode if your printer has a code level of 200A to 399Z (inclusive), or 600A to 799Z (inclusive). Otherwise, this selection is grayed out.

To determine the code level of your printer, print a test page. The code level is in the upper right corner. A description of PPDS and how to activate it is on the driver utility disk that was included with your printer. Follow the instructions on the Readme file to print the file.

## Printer Setup Dialog Box

Use Printer Setup to send setup commands to the selected non-bidirectional printer. Since MarkVision was unable to establish two-way communication with the printer, you must first specify which printer is attached.

To send commands to the printer or run tests on the printer:

1. Choose the Printer Setup button from the main MarkVision display.
2. Select a printer driver from the list of Available Printer Drivers.
3. Choose the OK button.
4. Select Printer from the Printer Setup menu bar.
5. From the drop-down menu, select the printer name.
6. Choose one of the command group buttons on the left (Paper, Font, Setup, or Test). The commands listed are specific to the printer model selected.
7. Select a command from the list box, and choose the OK button to send the command to the printer.
8. Select another command from the list box, or choose the Cancel button to return to the Printer Setup dialog box.
9. Choose Save from the File menu to save the settings to a file.

Choose the printer from the list. By default, the Lexmark Optra E LaserPrinter is selected each time the Printer Setup dialog box is opened.

**Note:** You can specify printer settings, but you cannot view them.

### Printer Setup User Entry

The selected printer command includes a command variable that needs to be filled. Enter a number from within the valid range specified and choose OK to send this command to the printer.

**Note:** The selected command name is shown at the top of the Printer Setup User Entry dialog box.

### Command Variable

In the Command Variable box, enter the number required to complete the selected command. The valid range for the value is shown.

## **Driver Setup Dialog Box**

Use Driver Setup to modify the Windows printer driver settings for the selected local or network-connected printer. You can also set the default printer used by Windows-based applications.

### **To change the settings for a printer driver:**

1. Double click on the printer driver in the list of Available Printer Drivers, or select the printer driver and choose the OK button. The Setup dialog box for the selected printer driver is displayed.
2. Change the settings in the dialog box and then choose the OK button.

### **To set or change the default printer:**

1. Select the printer from the Available Printer Drivers list.
2. Choose the Set As Default Printer button.

This function is not available for network printers that have not been connected to a local port.

**Note:** To install printer drivers or assign (connect) them to a port, choose Printers from the Windows Control Panel.

## Quick Setup Dialog Box

Choose Quick Setup to change the settings on multiple printers at the same time. Printer setup files created and saved using the Printer Control Panel or Printer Setup dialog box can be sent to the printers you select.

### To use Quick Setup:

1. Choose Quick Setup from the main MarkVision display.
2. Make sure the Directory field lists the directory where your printer setup files are stored. If it does not, choose the Browse button and select another directory.
3. Select the appropriate setup file from the Printer Setup Files list box.
4. Select one or more printers from the Printers list box. (Bidirectional printers are marked with an asterisk.)
5. Choose the OK button to send the printer setup file to the selected printers.
6. Repeat steps 1 - 5 for each group of printers to be set up with different setup files.
7. Choose the Exit button to exit the dialog box.

**Notes:** Quick Setup can be used for any printer physically connected to a parallel (LPT) or serial (COM) port on your computer. It can also be used for printers connected to the network if you are logged on as an administrator.

Printer Setup files saved using the Printer Control Panel dialog box can only be sent to bidirectional printers. Printer Setup files saved using the Printer Setup dialog box for non-bidirectional printers can be sent to either bidirectional or non-bidirectional printers.

### See Also:

[How to Set Up Your Printer Quickly and Easily](#)

## Detailed Status Window

The Detailed Status window displays the current status of bidirectional printers. The information is continually updated so you can monitor printer status. The status window includes the following information:

- ➡ Printer Name. The name of the printer as reported by the printer itself, usually the printer model.
- ➡ Port Name. The name by which MarkVision identifies a printer, such as LPT1:, COM2:, or PEABODY/SEDWARDS (as an example of a network queue).
- ➡ Network Adapter Address. The network adapter address of the printer internal network adapter or bidirectional external network adapter (such as the Lexmark MarkNet XLe) by which this printer is attached to the network. This field will be Locally attached for printers attached to the local parallel or serial port.
- ➡ Current Printer Status. This item is the same printer status that is displayed on the status bar of the main MarkVision display.
- ➡ Network Queue Status. The current network queue status is displayed in the Detailed Status window. For printers that are not attached to a network queue, this field will be N/A. For network printers, the status may be one of the following:

**Ready:** Print jobs sent to this queue are printed in the order received.

**Held:** Print jobs may be sent to this queue, but no jobs print until the queue is released.

**Not accepting jobs:** Print jobs may not be sent to this queue.

MarkVision updates the current queue status every 30 seconds (the default). To change the default, set the `queuostatpollinginterval` variable in LEXPANEL.INI to the appropriate number of seconds. For example, `QueueStatPollingInterval=10` causes MarkVision to update the current queue status every 10 seconds.

This window can be minimized (reduced to an icon) on the desktop. If the Detailed Status window is minimized when MarkVision detects an error, a NOT symbol appears over the icon for the corresponding status window.

One or more printers can be listed in this window, depending on the setting you chose for Detailed Status in the Configure menu.

**See Also:**

[How to Monitor Status for Multiple Bidirectional Printers](#)



## **Printer Connections**

Choose Printer Connections from the Network Menu to connect to, or disconnect from, a network printer. At the Network/Printer Connections dialog box, you can redirect a port to a network printer queue. You must be logged on to the network to select this function.

Note This function may not be supported on some network operating systems. If you get an error message when you choose Printer Connections, use the Printers option from the Windows Control Panel to modify your network connections.

See Also:

[Connect Network Printer Dialog Box](#)

[Why Do I Get A Network Printer Connections Error?](#)

## Connect Network Printer Dialog Box

The Connect Network Printer dialog lists all the network print queues that are available on your network. Select a printer from the list of shared printers, then select OK. The selected printer name is saved. When MarkVision restarts, this printer becomes the currently selected network printer.

MarkVision attempts to establish bidirectional communication with the printer and update the display with the information retrieved from that printer. Print Queues capable of bidirectional communication are marked with an \* at the end of the printer queue name.

When you exit the Printer Connections dialog, MarkVision needs to refresh the List of Printers because you may have changed some of your network printer assignments.

MarkVision lists printers based on their availability to Windows applications. If the new port assignment does not have a Windows driver associated with it, MarkVision cannot display it in the Printer List. If this happens, you can either:

- ➡ Select Yes to open the Windows Control Panel, where you can assign a printer driver to a newly assigned LPT port that was redirected to a network printer.
- ➡ Select No to start the MarkVision automatic Refresh All Printers function.

When you finish assigning printer drivers to the new LPT port names with the Windows Control Panel, you need to manually refresh the MarkVision List of Printers by invoking the Refresh All Printers function.

You can access the Refresh All Printers function from the Configure menu on the main MarkVision display.

**Notes:** The names that appear in the list are the printer queue names that are currently available based on the authority of who is logged onto the network.

Text for print queues that are currently reporting an error show up red in the list.

## Print Text File Dialog Box

To print a document from the Print Text File dialog box:

1. Enter the name of the file in the File Name box. If the file you want to print is not listed in the file name box:
  - a. Select the correct drive in the Drives box.
  - b. Select the correct directory in the Directories box.
  - c. Select the correct type of file from the List Files of Type box:
    - ➡ \*.TXT lists all files in the active directory that have an extension of TXT.
    - ➡ \*.PSF lists all files in the active directory that have an extension of PSF. These may be printer setup files.
    - ➡ \*.\* lists all files in the active directory.
  - d. Select the file name from the scrollable list.
2. Choose the OK button to print the file or choose CANCEL to exit without printing the file.

