

Introduction

Thank you for buying our product. This installation program is used to install files for several different products. Consequently, some of the information you see in this Help file may not apply to the product you purchased.

To run this installation program, just select the appropriate options in the dialogs. If you need help, select the Help button.

Errors during installation

If an error occurs during installation, the program stops. The error appears above the progress bar. If an error occurs when the main window is not visible (for example, when the program is first started), the error message appears in a popup window.

Canceling and aborting installation

Most of the dialog boxes contain a **Cancel** or an **Abort** button:



The **Cancel** button appears when there is no risk of leaving a component partially installed. If you choose the Cancel button, the installation process stops.



The **Abort** button appears whenever there is a risk of leaving a component partially installed. It may take a few moments for the program to recognize that the Abort button has been pressed.

Once you have chosen to cancel or abort the installation, you can exit the application or choose the **Install** button to restart the installation process.

Product information

For product information on this installation program, open the Control menu of the main window and choose **About...**

See also

[Express Installation](#)

[Custom Installation](#)

[Server Installation](#)

Contents

[Introduction](#)

[Step 1: Open the Read Me First file](#)

[Step 2: Select an Installation Method](#)

[Step 3: Click Install](#)

[Installation Methods](#)

[Express Installation](#)

[Custom Installation](#)

[Server Installation](#)

[Directories](#)

[Choose MarkVision Directory](#)

[Choose Server Directory](#)

[Choose Directory for Network Files](#)

[Printer Connections](#)

[Select Printer and Port](#)

[Test Printer Connection](#)

[Setting up Infrared Devices](#)

[Select Infrared Port](#)

[Select Infrared Settings](#)

[Connect your Print Driver to an Infrared Port](#)

[Installing Files](#)

[Insert Disk](#)

[Installation in Progress](#)

[Confirm File Replace](#)

[Confirm Replacement of Settings File](#)

[Printer Drivers](#)

[Default Printer](#)

[Default Driver](#)

[Test Drivers](#)

[Program Manager Icons](#)

[Create Program Manager Item](#)

[Add MarkVision to StartUp Group](#)

[Finishing Up](#)

[Restart Windows](#)

Uncopied Files

Cannot Restart Windows

[Trademarks](#)

Step 1: Open the Read Me First file

After the installation program loads the files, the main dialog for the installation program appears. Click the Read Me First button to view last minute information:

A rectangular button with a thin border and a light gray background. The text "Read Me First..." is centered on the button in a black, sans-serif font.

An ASCII-based read me file appears. You can print this file.



See next

[Step 2: Select an Installation Method](#)

Step 2: Select an installation method

You can choose one of the following installation methods from the main dialog:

Express

When you choose this option from the main dialog box, the installation program automatically installs the files you need for the product you purchased.

Custom

When you choose this option from the main dialog box, the installation program lets you choose which items to install. You can install some of the items now, and others later when you need them.

Server

When you choose this option from the main dialog box, the installation program installs the files to the server directory you specify.

See also

[Express Installation](#)

[Custom Installation](#)

[Server Installation](#)

Step 3: Click Install

After you have read the readme file and selected an installation method, click the Install Now button.



Express Installation

This method automatically installs the files you need for the product you purchased.

See also

[Step 3: Click Install](#)

Custom Installation

When you choose the Custom installation method from the main dialog box, the Custom Installation dialog box appears. This dialog box:

- Lets you pick the items you want to install.
- Shows the amount of memory each component needs.
- Shows the drives and directories where the components will be installed.

You may see any of the following buttons and options:

Component	Size
<input checked="" type="checkbox"/> PostScript Driver	623K
<input checked="" type="checkbox"/> PCL 5 Driver	543K

Lists each item and the memory it requires. Click a box to select or deselect a component. (Note: These images are samples only. Your installation may show different components.)

<input checked="" type="checkbox"/> Network Support	
<input type="radio"/> Netware Interface	660K
<input checked="" type="radio"/> LAN Manager Interface	660K
<input type="radio"/> Unlisted Network	

When components are shown with radio buttons, only one of them may be installed. When the checkbox above is empty, these components will be disabled to remind you that they will not be installed.

Note: You can run the installation program again to install some components at another time.

<input checked="" type="checkbox"/> Temporary files needed during installation	2500K
--	-------

This line shows the amount of temporary hard drive space that is needed during installation.

Note: This item is shown only for informational purposes and cannot be unchecked.

Disk space remaining	
c:\windows\system	3238K
c:\markvis	3238K

Shows the Windows directory for drivers and system files, and the destination directory for MarkVision files. The free space that will be left on the drives after the components are installed is listed for both installation destinations.

Note: The free space calculation does not take into account overwritten files. Even if your destination directory points to a previous installation, this figure is still computed as though you were installing a new copy of the software without replacing older files.

MarkVision destination directory

If MarkVision is already installed on your computer system, the current MarkVision directory is displayed. If MarkVision is not installed, a default directory is displayed. To change the MarkVision directory, choose the **Directories** button.

Directory...

Displays the Choose MarkVision Directory dialog box, where you can change the destination directory for the MarkVision files.

Note: The Windows directory is shown only for informational purposes and cannot be changed.



See also

Step 3: Click Install

Server Installation

Server Installation lets network administrators build a common server directory where Lexmark software will be stored. Users can then install these products from their workstations without having to use floppy disks.

When you choose this option from the Select Installation dialog box, the installation program will copy the software from your floppy disks to the server directory (which you specify by pressing the Directory button.) If that directory does not already exist, it will be created.

When server installation begins, you are given the option of installing MarkVision into the server directory, so local workstations can run the printer utility directly from the network. A window will ask you whether you wish to install a copy of MarkVision that can be run from the network.

Each product in the server directory is stored in a separate directory, so you can use it for many Lexmark products. For example, if your server directory is `s:\lexmark`, then any Optra software might be stored in the `s:\lexmark\optra.w16` directory.

A copy of the installation program is also placed into the server directory.

When a workstation user wants to install a product from the server directory, they can go about it in two different ways:

- a) by running the install program (`linstall.exe`) from the server directory. The install program will run in workstation mode, letting the user install any of the Lexmark products available in the directory.
- b) by using the server-checking feature of MarkVision. When a user runs MarkVision with this feature enabled, during its normal initialization process MarkVision will examine the server directory for any new products. If new software has been placed there, the install program will be launched in workstation mode, giving the user the opportunity to install the new software.

Note: The second technique (b) differs from (a) because it only updates drivers. In other words, to install software other than drivers from the server, you cannot use MarkVision - you must use the first method.

See also

[Step 3: Click Install](#)

[Choosing Networks for Server Installation](#)

[Workstation Installation from the Server Directory](#)

[Running MarkVision from the Network](#)

[Notes for Network Administrators](#)

Choosing Networks for Server Installation

When you install software into the server directory, the install program asks whether you want to install network support for MarkVision. Select the networks you wish to install and then press **OK** to continue.

If your workstation users will not be installing network support for MarkVision, you can simply press **OK** without selecting any networks.



See also

[Server Installation](#)

[Notes for Network Administrators](#)

Running MarkVision from the Network

Installing MarkVision on the Server

Before individual workstations can run MarkVision from the network, the network administrator must install it in the server directory. At the beginning of server installation, a dialog box will ask whether this feature will be supported.

Configuring Local Workstations

Before you can run MarkVision from the network, you must configure the local workstation. When the install program in the server directory is executed in workstation mode, the network-runnable version MarkVision will appear as one of the products available for installation. Using this technique, the local workstation will be configured to use the network copy of MarkVision.

Note: When MarkVision is configured to run from the network, some files must still be copied to the local machine. However, the bulk of the files will remain on the server.

See also

Notes for Network Administrators

Server Installation

Workstation Installation from the Server Directory

Notes for Network Administrators

Quiet Mode

Normally, when a user runs `linstall.exe` in workstation mode, a dialog box will list the available products even if none of them are new. The program can also be used in *quiet mode*, preventing any prompts from appearing unless the server holds new products. Quiet mode lets you check the server invisibly, only disturbing you when new software needs to be installed. A common example would be to create an icon in the Program Manager StartUp group that checks the server each time Windows is loaded.