**Note:** The Windows Notepad application is used to format and print \*.TXT files.

**See Also:**

[How to Print Using Drag and Drop](#)

## **Automatic Printer Refresh**

Choose Automatic Printer Refresh from the Configure menu to choose whether MarkVision automatically updates printer information when it detects a configuration change at the selected printer.

**See Also:**

[Automatically Refresh Printer Information](#)

## **Automatically Refresh Printer Information**

Select this checkbox if you want MarkVision to update printer information automatically when it detects a printer configuration change at the selected printer. Printer configuration changes include: changes to the printer operator panel settings, either from the actual printer operator panel or from the MarkVision printer operator panel.

If you clear this checkbox, MarkVision only updates printer information when you select Refresh Current Printer or Refresh All Printers from the Configure menu.

**See Also:**

[Refresh All Printers](#)

[Refresh Current Printer](#)

## Detailed Status

Choose this item from the Configure menu to control how the Detailed Status is displayed for multiple printers. If you only have one printer, this function does not affect the Detailed Status display.

If you select:

- ➡ Single Window, the status for all printers being monitored is displayed in the same window.
- ➡ Multiple Window, a Detailed Status window opens for each printer you monitor.

**See Also:**

[Detailed Status Button](#)

[Detailed Status Window](#)

## Drag and Drop

Choose Drag and Drop from the Configure menu to control how the Drag and Drop function selects a printer. If you select:

- ➡ Use Default Printer, MarkVision prints files to the default printer. You are not prompted to select a printer.
- ➡ Prompt for Printer Setup, you are prompted to select a Windows printer driver for each file you want to print.

### See Also:






[How MarkVision Determines Available Printer Drivers](#)

[How to Print Using Drag And Drop](#)

[How to Set the Default Windows Printer](#)

## Printer Status Notification

Use this setting to control the way MarkVision responds when a printer error is detected:

-  MarkVision Always On Top
-  Focus on MarkVision When Status Changes
-  Display Flashing Error Icon When Error Occurs
-  Play Sounds When MarkVision Is Minimized
-  Printer Animation (not available for this printer)



## Refresh All Printers

Choose Refresh All Printers from the Configure menu to search your system and network for all available printers and identify bidirectional printer. The list of printers on the main MarkVision display is updated with the new information. If the currently selected printer is a bidirectional printer, MarkVision also updates the configuration data for the printer.

You should select Refresh All Printers when:

1. Printers are added to or removed from your system or network. This includes printers that were turned on or off.
2. You log on or off the network after MarkVision is started.
3. NPA Mode or Advanced Status settings are changed at the actual printer operator panel.

**Note:** To refresh information for the selected printer only, choose Refresh Current Printer from the Configure menu.

**See Also:**

[List of Printers](#)

[Refresh Current Printer](#)

## Refresh Current Printer

Choose Refresh Current Printer from the Configure menu to update all information for the selected printer. To refresh the information for all printers attached to your system and network, choose Refresh All Printers from the Configure menu.

You should select Refresh Current Printer when:

- ➡ The printer loses power or the printer cable is disconnected.
- ➡ NPA Mode or Advanced Status settings are changed either at the actual printer operator panel or from the MarkVision Control Panel dialog box.

**Note:** You can also press Ctrl + R from the MarkVision display to refresh the current printer.

**See Also:**

List of Printers

Refresh All Printers

## **Save Settings**

Choose this option to save the current MarkVision settings. These settings are automatically saved when you exit MarkVision and are used the next time you start MarkVision. However, you may want to choose Save Settings from the Configure menu to protect your current MarkVision settings from system failure or some other unexpected event.

## Show Printers

Choose Show Printers to specify the printers that are included in the printer list on the MarkVision display. In the Show Printers dialog, select the options that define the printers you want listed.

MarkVision functions are only available for printers included in the list on the main MarkVision display. The list is created when you start MarkVision, and is updated when you select [Refresh All Printers](#) from the Configure menu.

## Show Network Print Queue List

This option is only available if you are logged on to the network as an administrator.

Select this option to show all print queues on the network as a single button, labeled NET..., on the main MarkVision display. When you choose the NET... button, a list of queue names or addresses for the network print queues is displayed. You can select the network print queue you want from this list. If an error occurs on any of the network print queues, the [NOT Symbol](#) appears on the NET... button. If a [bidirectional printer](#) is selected, [two-way arrows](#) appears on the NET... button.

If this option is not selected, each print queue available on the network is listed separately on its own button. If an error occurs on any of the network print queues, the NOT Symbol appears on that printer button.

**Note:** Some of the options in the Show Printers dialog may be unavailable, depending on the printers that are available from your workstation, how your workstation is configured, and your network log on authority.

**See Also:**

[List of Printers](#)

[How MarkVision Finds Printers](#)

[Refresh All Printers](#)

## Sound Setup

Choose Sound Setup from the Configure menu to enable sounds in MarkVision and to specify the sound file to play for each printer event.

To set up sounds:

1. Choose Sound Setup from the Configure menu.
2. Select an event from the Events list box.
3. Select the Sound File you want to play when that event occurs. If you do not want a sound file played for the event, select <None>.
4. Repeat steps 2 and 3 for each event.
5. Select the Enable Sounds checkbox.
6. Choose the OK button to exit the dialog box and save your settings.

To disable all MarkVision sounds, clear the Enable Sounds checkbox.

**Notes:** Sounds are only played when an event occurs on the selected printer.

Windows system sounds can be disabled separately from MarkVision sounds.

MarkVision can only play sounds for the events listed in the Events list box.

The audio quality of the sound you hear is limited by the quality of the speaker in your computer. Some computers, particularly portables and laptops, use a beeper in place of a speaker. The audio messages cannot be heard on these computers.

**See Also:**

[How to Control Windows Sounds](#)

## View Printer Image

Select View Printer Image from the Configure menu to enable or disable the printer picture that appears on the main MarkVision display. This picture shows the physical configuration of the selected bidirectional printer.

➡ If a check mark appears next to View Printer Image in the Configure menu, the printer picture is enabled. The Picture button or the Details button also appears to let you switch between the printer picture and text describing the printer and any installed options. To disable the printer picture, select View Printer Image to remove the check mark.

➡ If a check mark does not appear next to View Printer Image, the printer picture is disabled. Only the text describing the printer appears. To enable the printer picture, select View Printer Image.

**See Also:**

[The MarkVision Display for Bidirectional Printers](#)

## **Update Driver**

Chose Update Driver from the Utilities menu to set the parameters associated with the updating of driver files from a server directory, or to start the update process.

### **Installation Path**

The Installation Path is the directory path where the update utility and associated files are located. If MarkVision was not installed for this feature, the path field will contain NO PATH SPECIFIED.

The path can be changed by typing in the edit box or using the Browse button to browse the drives and directories. If you edit the path using the keyboard, press Return or Enter when you have finished. When the path is changed, it is validated and any problems are reported.

### **Start Update Driver Install at Startup**

Select this option if you want the update driver utility to be automatically called when MarkVision is started.

**See Also:**

[Why Won't the Update Driver Utility Start?](#)

## **Printer Microcode Levels**

Choose Printer Microcode Levels from the Diagnostics menu to view the version of the microcode (or control program) installed in the selected printer and its options. This information may be needed by technical support if you encounter a problem.

This function is available only if a bidirectional printer is selected.



## Diagnostics

Diagnostics provides information to assist technical support if you encounter a problem. Do not use this function unless you are instructed to do so by technical support. You can choose the following options:

➡ Printer Microcode Levels. Choose Printer Microcode Levels from the Diagnostics menu to view the version of the microcode (or control program) installed in the selected printer and its options. This information may be needed by technical support if you encounter a problem.

**Note:** This function is only available if a bidirectional printer is selected.

➡ Enable Tracing. This function provides diagnostic information to assist technical support if you encounter a problem. Do not use this function unless you are instructed to do so by technical support.

## **Printer Statistics**

Select one of the items below for more information:

[Page Count](#)

[Reset Page Counter](#)

[Job Statistics](#)

## Page Count

Choose Page Count from the Printer Statistics menu to view the current page counts for the selected printer. The following information is provided:

- ➡ User Controlled Page Count: Number of pages printed since the printer was turned on or the count was reset. The count is reset to zero when you select [Reset Page Counter](#) from the Printer Statistics drop-down menu. This item is grayed out if it is not supported by this printer.
- ➡ Page Count Since Last POR: Number of pages printed since the printer was turned on. The count is reset to zero every time the printer is turned on.
- ➡ Page Count for Life of Printer: Total number of pages printed from this printer. The count cannot be changed by any user and is never reset. This value is saved when the printer is turned off. The count resumes when the printer is turned on.

**Note:** This information is only available if a [bidirectional printer](#) is selected.

## **Reset Page Counter**

Select Reset Page Counter from the Printer Statistics menu to reset to zero the User Controlled Page Count for the selected printer.

**Note:** This command is available only if a bidirectional printer is selected.

## Printer Control Panel Lights

- ➡ Ready
- ➡ Data
- ➡ Load Paper
- ➡ Paper Jam
- ➡ Error
- ➡ Press Button

## Ready Light

- ➡ Ready light on solid: The printer is ready to receive and to process data.
- ➡ Ready light on solid and Data light blinking: The printer is busy receiving or processing data.
- ➡ Ready light, Data light, and Press Button light on solid: The printer is waiting until a Print Timeout occurs, or until additional data is received.
- ➡ Ready light on solid, Data light and Error light blinking: The printer is flushing corrupted print data.
- ➡ Ready light and all other lights on solid: The printer is restoring all printer settings to factory default settings.
- ➡ Ready light and all other lights blinking: The printer needs service.

## **Data Light**

- ➡ Data light blinking and Ready light on solid: The printer is busy receiving or processing data.
- ➡ Data light on solid and Ready light on solid: The printer is waiting until a Print Timeout occurs, or until additional data is received.
- ➡ Data light and Error light blinking and Ready light on solid: The printer is flushing corrupted print data.
- ➡ Data light and all other lights on solid: The printer is restoring all printer setting to factory default settings.
- ➡ Data light and all other lights blinking: The printer needs service.

## **Load Paper Light**

- ➡ Load Paper light blinking and Press Button light on solid: Load media into the manual feed.
- ➡ Load Paper light on solid: The printer is out of paper, the paper did not feed properly, or the paper tray is installed incorrectly.
- ➡ Load Paper light and all other lights blinking: The printer needs service.



## **Paper Jam Light**

- ➡ Paper Jam light on solid: A paper jam has been detected. After the paper jam is cleared, open and close the top cover.
- ➡ Paper Jam light and all other lights blinking: The printer needs service.

## **Error Light**

- ➡ Error light on solid: The top cover of the printer is open.
- ➡ Error light and Press Button light on solid: The printer memory is full, or the page is too complex to print.
- ➡ Error light and all other lights blinking: The printer needs service.

## **Press Button Light**

The Press Button light prompts you to perform some action, such as resetting the printer or printing a test page. See the User's Guide for more information.

## How to Set Up Your Printer Quickly and Easily

You can use MarkVision to quickly change the settings for any or all of your bidirectional printers. You can also change default settings for non-bidirectional printers.

### To set up one bidirectional printer:

1. Choose the appropriate printer button on the main MarkVision display.
2. Choose the Printer Control Panel button.
3. Use the MarkVision Printer Control Panel dialog box to do either of the following:

Change the printer settings and save the setup to a file on your computer. (Choose Save from the Printer Control Panel File menu.)

Open a printer setup file you previously saved and send it to the printer. (Choose Open from the Printer Control Panel dialog box File menu. Select the printer setup file you want to use, and choose the OK button.)

### To set up another printer or a group of bidirectional printers:

1. Follow the steps above to set up one printer. Be sure to save the printer setup to a file.
2. Choose the Quick Setup button on the main MarkVision display.
3. Use the Quick Setup dialog box to select a printer setup file and send it to the printer or group of printers you select.

### To set up a non-bidirectional printer:

1. Choose the appropriate printer button on the main MarkVision display.
2. Choose the Printer Setup button.
3. If you are prompted, select the appropriate printer driver and choose the OK button.
4. Choose a command group button from the Printer Setup dialog box.
5. Select the setup command you want to send to the printer. Choose the OK button.

## How to Install MarkVision on a Network

When you use the MarkVision Windows Installation program, you have two methods to install MarkVision on the network. For either method, the network administrator first creates a MarkVision server directory on the network by choosing the Server option from the installation program.

After the server directory has been created, you can use the LINSTALL.EXE program to set up your system.

When the installation program is run from the server directory, you are in workstation mode. You can then install MarkVision to run from your workstation, or you can set up your workstation to run MarkVision from the network.

- ➡ For the first method, the administrator installs the files you need to run MarkVision from the network. This method lets you perform full installation of MarkVision on your workstation from the network.
- ➡ For the second method, the administrator installs only the files you need to perform remote installation. This method installs only the files needed to run MarkVision from the network.

Refer to the online help in the installation program for details on how to do the installation.

## How to Use MarkVision Without a Mouse

If you prefer to use the keyboard or do not have a mouse attached to your computer, you can access all MarkVision functions using the keyboard.

<b>To:</b>	<b>Press:</b>
Change the selected printer	<b>Alt + A</b> from the main MarkVision display, then use arrow keys to move to the appropriate printer
Refresh all printers	<b>Ctrl + R</b> from the main MarkVision display
Select a button or function	<b>Alt</b> + (the underlined character in the button or function name). For example, press <b>Alt + C</b> to access the contents for help from this help panel.
Move to a named field or list	<b>Alt</b> + (the underlined character in the field or list name)
Select an item in a list	The arrow keys to move through the list; then press the Spacebar to select an item.
Open a menu	<b>Alt</b> + (the underlined character in the menu name)
Select OK, Cancel, or Exit	<b>Tab</b> repeatedly until a box with a dotted outline appears around the key; press <b>Enter</b>
Exit the current dialog box	<b>Alt + F4</b>
Close MarkVision	<b>Alt + F4</b> from the main MarkVision display
Switch to another window	<b>Ctrl + Esc</b>
Minimize MarkVision	<b>Alt</b> + Spacebar; use arrow keys to move to Minimize; press <b>Enter</b>
Move MarkVision	<b>Alt</b> + Spacebar; use arrow keys to move to Maximize; press <b>Enter</b> ; use arrow keys to move the window; press <b>Enter</b>

## How to Change MarkVision Settings

You can change MarkVision settings to match your preferences and to optimize the

MarkVision operation in your environment. Most setting changes take effect immediately. Settings are automatically saved when you exit MarkVision.