To launch `linstall.exe` in quiet mode, use the `-q` commandline option. (For example, `linstall.exe -q`.)

Product Age


A product is considered *new* if software has been placed in the server directory (using the Server Installation method) since the last time the user installed the same product from the server. In other words, the version or release date of the actual software itself is *not* used; instead, the age of a product is measured from the moment it was copied to the server directory.

To determine which server products are newer than the software on a workstation, the install program uses the `products.ini` file in the server directory. The `products.ini` file lists which products are available on the server, and when they were placed there.

When a product is installed onto a workstation, the local `win.ini` file (in the Windows directory) is used to remember the timestamp from `products.ini`.

This method of using INI files is faster than checking each file of a product for timestamps or version numbers, because it gives the entire package a single age. It also allows older versions of a product to appear new, in the event it becomes necessary to revert to a previous release. In this case, the network administrator would simply reinstall the older product into the server directory (again using the Server Installation method), overwriting the newer version.

Once the installation process begins, the normal technique is used to determine any individual files age, based on its timestamp and optional version resource.



Choose MarkVision Directory

This dialog box lets you specify a destination drive and directory for the MarkVision printer utility files that will be installed.

You can type the path you want or double-click on an existing MarkVision installation. If the directory you want does not appear in the list, you may have to change drives by selecting a different drive from the Drives list.

If you want to store MarkVision in a new directory, you can enter the new path and any new directories will be created when the files are installed.

Note: If you already have MarkVision installed on your computer, we recommend using the default destination directory. This is the same directory you used during the previous installation.



Choose Server Directory

This dialog box lets you specify the location of the server directory.

You can type the path you want or double-click on an existing directory. If the directory you want does not appear in the list, you may have to change drives by selecting a different drive from the Drives list.

If you want to create a new directory, you can enter the new path and the necessary directories will be created when the files are installed.

See also

[Server Installation](#)

[Notes for Network Administrators](#)

Choose Directory for Network Files

This dialog box lets you specify the location for the network support files. By default, this directory is placed within your existing MarkVision directory.

You can type the path you want or double-click on an existing directory. If the directory you want does not appear in the list, you may have to change drives by selecting a different drive from the Drives list.

If you want to create a new directory, you can enter the new path and the necessary directories will be created when the files are installed.



Select Printer and Port

This dialog box lets you tell the installation program the printer model you want to install and the port assignment for the printer. This dialog box is only displayed if you are installing one of the printer drivers.


When only one printer model is available for installation, the dialog box will only ask for the port and will not ask for the model.

Click to select the printer and the port you want, and press **OK**.

Note: To configure your printer or serial ports, use the Windows Control Panel.

Test Printer Connection

This test sends a one page file to your printer. If the file prints, the connection between your printer and computer is functioning correctly.



Select Infrared Port

Select the port you will be using for infrared printing. If you select <none>, you will not be able to print from an infrared port.



See also

[Select Infrared Settings](#)

[Connect your Print Driver to an Infrared Port](#)

Connect your Print Driver to an Infrared Port

This dialog box allows you to connect your print driver to an infrared port. To make the connection:

- 1 From the list of installed printers, select the print driver you will be using.
- 2 Connect the printer to an infrared port. This is the port you selected for infrared printing.



See also

[Select Infrared Port](#)

[Select Infrared Settings](#)

Select Infrared Settings

These settings allow you to use MarkVision with an Infrared device, such as MarkNet IR.

Infrared Device

Select the type of infrared device for your computer.

IR Port

Select a port from this list box to notify MarkVision of the location of the infrared (IR) port in your computer. Before you make a selection, you must know what COM port is configured for infrared. With some infrared hardware, this setting is grayed out because the infrared port has been identified by the software.

To select an IR Port:

1 Select one COMx from the list box, where x is 1, 2, 3, or 4.

If you removed the serial infrared adapter card, select None for the IR Port setting.