To change MarkVision settings, choose one of the items listed below from the Configure menu:

- ➡ Automatic Printer Refresh: Controls whether MarkVision automatically updates printer information.
- ➡ Detailed Status: Controls how the detailed status appears for multiple printers.
- ➡ Drag and Drop: Controls printer setup for drag and drop printing.
- ➡ Show Printers: Defines which printers are listed on the main MarkVision display.
- ➡ Sound Setup: Enables and modifies MarkVision sounds.
- ➡ View Printer Image: Controls how the printer configuration is presented.
- ➡ Save Settings: Saves new settings immediately.

## **How to Control MarkVision Sounds**

MarkVision can play sounds to alert you to printer problems. If your computer does not have a sound driver, MarkVision does. When you install MarkVision, you can install the MarkVision sound driver and sound (.WAV) files.

You can enable or disable the MarkVision sound files. You can select a sound file to play for a particular printer problem. For specific instructions, see [Sound Setup](#).

The sound system for Windows is controlled separately from the MarkVision sound system.

The audio quality of the sound you hear is limited by the quality of the speaker in your computer. Some computers, particularly portable and laptop computers, use a beeper in place of a speaker. For these computers, the audio messages cannot be heard.

**See Also:**

[How to Control Windows Sounds](#)



## How to Control Windows Sounds

When Windows was installed on your computer, Windows computer sounds were enabled, but you may not have heard them because Windows does not usually install a sound driver for the speaker.

When MarkVision is installed on your computer, it also installs a sound driver for the speaker in your computer. This sound driver can also be used by any Windows program that provides support for sounds, including Windows.

You can enable or disable the Windows system sounds using the windows Control Panel. the following instructions show how to disable Windows system sounds.

1. Go to Windows Control Panel, which is usually found in the Main group in Program Manager.
2. Choose the Sound icon.
3. Clear the Enable System Sounds check box in the bottom left corner of the Sound dialog box. This action disables Windows system sounds without affecting MarkVision sounds.

**Note:** MarkVision sounds are controlled separately from Windows system sounds.

**See Also:**

[How to Control MarkVision Sounds](#)

## How to Print Using Drag and Drop

You can print a document by selecting the document and dragging it from Windows File Manager to MarkVision as follows:

1. With MarkVision running either as a window on your computer or reduced to an icon on your desktop, start the File Manager program. File Manager is usually found in the Main group of the Windows Program Manager.
2. Using the mouse, select the document file icon in File Manager and drag it into the MarkVision window or onto the MarkVision icon. Use the Drag and Drop function in the MarkVision Configure menu to control which printer is selected. You can choose to always print to the default Windows printer or be prompted to select the printer you want.

Use Drag and Drop to print text files or files associated with a Windows-based application. If the selected file is associated with a Windows application (for example, a Microsoft Word for Windows document), the application will automatically be started to format the document for printing. Once formatting has completed, the application is closed and the document is printed. If the selected file is not associated with an application, the Windows Notepad application is used to format and print the file.

**Note:** The Windows Notepad application is NOT used to format and print \*.TXT files. These files are sent directly to the printer.

**See Also:**

[Drag and Drop](#)

[How MarkVision Determines Available Printer Drivers](#)

[Print Text File](#)

[How to Set The Default Windows Printer](#)

## **How to Set the Default Windows Printer**

You can use MarkVision instead of the Windows Control Panel, to set the default printer that Windows applications should use. To set the default printer:

1. Select the default printer from the printer buttons on the left of the main MarkVision display.
2. Choose the Driver Setup button.
3. On the Driver Setup dialog box, select the driver you want as the default from the Available Printer Drivers list.
4. Choose the Set as Default Printer button.
5. Choose the OK button to display the Setup dialog box for the selected printer driver.
6. Verify the settings on the Setup dialog box. Make any necessary changes, then choose the OK button.

## **How to Access Intellifont for Windows**

MarkVision provides easy access to the Intellifont-for-Windows program. If you have Intellifont-for-Windows installed on your computer, choose Intellifont from the Utilities menu to start the Intellifont-for-Windows program.

**Note:** You can select the Intellifont command only if Intellifont-for-Windows has been installed on your computer.

## How to Determine NPA Mode and Advanced Status

The factory default settings for NPA Mode and Advanced Status allow bidirectional communication. However, if for some reason, these settings are turned off, bidirectional communication no longer works.

To check these settings, print a test page. The settings are in the right column.

- ➡ NPA should be Auto.
- ➡ Advanced Status should be On.

If not, refer to the Technical Reference for information about changing the settings.

## How to Monitor Status for Multiple Bidirectional Printers

1. Choose a bidirectional printer button from the list on the MarkVision display.
2. Choose the Detailed Status button. Detailed status information appears for the selected printer.
3. Repeat steps 1 and 2 until Detailed Status has been selected for all printers you want to monitor.

**Note:** Detailed status cannot be monitored for a non-bidirectional printer. This button is not active if a non-bidirectional printer is selected.

**See Also:**

Detailed Status

## **Problems**

- ➡ Why Is Bidirectional Communication Not Active?
- ➡ Why Are Some MarkVision Functions Not Active?
- ➡ Why Do I Get a Network Printer Connections Error?
- ➡ Why Are Printer Errors NOT Indicated in MarkVision?
- ➡ Why Isn't MarkVision Finding the Printers on the Network?
- ➡ Why Is There Insufficient Memory to Run MarkVision?
- ➡ Why Won't the Update Driver Utility Start?

## **Error Messages**

- ➡ Bidirectional Query
- ➡ Complex Page
- ➡ Data Transmission
- ➡ Defective Flash
- ➡ Flash Full
- ➡ Intervention Required
- ➡ Load Paper
- ➡ Memory Full
- ➡ Paper Jam
- ➡ Resolution Reduction Warning
- ➡ Top Cover Open
- ➡ Unformatted Flash



## Why Are Some MarkVision Functions Not Active?

Some MarkVision functions are not active if they are not useful in the current situation. Factors that determine whether a function is active include:

- ➡ The currently selected printer (bidirectional or non-bidirectional printer)?
- ➡ Network operating system installed
- ➡ Network log on status
- ➡ Network log on authority (administrator or user?)
- ➡ Whether the necessary program is installed (for example, Intellifont or the Network Utility)

For information on when a specific MarkVision function is not active, refer to the help for that function.

## **Why Do I Get a Network Printer Connections Error?**

MarkVision supports monitoring and setting up redirected printers using Novell NetWare, IBM DOS LAN Requester, MS LAN Requester, or Windows for Workgroups Requester. If you are running other network software the connections dialog may not be reachable. Also, you may have a Windows network driver that does not support this function. Please see your network software documentation for information on your network drivers for Windows.

This function can also be reached in the Print Manager under the sub-menu Printers/Connect Network Printer and in the Control Panel/Printers by clicking Connect, then Network.

**See Also:**

[MarkVision Overview](#)

## **Why Isn't MarkVision Finding the Printers on the Network?**

MarkVision will only find remote printers if they are connected directly to a Novell NetWare, IBM DOS LAN Requester, MS LAN Requester, or Windows for Workgroups Requester local area network by way of a MarkNet or MarkNet XL internal network adapter or a MarkNet XLe external network adapter.

**See Also:**

[Show Printers](#)

[How MarkVision Finds Printers](#)

[Why Is Bidirectional Communication Not Active?](#)

## Why Is Bidirectional Communication Not Active?

Check the following if MarkVision cannot establish bidirectional communication with the printer associated with the port listed in the Printer Buttons list.

- ➡ The printer is connected to a COM port. MarkVision does not support bidirectional communication with a serially connected printer.
  - ➡ A Bidirectional Query error occurred after bidirectional communication was established.
  - ➡ NPA Mode or Advanced Status is set to Off at the printer. See How to Set NPA Mode and Advanced Status.
  - ➡ The printer is NOT a Lexmark Optra E LaserPrinter or IBM LaserPrinter 4039 plus
  - ➡ The parallel cable does not comply with the IEEE 1284 standard for bidirectional communication. See your User's Guide for the parallel cable recommended for your printer.
  - ➡ The printer is powered off.
  - ➡ Printing through Windows Print Manager has been enabled for one of two reasons:
    - Windows Print Drivers (Fast Printing Direct to Port has been disabled) or
    - Use of the Windows Toolkit
- MarkVision is unable to communicate bidirectionally with the printer when printing occurs through Windows Print Manager. When the Print Manager job has been completely processed by Print Manager, MarkVision automatically attempts to re-establish bidirectional communication.
- ➡ More than one printer is logically attached to the same network print queue.
  - ➡ Other devices, such as a CD-ROM drive, are sharing the parallel port with the printer.

**See Also:**

[How MarkVision Finds Printers](#)

## **Why Are Printer Errors Not Indicated in MarkVision?**

For MarkVision to receive and indicate error conditions for printers attached locally to your PC, the proper interrupt must be selected for your PC's parallel printer ports. **IRQ7 IS THE ONLY INTERRUPT SETTING THAT MARKVISION SUPPORTS.** IRQ7 may be used as the setting for all parallel printer ports on your PC.

Typically add-in parallel printer port cards for ISA systems require a jumper setting on the card to select the interrupt. Add-in parallel printer port cards for MicroChannel systems typically have software that allow interrupt selection. See your system or parallel printer port card documentation for details.

## **Why Is There Insufficient Memory to Run MarkVision?**

In some situations (such as running under Windows For Workgroups), MarkVision may have insufficient memory to operate properly. To alleviate this problem, free as much conventional memory as possible by loading DOS and all possible TSRs in high memory, running DOS HIMEM, and using the LOADHIGH command, or by using some other memory management program. Consult you DOS documentation for details on using HIMEM.

## Why Won't the Update Drivers Utility Start?

### Path Reference is Invalid

The path for the utility and its needed files are stored in the WIN.INI file. This path is used to load and execute the update utility. The path could be invalid for three reasons:

- ➡ When MarkVision was installed, it was not set up to work with a network file server. In this case, WIN.INI does not contain the entry that determines the path. To correct this problem, you can use the Update Drivers dialog under the Utilities menu to put in a path for the utility.
- ➡ The path does not exist. The path cannot be found as entered. Verify spelling.
- ➡ The path is correct, but it is on a network drive and you are not on the network. In some cases, the same path can be found under different drive letters depending on the configuration for each user. To correct this problem, make sure you are logged on to the correct network, or contact your system administrator to get access to the proper network drive.

### Path is Valid But Does Not Contain DLL

The required DLL is not in the specified path. A DLL file is required for the update utility to execute. Contact the person in charge of the server directory to see if it has been moved to another directory, or check to see if the current path is the correct update/install directory.

## **Bidirectional Query**

If you get a Bidirectional Query error, bidirectional communication with your printer was interrupted and lost. In most cases, the text in the error display gives you the most probable cause for the disruption and instructions for re-establishing communication.

Bidirectional Query errors may also occur if MarkVision requests printer information and the printer is busy printing a job from a DOS session in Windows or a job created with a non-Lexmark printer driver. For either of these possible causes, MarkVision will automatically re-establish bidirectional communication after the print job has been completely transmitted to the printer.

**Note:** The most convenient method to re-establish bidirectional communication is to select OK to clear the error message; then press Ctrl+R (Refresh Current Printer).

For locally attached printers, if the parallel cable has become disconnected either at the PC or printer, MarkVision may respond by stating that the printer has been turned off. Similarly, printer cables that don't comply with the IEEE 1284 standard may cause similar messages.

You may also get this message if NPA Mode or Advanced Status was turned off at the printer operator panel. NPA Mode needs to be set to either On or Auto. Advanced Status needs to be set to On.

**See Also:**

[How to Determine NPA Mode and Advanced Status](#)



## **Complex Page**

The amount of text, graphics, and print information on the page requires more memory to print than the amount of memory installed in your printer. You may need more memory to print this level of complexity.

This error is identified on the operator panel lights. Initially, the Error light and the Press Button light are on solid.

To determine if you have a complex page error, press Press Button on the physical printer operator panel and release the button within 1/2-second. The following lights come on solid: Ready, Error, and Press Button.

To recover from this error, switch to a different print mode.

## Data Transmission

This error can occur in both Quick Print + and Print Accelerator modes. The host PC cannot send data to the printer fast enough. This error may occur also if you:

- ➡ Try to maximize MarkVision or
- ➡ Perform a printer refresh from MarkVision as a job is printing in either Quick Print + or Print Accelerator mode

This error is identified on the operator panel lights. Initially, the Error light and the Press Button light are on solid.

To determine if you have a data transmission error, press Press Button on the physical printer operator panel and release the button within 1/2-second. The following lights come on solid: Data, Error, and Press Button.

To recover from this error, do either of the following actions:

- ➡ Press and hold down the Press Button on the printer operator panel for less than 3 seconds (short button press) to continue printing. The rest of the job is printed.
- ➡ Press and hold down the Press Button on the printer operator panel for more than 3 seconds (long button press) to reset the printer. Resend the print job.

To avoid the error:

- ➡ Wait until the print jobs are complete before either maximizing MarkVision or performing a printer refresh from MarkVision
- ➡ Select either Raster or GL/2 print mode
- ➡ Change the resolution to 300 dpi

## **Defective Flash**

Remove the defective flash memory card and try another.

## **Flash Full**

There is not enough free space in the flash memory card to hold the data that was sent. You can select either RESET or CONTINUE.

If you continue, whatever has not yet been stored in flash memory is ignored.

If Auto Continue is On when the printer detects this error, it waits 30 seconds for the condition to be corrected and then continues.

## **Intervention Required**

The printer requires your attention. Refer to the status message on the operator panel on the main MarkVision display for more information about the error.

## **Load Paper**

The paper tray indicated is empty or has been removed. Fill or reinsert the paper tray to continue.

## Memory Full

The printer started processing data, but the available memory is full. You may need more memory to print this level of complexity.

This error is identified on the operator panel lights. Initially, the Error light and the Press Button light are on solid.

To determine if you have a memory full error, press Press Button on the physical printer operator panel and release the button within 1/2-second. The following lights come on solid: Ready, Data, Error, and Press Button.

To recover from this error, do either of these actions:

- ➡ Change the printing mode to Quick Print +
- ➡ Reduce the complexity of the job or the resolution.

## **Paper Jam**

Paper is caught in the printer.

1. Open the top cover of the printer to look for the paper.
2. Remove the tray from the printer and visually inspect the inside of the printer for paper.
3. Remove any paper caught inside the printer.
4. Close the top cover.

Be sure to open and close the top cover after a paper jam is cleared from the printer,



## **Resolution Reduction Warning**

This error occurs when the printer runs out of memory during the formatting of a page.

This error is identified on the operator panel lights. Initially, the Error light and the Press Button light are on solid.

To determine if you have a resolution reduction warning error, press Press Button on the physical printer operator panel and release the button within 1/2-second. The following lights come on solid: Error and Press Button; and these buttons are blinking: Ready and Data.

To recover from this error, reduce the resolution to 300 dpi.

## **Top Cover Open**

The top cover on your printer has been opened. Push down on the top of the cover to latch it closed. This clears the error condition.