2 Click OK to activate your selection or Cancel to exit without activating your selection.

See also

[Select Infrared Port](#)

[Connecting your Print Driver to an Infrared Port](#)

Insert Disk

This dialog box asks you to insert a disk, or specify a path containing the necessary files needed to continue the installation process. The name of the disk and a graphical representation are shown.

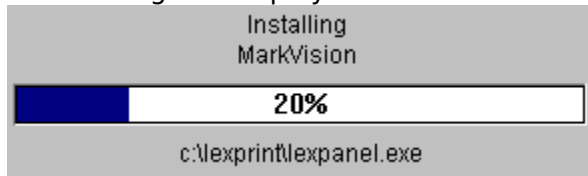
If you are installing from floppy disks, insert the requested disk.

If you are installing from a network, type the path for the directory containing the files from the requested disk.



Installation In Progress

This dialog box displays the status of the installation process.



Above the progress bar, the name of the component being installed is shown.

The progress bar graphically shows how much of the total installation is complete. The percent value gives a numeric estimate of installation progress.

Note: The progress bar is updated only after a file is fully copied. For large files, especially archive files, the progress bar may remain unchanged for a longer period of time. If you want to verify that the installation is still proceeding normally even though the progress bar is not changing, you can look at the lights on your disk drives. These lights indicate when a drive is in use, and will be lit while the installation program is working.

The individual files being installed for each component are listed below the progress bar.

Only the file name is displayed when expanding archive files, because these files are not copied as-is to the destination directory. Instead, they are processed in a temporary directory on your hard drive. The full path is displayed for files that will stay on your hard drive.



Confirm File Replace

This dialog box is displayed when a file to be installed is older than an existing file with the same name. You can choose to replace or not replace the existing file. This option allows you to install older versions of software when that is necessary.

File: cti3d.dll
Destination: c:\windows\system

Lists the name of the file to be installed and the destination directory. A file with the same name and a later date already exists in this directory.

Existing file	Replace with
Size: 744 Time: Wed Aug 17 16:01:22 1994 Version:	Size: 759 Time: Mon Jul 25 15:34:14 1994 Version:

Lists information about the existing file and the file to be installed.

Note: As in the above example, some files do not have version numbers.

Replace

Replaces the existing file with the file from the installation program and continues the installation process. Later, if another newer existing file is found, the Confirm File Replace dialog box will display again.

Replace All

Replaces the existing file with the file from the installation disk and continues the installation process. If any conflicts occur again during this install, they will be replaced without confirmation.