This is an error condition that cannot be cleared remotely. You must physically close the top cover of the printer in order to continue.

## **Unformatted Flash**

The printer detected an unformatted flash memory card.

If you select CONTINUE, the flash memory will be ignored and normal operation will continue.

If the error condition remains, the flash memory card is defective and must be replaced.

If Auto Continue is On when the printer detects this error, it waits 30 seconds for the condition to be corrected and then continues.

To use the Flash Option:

1. Format the flash memory card.
2. Resend the data.

## **Windows Toolkit**

Use the Windows Toolkit to download fonts, overlays and demos to your local or network connected printer and to manage the files stored on resources in your printer.

This function is not available for network printers that have not been connected to a local port.

Click Exit to exit the dialog. Click Close to close the dialog and continue.

**See also:**

[Download Fonts](#)

[Download Demos](#)

[Download Overlays](#)

[Resource Management](#)

## Resource Management

Use Resource Management to manage the files stored on the flash on your printer.

The Selected Printer drop-down box displays a list of available printers that support resource management. Select the printer you want. This box is grayed out if there are no available printers.

The directory list provides the following information:

- ➡ List of files stored in resources in your printer.
- ➡ Resource where the files are stored (flash).
- ➡ Size of the file (in bytes).
- ➡ ID of the file if the file is stored with an ID. Typically, only PCL overlays and PCL fonts are stored with an ID.
- ➡ Description of the file.

The Resource Management dialog box also provides the following information:

- ➡ The total number of files stored in resources in your printer.
- ➡ The amount of space in bytes available on flash (if flash is installed in your printer).

Choose the Refresh Directory button to refresh the directory with the files currently stored on resources in your printer.

Click Exit to exit the dialog. Click Close to close the dialog and continue.

**See also:**

Delete

Format

Refresh Directory

## Delete

**WARNING:** The delete function will **PERMANENTLY** erase the selected file. You cannot recover the file after the delete function is complete. You will be asked to confirm the deletion of the selected file.

Choose the Delete button to delete the selected file in the directory.

## Format

**WARNING:** The format function will **PERMANENTLY** erase **ALL** the files currently stored on the selected resource. You cannot recover these files once the format function is complete. You will be asked to confirm the format function.

Use the Format function to format the selected resource.

The Available Resources area displays all the resources currently available on your printer. Those resources that are not available will be grayed out and are unavailable for the format function.

Choose a resource and choose OK to proceed with the formatting of the selected available resources.

Click Cancel to cancel the selection and exit the dialog.

## **Download Fonts**

Choose the Download Fonts button to download fonts to your printer. You will be asked to choose a printer driver to use with the download fonts function.

For more information, choose the Download Fonts button and choose the Help button when the Download Fonts dialog box appears.



## **Download Demos**

Choose the Download Demos button to download demo files to your printer. You will be asked to choose a printer driver to use with the download demos function.

For more information, choose the Download Demos button and choose the Help button when the Download Demos dialog box appears.

This selection is grayed out if it is not available.

## **Refresh Directory**

Click Refresh Directory to update the information in the Directory list box.

## **Download Overlays**

Choose the Download Overlays button to download overlays to your printer. You will be asked to choose a printer driver to use with the download overlays function.

For more information, choose the Download Overlays button and choose the Help button when the Download Fonts dialog box is shown.

This selection is grayed out if it is not available.

## **Intellifont-for-Windows**

Intellifont-for-Windows is a Windows application that lets you use high-quality screen fonts with your PCL 5 scalable printer fonts, creating a WSIWYG screen display.

Choose Intellifont from the MarkVision Utilities menu to invoke the Intellifont dialog box, which lets you:

- ➡ Turn Intellifont-for-Windows on or off in your Windows application.
- ➡ Adjust the size of the screen font cache that Intellifont uses in your Windows applications.

**See Also:**

[On or Off Selection](#)

[Screen Font Cache](#)

[Compatible Fonts and Typefaces](#)

## **On or Off Selection**

To turn the screen driver for Intellifont-for-Windows on or off, click on your selection in the Status box. You must exit and restart Windows for the status change to take effect.

When the screen driver is on, high-quality screen fonts are displayed for Intellifont scalable fonts. When the screen driver is off, Windows chooses the best screen font representative.

**Note:** Access to the Lexmark font installer is always available. Only the screen driver is affected by the status selection.

## Screen Font Cache

The Cache option helps Intellifont-for-Windows (IFW) render your screen fonts faster.

A part of your computer's Random Access Memory (RAM) is set aside as a screen font cache. When screen fonts are saved in the cache, IFW does not have to recreate each character when it is used again.

The cache option default setting is 96KB. You can change this setting to suit your needs. For example, if you are using RAM resident programs, you can decrease the size of your screen font cache to accommodate them. On the other hand, if you are using many different fonts in your document, you can increase the cache size to allow IFW to render your screen fonts more efficiently.

To change the cache size, click on the arrows in the Cache box to see the available sizes. The sizes are listed in 32KB increments from 64KB to 256KB. Select the size you want to use.

**Note:** You must exit and restart Windows for your changes to take effect.

## Compatible Fonts and Typefaces

Fonts installed through the Lexmark font installer must be in one of the following forms:

- ➡ Bitmapped soft fonts in PCL format  
These fonts have various file extensions. For example, soft fonts provided by the HP Type Director use .SFP and .SFL files. HP's older soft font products, such as the AC, AE, AG, DA, DC products, use file extensions .USP, .USL, .R8P, .R8L, etc.
- ➡ Fonts installed through the AutoFont Support Utility using GLUE.TXT files

## **Definitions**

Bidirectional and Non-Bidirectional Printer

Default Printer

Directory

Drive

NOT Symbol

Printer Images

Two-Way Arrows



## **Bidirectional and Non-Bidirectional Printer**

If MarkVision is **able** to establish two-way communication with a printer, that printer is considered a bidirectional printer. A miniature printer image appears on the right side of the printer button. Two-way arrows also appear on the printer button for each bidirectional printer listed on the main MarkVision display.

If MarkVision is **unable** to establish two-way communication with a printer, that printer is considered to be a non-bidirectional printer. The two-way arrows do not appear on the printer button for that printer. These buttons also contain a generic printer image.

**See Also:**

[Why Is Bidirectional Communication Not Active?](#)

## **Default Printer**

The printer to which your documents are sent automatically when you print from an application.

You can have only one default printer, usually the printer you use most often.

## **Directory**

Directories are subdivisions of a diskette or hard drive that help you organize your documents. For example, you could create a directory called MEMOS where you could store all of your memo files so you could easily find them.

## **Drive**

A drive is the mechanism in your computer that turns a hard disk as it retrieves and stores information. Many computers have one hard disk drive labeled C and two drives labeled A and B that read removable floppy disks. If you are logged onto a network, you may also have access to hard disk drives located in other computers attached to the network.

## NOT Symbol



This symbol is used in MarkVision to indicate that an error occurred on a bidirectional printer.

## Printer Images



For bidirectional printers, a miniature image of the printer is displayed on the printer button. In this way the printer model associated with that button can be determined even if that printer is not currently selected.



If a printer is non-bidirectional, MarkVision cannot determine the model type for that printer. This symbol represents a generic printer type, and is displayed on all printer buttons associated with a non-bidirectional printer.

## Two-Way Arrows



This symbol appears on each bidirectional printer button on the main MarkVision display. If the arrows do not appear on a printer button, MarkVision was unable to establish two-way communication with that printer.

## **Job Management Dialog**

The Job Management function allows you to change the queue status for your internal printer queue and your network printer queue. If a selection is not available, it is grayed out.

**See Also:**

[Internal Printer Queue](#)

[Network Printer Queue](#)

[Change Network Queue Status](#)



## Internal Printer Queue

The list is updated as the status of the jobs changes. The job at the top of the list is printed first.

- ➡ Job ID - Numerical identifier assigned by the printer.
- ➡ Status - Print job status, one of the following:
  - Processing (being processed by printer)
  - Queued (processed by printer, waiting to be printed)
  - Printing (being printed)
  - Delete (received by printer, but not processed; will be deleted when processing begins)

If you delete a job that is not queued, the job is deleted immediately and it cannot be undeleted. If you delete a job in queued status, the job status is shown as Delete. It is removed from the list when the printer begins processing it. You may select and undelete a job that is shown in Delete status.

- Unknown (jobs beyond the 25th job in the list; status changes to one of the above as processing begins)

- ➡ Host - computer from which the job was sent as determined by the network adapter. This field is blank for jobs sent from DOS applications.

- ➡ User - who sent the job, as determined by the network adapter. This field is blank for jobs sent from DOS applications.

- ➡ Job Name - determined by the printer driver or the network adapter. This field is blank for jobs sent from DOS applications.

A Job Name in blue text (or gray for a monochrome display) indicates a job that will produce additional print jobs when it starts processing. If you delete this job when it is in Waiting status, the jobs that it would have produced are also deleted. If you delete this job when it is in Processing status without deleting any of the additional jobs it produced, all jobs will print.

### Buttons

- ➡ Delete button deletes all selected jobs in the Internal Printer Queue.

A job in Waiting status is deleted, but it can later be selected and undeleted. All others are deleted permanently.

- ➡ Undelete button cancels deletion of a job in the Internal Printer Queue, so it will print in turn.

## Network Printer Queue

If Refresh Now and Change Refresh Rate buttons are grayed out, this list is updated as the jobs in the network queue change. Otherwise, the list is updated at the selected polling interval. The job at the top of the list is printed first.

- ➡ Job ID - Numerical identifier assigned by the network.
- ➡ Status - Print job status, one of the following:
  - Waiting (to be sent to the printer)
  - Held (in queue until it is released)
- ➡ Size - The size of the job in bytes
- ➡ User - Who sent the job, as determined by the network
- ➡ Job Name - Determined by the network

### Buttons

➡ Click the Change Status button to open the Change Network Queue Status dialog box. Click the radio buttons to make your selection.

**Note:** Print Jobs and Servers apply to Novell Netware only. They are grayed out for all other networks.

➡ Click the Hold button to hold selected jobs in the Network Printer Queue. The status changes to Held.

➡ Click the Release button to release all selected jobs in Network Printer Queue. The status changes to Waiting.

➡ Click the Refresh Now button to update the Network Printer Queue with the current status.

➡ Click the Change Refresh Rate button to change the rate at which the Network Printer Queue list is refreshed automatically. Click this button to get the Change Refresh Rate dialog. Make your selection from this menu and click OK to activate, or Cancel to exit without making any change.

➡ Click the Delete button to delete all selected jobs in the Network Printer Queue.

➡ Click the Print Next button to move all selected jobs in the Network Printer Queue to the top of the list.

**See Also:**

[Change Network Queue Status](#)

## **Change Network Queue Status**

Click the Change Status button to open the Change Network Queue Status dialog box. Click the radio buttons to make your selection. If a selection is not available, it is grayed out.

### **Printing**

Servers can service entries in the queue.

### **Print Jobs (Novell Netware only)**

Users can place entries in the queue.

### **Servers (Novell Netware only)**

New servers can attach to the queue.

## Job Statistics

The job statistics utility allows MarkVision to record certain printer activities in a comma-delimited text file. A database program can read this file in order to compute various statistics about the printers monitored by MarkVision.

By default, job statistics tracking is turned off for all printers each time MarkVision is started. Tracking may be turned on or off for each printer on an individual basis by selecting the appropriate printer on the MarkVision main panel, then choosing Utilities | Printer Statistics | Job Statistics from the main menu. This opens the Job Statistics dialog, from which Tracking On or Off may be selected. All fields in the Job Statistics dialog are for the currently selected printer on the MarkVision main panel.

MarkVision records printer information in the [job statistics data file](#) as a series of records, one record per line. Each record consists of 70 data fields, separated by commas.

Click Exit to close the Job Statistics dialog and save the current settings. If tracking is on when the dialog is closed, statistics continue to be recorded in the job statistics data file.

**See Also:**

[Job Statistics Data File](#)

## Job Statistics Data File

MarkVision records printer job statistics in this file, if a job tracking feature is available on your printer. If this feature is not available, no statistics will be displayed. The location and name of this file may be changed by choosing File | Change File from the Job Statistics dialog menu.

Each line in the Job Statistics data file is one record. Each record consists of 70 data fields, separated by commas. Each record represents either a completed print job or an error condition reported by a printer. If a record represents an error condition, it appears in the error condition data field (field 49). If the error condition field is empty, the record represents a completed print job. The meanings of all fields are listed below.

1. Port name (variable character)
2. Day of week (fixed character, length=3)
3. Month (fixed character, length=3)
4. Day of month (integer)
5. Time (fixed character, length=8)
6. Year (integer)
7. Number of input sources (integer)
8. Job logical unit number (integer)
9. Job Id (integer)
10. Job processing time (integer)
11. Manual sheet feeder total sheets (integer)
12. Manual sheet feeder total impressions (integer)
13. Not supported (currently = 0)
14. Manual envelope feeder total sheets (integer)
15. Manual envelope feeder total impressions (integer)
16. Not supported (currently = 0)
17. Tray 1 total sheets (integer)
18. Tray 1 total impressions (integer)
19. Not supported (currently = 0)
20. Tray 2 total sheets (integer)
21. Tray 2 total impressions (integer)
22. Not supported (currently = 0)
23. Automatic envelope feeder total sheets (integer)
24. Automatic envelope feeder total impressions (integer)
25. Not supported (currently = 0)

- 26 Tray 3 total sheets (integer)
- 27 Tray 3 total impressions (integer)
- 28 Not supported (currently = 0)
- 29 Feeder 2 total sheets (integer)
- 30 Feeder 2 total impressions (integer)
- 31 - 40 Not supported (currently = 0)
- 41. Port ID (integer)
- 42. Host name (variable character)
- 43. User name (variable character)
- 44. Source protocol (variable character)
- 45. Job name (variable character)
- 46. Queue name (variable character)
- 47. Other job data (variable character)
- 48. Printer serial number (variable character)
- 49. Error condition (variable character)
- 50. Printer Driver Job Name (variable character)
- 51 - 54 Not Supported (currently = 0)
- 55 Tray 1 total Contone impressions (integer). Always 0 for a non-color printer.
- 56 Tray 1 total 4-plane color impressions (integer). Always 0 for a non-color printer.
- 57 Tray 2 total Contone impressions (integer). Always 0 for a non-color printer.
- 58. Tray 2 total 4-plane color impressions (integer). Always 0 for a non-color printer.
- 59 Feeder 1 total Contone impressions (integer). Always 0 for a non-color printer.
- 60 Feeder 1 total 4-plane color impressions (integer). Always 0 for a non-color printer.
- 61 - 70 Not Supported (currently = 0)

**Port Name**

The name by which MarkVision identifies a printer, such as LPT1, COM1, or PEABODY/SEDWARDS (as an example of a network port).