Skip

Leaves the existing file as it is and continues the installation process. Later, if another newer existing file is found, the Confirm File Replace dialog box will display again.

~~~~~



## Confirm Replacement of Settings File

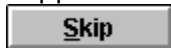
This dialog box is displayed when the installation program is about to overwrite an existing file that stores settings for an application. The first line of text gives the filename, and the next line describes the application that uses it.

Generally, this dialog will appear when an INI file is about to be overwritten.

You can choose to replace or not replace the existing file.



Replaces the existing file with the default settings file. Any previous settings for the application will be replaced by defaults.



Leaves the existing file as it is and continues the installation process. The newly installed software will still function correctly even with this old file.




## Default Printer

This dialog box lets you choose whether the printer you are installing is to be the default printer. This dialog box is only displayed if you are doing a Custom installation and are installing one of the printer drivers.

If you choose the **Yes** button and are installing more than one driver for this printer, another dialog box lets you select the default driver.

Press **Yes** to make the new printer the default printer.



See also

Select Installation

Custom Installation

Default Driver

## **Default Driver**

When more than one driver is installed for a printer, and it is the default printer for Windows, the installation program will ask you to pick one of the drivers as the default.

For example, an Optra printer can be used with a PostScript\*\* driver and a PCL\*\* 5 driver. Both of these drivers can be installed at the same time. However, if you want to use the Optra as your default printer in Windows, you must also pick which driver will be used by default.



See also

[Default Printer](#)

[Trademarks \(\\*\\*\)](#)

## Test Drivers

This test sends a one page test file to your printer for each driver installed. If the file prints, the associated driver is functioning correctly.

**Note:** Some printer drivers cannot be tested until the installation is complete and Windows has been restarted. This dialog box will not appear if your driver does not support it.



## Create Program Manager Items

When you install MarkVision, a new icon can be created inside Program Manager.

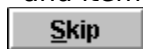


Lists the default group (MarkVision) and your other Program Manager groups. Open the list and click to select a group other than MarkVision, or type a name for a new group and it will be created.



Displays the item name. You can type the name you want to use for MarkVision.

**Note:** If a previous version of MarkVision is installed, you can specify the existing group and item names and they will be updated to use the new files.



Lets you choose not to create a MarkVision icon in Program Manager.

See also

[Custom Installation](#)

## **Add MarkVision to StartUp Group**

If you press **Yes**, MarkVision will be started automatically when Windows first loads. If you press **No**, you will have to start MarkVision yourself (usually by double-clicking on the MarkVision icon.)

**Note:** Later, if you change your mind and do not want MarkVision to be ran each time you start Windows\*\*, you can delete the icon from the Program Manager group window labeled StartUp.



See also

[Create Program Manager Item](#)

[Trademarks \(\\*\\*\)](#)

## Restart Windows

Lets you choose whether to restart Windows after the installation process is complete. Many low-level programs such as printer drivers will not function until Windows is restarted.

**Restart Windows**

By default, the **Restart Windows** button is selected, so you can continue simply by hitting the Enter key. This is the choice most people will want to use.

**Stay in Windows**

If you wish to stay in Windows\*\*, choose **Stay in Windows**.

**View files not copied...**

If this button is shown on the dialog, then the installation was not completed because some files were not able to be installed. The installation program will not overwrite a file if it is currently being used. To complete the installation, these files need to be copied from MS-DOS, when Windows is no longer running. If you press this button, the list of uncopied files will be displayed.

**Important note:** *We strongly suggest restarting Windows\*\* at this point.* If there were files that were not copied, the *only* way to complete the installation is to exit Windows\*\* from this dialog box. This is necessary because a special program is used to copy the files after you exit Windows\*\*, and this program will not be run unless you exit from here. Even if all the files were able to be copied while in Windows\*\* (the typical case), some printers require additional configuration using the MarkVision utility before the printer can be said to be fully installed. This second phase of configuration requires that you restart Windows\*\* and run MarkVision.

After you have made your choice, press the **OK** button to exit the dialog box.

See also

Cannot Restart Windows

Uncopied Files

## Cannot Restart Windows

When a program tries to restart Windows\*\*, other applications running at the time can prevent the attempt from succeeding. Usually, they do this so that you can save your work first or exit cleanly.

Before you attempt to restart Windows\*\* again, shut down the other applications (except Program Manager leave it running.)

You will usually have to `exit` any DOS windows before trying again.