## **Number of Input Sources**

Total number of paper input sources available on your printer. These sources include the following:

- Manual sheet feeder
- Manual envelope feeder
- Tray 1
- Tray 2
- (Automatic) envelope feeder
- Tray 3
- Feeder 2

A Lexmark 4049 printer always reports 3, 4, or 5 input sources because the 2 manual feeders and tray 1 are always present.



## **Job Logical Unit Number**

The logical unit within the printer that processed the job. This may be used to identify the type of job printed, and will be one of the following (if the function is available on your printer):

- 1 = PCL
- 2 = PostScript
- 3 = Print Accelerator
- 4 = PjL
- 255 = Unknown

**Job ID**

The job ID, as reported by the printer.

## **Job Processing Time**

The total time used to print the job, in seconds.

## **Manual Sheet Feeder Total Sheets**

Total sheets of paper from the manual sheet feeder used to print this job.

## **Manual Sheet Feeder Total Impressions**

Total sides printed on sheets from the manual sheet feeder. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Manual Envelope Feeder Total Sheets**

Total sheets of paper from the manual envelope feeder used to print this job.

## **Manual Envelope Feeder Total Impressions**

Total sides printed on sheets from the manual envelope feeder. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Automatic Envelope Feeder Total Sheets**

Total sheets of paper from the automatic envelope feeder used to print this job.



## **Automatic Envelope Feeder Total Impressions**

Total sides printed on sheets from the automatic envelope feeder. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Tray 1 Total Sheets**

Total sheets of paper from tray 1 used to print this job.

## **Tray 1 Total Impressions**

Total sides printed on sheets from paper tray 1. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Tray 2 Total Sheets**

Total sheets of paper from tray 2 used to print this job.

## **Tray 2 Total Impressions**

Total sides printed on sheets from paper tray 2. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Port ID**

Identifies the port on the printer through which this job arrived, and may be one of the following (if available on this printer):

- 0 = Parallel
- 1 = Serial
- 2 = Network adapter 1
- 3 = Network adapter 2
- 4 = Internal (such as test pages, and so on)

**Host Name**

The name of the network host from which this job was printed. This field will usually be empty if the job did not arrive through a network adapter attached to the printer.

**User Name**

The network user ID used to print this job. This field will usually be empty if the job did not arrive through a network adapter attached to the printer.



### **Tray 3 Total Impressions**

Total sides printed on sheets from tray 3. A duplex sheet always reports two impressions, even if only one side actually contains print.

### **Tray 3 Total Sheets**

Total sheets of paper used to print this job from tray 3.

## **Feeder 2 Total Sheets**

Total sheets of paper from feeder 2 used to print this job.

## **Feeder 2 Total Impressions**

Total sides printed on sheets from feeder 2. A duplex sheet always reports two impressions, even if only one side actually contains print.

**Printer Driver Job Name**

The print job name as defined by the printer driver that was used to print the job. This field may be blank.

## **Tray 1 Total Contone Impressions**

The total sides printed in Contone (continuous tone) mode on sheets from Tray 1. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Tray 1 Total 4-Plane Color Impressions**

The total sides printed in 4-plane color from Tray 1. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Feeder 1 Total 4-Plane Color Impressions**

The total sides printed in 4-plane color mode on sheets from Feeder 1. A duplex sheet always reports two impressions, even if only one side actually contains print.



## **Feeder 1 Total Contone Impressions**

Total sides printed in Contone (continuous tone) mode on sheets from Feeder 1. A duplex sheet always reports two impressions even if only one side actually contains print.

## **Tray 2 Total 4-Plane Color Impressions**

The total sides printed in 4-plane color mode on sheets from Tray 2. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Tray 2 Total Contone Impressions**

Total sides printed in Contone (continuous tone) mode on sheets from Tray 2. A duplex sheet always reports two impressions, even if only one side actually contains print.

## **Source Protocol**

The network protocol used to send this job to the printer. This field will usually be empty if the job did not arrive through a network adapter attached to the printer.

**Job Name**

The network job name. This field will usually be empty if the job did not arrive through a network adapter attached to the printer.

**Queue Name**

The network queue name. This field will usually be empty if the job did not arrive through a network adapter attached to the printer.

## **Other Job Data**

Any user defined job name or other data.

## **Printer Serial Number**

The serial number reported by the currently selected printer.



## **Error Condition**

Any user intervention required or other error reported by the printer, such as Load Paper or Top Cover Open.

If this field is non-blank, this record is not associated with an actual print job that completed on the printer. Fields 7-41 will be equal to 0, and fields 42-47 will be blank.

## **Tracking**

If On is selected, job statistics for the currently selected printer are recorded in the job statistics data file. By default, tracking is turned off for all printers each time MarkVision is started.

## **Total Jobs**

The total number of jobs printed by the current printer through the currently selected connection as recorded in the job statistics data file.

## **Total Sheets**

The total number of sheets printed by the current printer through the currently selected connection as recorded in the job statistics data file.

## **Total Duplex Sheets**

The total number of duplex sheets printed by the current printer through the currently selected connection as recorded in the job statistics data file.

## **Average Time Per Job**

The average time of completion for jobs printed by the current printer through the currently selected connection as recorded in the job statistics data file.

## Connection

The selected radio button indicates for which jobs statistics are currently displayed. A job may arrive at a printer through one of the following four connections (if available on this printer):

- Parallel
- Serial
- Network adapter 1
- Network adapter 2

For example, if serial is selected, the total jobs, total sheets, total duplex sheets, and average time per job shown by MarkVision pertain only to jobs that have arrived at the printer through its serial connection. **The connection selected has no effect on the statistics gathered in the data file, only how those statistics are displayed.**

Select All to show the statistics for all jobs completed by the printer.

**File Name**

Select the name of the file in which to store the job statistics data records.



## **Change Data File**

Use this dialog to change the name or location of job statistics data file.

Choose a directory in which to store the job statistics data file., then choose the drive on which to store the job statistics data file.

The List Files of Type selection controls which file types are displayed.

Click OK to save the selection.

Click Cancel to cancel the selection and exit the dialog.

Click Help for additional information on this topic.

## Maximum File Size

Use this dialog to prevent the job statistics data file from growing beyond the specified size.

Enter a maximum size for the job statistics data file, from 0 to 999999. This value is in kilobytes. For example, if you enter 2000, MarkVision displays a warning if writing a pending record to the file will cause its size to exceed 2 megabytes.

If MarkVision has data to write to this file, but writing the data would cause the file to exceed the specified size, you will be warned. At that point, you may choose to take one of the following three actions:

- ➡ Retry. You may wish to delete old files from the drive where the statistics file is being stored, and then tell MarkVision to retry the operation.
- ➡ Abort. Discard all pending records and automatically turn off job statistics tracking for all MarkVision printers.
- ➡ Ignore. Discard the single record that caused this warning. Job statistics tracking remains turned on. If MarkVision attempts to write another record to this file, the warning occurs again.

Click OK to save the selection.

Click Cancel to cancel the selection and exit the dialog.

Click Help for additional information on this topic.

## **Delete Data Entries**

Use this dialog to delete all records from the job statistics data file that have dates (data fields 3, 4, and 6) prior to the specified date.

Enter a date in mm/dd/yyyy format, where mm represents the month, dd represents the day of the month, and yyyy represents the year. All data entries prior to this date will be deleted from the job statistics data file when OK is selected.

By entering a date in the future such as 12/31/9999, all records will be deleted from the data file when OK is selected.

Click OK to delete from the job statistics data file all records prior to the date entered and exit this dialog.

Click Cancel to cancel the selection and exit the dialog.

Click Help for additional information on this topic.