A rectangular button with a dark border and a light background, containing the text "Restart Windows" in a bold, sans-serif font.

Press this button when you have shut down other programs and are ready to try again.

A rectangular button with a dark border and a light background, containing the text "Cancel" in a bold, sans-serif font.

Press this button if you decide to stay in Windows\*\*.

**Important note:** *We strongly suggest restarting Windows\*\*.* See the note on the Restart Windows help page.

See also

[Restart Windows](#)



## Uncopied Files

This dialog lists files which were not able to be installed. This happens when the existing files are being used when the installation takes place.

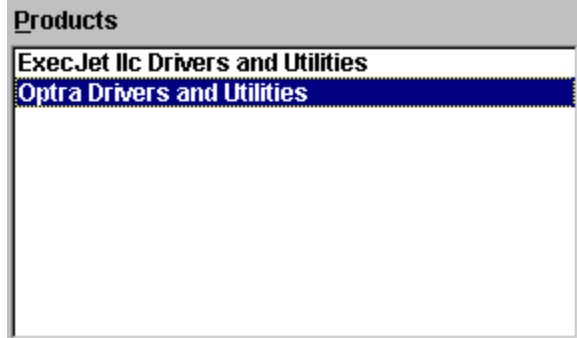
Press the **OK** button to return to the Restart Windows dialog box.

See also

[Restart Windows](#)

## Workstation Installation from the Server Directory

When you install software from the server directory, the install program displays a dialog box that lets you pick from the available products.



The components which are newer than the existing software on your workstation will be selected when you first see the dialog.

Select the components you wish to install, and press the **Install** button. As each product is installed, it will be deselected in the list. When finished, you are returned to this dialog box, where you can install other products or exit.

Press the **Done** button to exit the dialog.


**Notes for MarkVision users:** When this dialog box is invoked from MarkVision, only printer drivers will be installed. A message in the window will indicate this with the text **DRIVERS ONLY**. If you wish to install other components and not only drivers, you must run the `linstall.exe` program in the server directory instead of updating your software at this time. For example:

Your network administrator buys a new Lexmark printer and installs the updated software on the server, in drive `s:\lexmark`. The next time you run MarkVision on your client workstation, the new software is detected and you are asked whether you wish to install drivers. You want to upgrade your current version of MarkVision in addition to the drivers, so you choose **Done** instead of installing the drivers at this time. When you are finished with MarkVision, you run the install program from the server directory, `s:\lexmark\linstall.exe`. At this point, you select the newly updated product and choose **Install**.



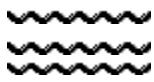
## **Install the MarkVision Printer Utility First**

You do not have the MarkVision Printer Utility installed on this computer. If you plan to use a Lexmark printer with an Infrared printing device (such as MarkNet IR), follow these steps:

- 1 Exit the installation program.
  - 2 Install the setup program which came with your printer.
  - 3 Run this installation program to upgrade the printer utilities.
- 

## Is this an infrared-enabled computer?

Your computer is infrared-enabled if an infrared port other than MarkNet IR is:



built into the computer, or  
connected to the computer

## **Exit now to install TranXit?**

### **If you plan to use file transfer with MarkNet IR:**

- 1 Click the Yes button.  
The installation program ends so you can install TranXit.
- 2 Install TranXit.
- 3 Run connection setup.
- 4 Click Setup.
- 5 During setup, make sure you do not select a fixed device mode.
- 6 When you are finished installing TranXit, exit the utility.
- 7 Run this installation program to upgrade the MarkVision Printer Utility.

**If you do not plan to use file transfer with MarkNet IR, click No.**



**bidirectional communication**

A mode of communication where two pieces of equipment can transmit information to and receive information from each other.

**component**

A collection of related files. For example, the 10 or 15 files that comprise MarkVision are a single component.

**control menu box**

The icon that opens the Control menu for the dialog box or window. It is always in the left corner of the title bar.



**port**

Pathway into and out of the computer. The serial and parallel ports on a personal computer are external sockets for plugging in communications lines, modems, and printers.

**printer driver**

A program that controls how your computer and printer interact. The printer driver supplies Windows with information, such as the printing interface, description of fonts, and features of the installed printer.

**server directory**

A public directory where software will be placed. Individual workstations on the network can install the software by running the program `linstall.exe` from this directory.

**archive file**

A file, usually with a filetype of `.zip`, that stores compressed data needed by the installation program. A single archive file often contains several files within itself, and provides an efficient way of packaging programs.

**MarkVision**

MarkVision is a Windows\*\* program that lets you monitor and configure your Lexmark printers. Sometimes this documentation refers to MarkVision as the printer utility.

## **Trademarks**

Lexmark, MarkNet IR, MarkVision, and Optra are trademarks of Lexmark International, Inc. PCL® is a registered trademark of the Hewlett-Packard Company. PCL 5 is Hewlett-Packard Company's designation of a set of printer commands (language) and functions included in its printer products. This printer system is designed and manufactured by Lexmark International, Inc. to be compatible with the PCL 5 language. This means that the printer system recognizes PCL 5 commands used in various application programs, and that the printer system emulates the functions corresponding to the commands.

Other trademarks are the property of their respective owners.

