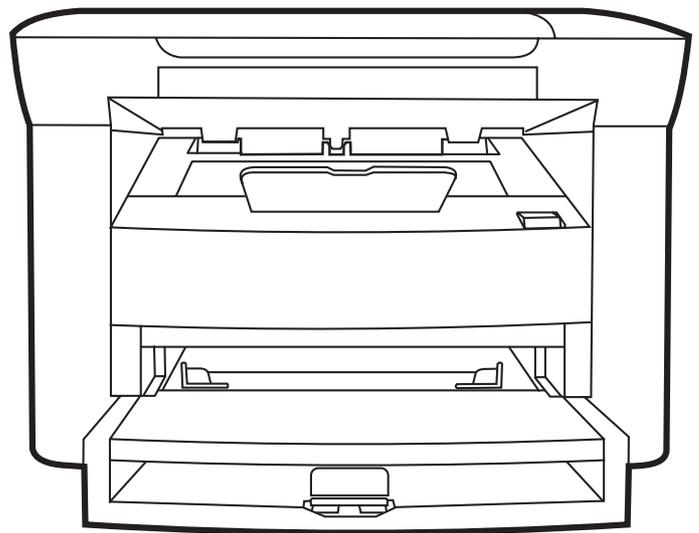


HP LaserJet M1120 MFP Series

Software Technical Reference



HP LaserJet M1120 MFP Series

Software Technical Reference



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1 Purpose and scope

Introduction

This software technical reference (STR) provides information about and troubleshooting tips for the HP LaserJet M1120 MFP Series software.

This STR is prepared in an electronic format to serve as a quick-reference tool for Customer Care Center (CCC) agents, support engineers, system administrators, management information systems (MIS) personnel, and HP LaserJet M1120 MFP Series end users, as appropriate.

The following information is included in this STR:

- Descriptions of print drivers, operating system support, and system modifications
- Procedures for installing and uninstalling software components
- Descriptions of various HP LaserJet M1120 MFP Series topics, including engineering details

The following table describes the structure of this STR.

Table 1-1 Software technical reference overview

Chapter	Content
Chapter 1, Purpose and scope	<p>This chapter contains basic information about the HP LaserJet M1120 MFP Series and the HP LaserJet M1120 MFP Series software:</p> <ul style="list-style-type: none"> ● Overview of the HP LaserJet M1120 MFP Series ● Printing-system software overview, including the following topics: <ul style="list-style-type: none"> ◦ System requirements ◦ Operating-system support ◦ Availability ● HP LaserJet software documentation
Chapter 2, Software description	<p>This chapter provides an overview of the printing-system software installer and print drivers.</p> <p>This chapter also contains general information about other software features, including the following topics:</p> <ul style="list-style-type: none"> ● HP LaserJet Scan software program and driver ● Readiris Professional text-recognition
Chapter 3, Install Microsoft® (MS) Windows® printing-system components	<p>This chapter provides instructions for installing the HP LaserJet M1120 MFP Series in MS Windows operating systems.</p>

Table 1-1 Software technical reference overview (continued)

Chapter	Content
Chapter 4, Host-based driver features for MS Windows	This chapter provides detailed descriptions of the host-based driver features for MS Windows.
Chapter 5, Installation for Macintosh operating systems	This chapter provides instructions for installing the HP LaserJet M1120 MFP Series in Macintosh operating systems and using Macintosh features.
Chapter 6, Engineering details	This chapter contains information about the following special topics: <ul style="list-style-type: none">• Media attributes• Remote firmware update

For information about the location of information within chapters, see the table of contents. An index is provided in this STR.

Additional detailed information about the HP LaserJet M1120 MFP Series software is published in an addendum to this STR. The following information is available only in the addendum:

- Lists of installed files
- System-modification information, such as changes to the registry and registry keys
- Descriptions of known software issues and solutions

Topics:

- [HP LaserJet M1120 MFP](#)
- [Printing-system software](#)
- [Documentation availability and localization](#)

HP LaserJet M1120 MFP

The following table describes the features of the device.

Table 1-2 Features of the HP LaserJet M1120 MFP Series

Feature	HP LaserJet M1120 MFP Series
HP Product Numbers	<ul style="list-style-type: none"> ● CB537A (HP LaserJet M1120 MFP) ● CC459A (HP LaserJet M1120n MFP)
Memory	<ul style="list-style-type: none"> ● 32 megabytes (MB) of random-access memory (RAM)
Speed	<ul style="list-style-type: none"> ● Prints letter-size pages at speeds up to 20 pages per minute (ppm) and A4-size pages at speeds up to 19 ppm. ● First page out in less than 7 seconds
Connectivity	<ul style="list-style-type: none"> ● A 2.0 hi-speed universal serial bus (USB) port ● HP LaserJet M1120n MFP includes a 10/100 Base-T Ethernet network port ● HP LaserJet M1120n MFP supports IPv4 and IPv6 network protocols
Paper handling	<ul style="list-style-type: none"> ● Priority input tray holds up to 10 sheets of paper or 1 envelope ● Tray 1 holds up to 250 sheets of paper or 10 envelopes ● Output bin holds up to 100 sheets of paper
Print	<ul style="list-style-type: none"> ● Prints at 600 dots per inch (dpi) and FastRes 1200 dpi ● Includes adjustable settings to optimize print quality ● Manual two-sided (duplex) printing
Copy	<ul style="list-style-type: none"> ● Copies at 300 dpi ● Manual two-sided (duplex) copying
Scan	<ul style="list-style-type: none"> ● Flatbed scanner ● HP LaserJet Scan software and driver ● Provides 1200 pixels per inch (ppi) full-color scanning ● Readiris optical character recognition (OCR) <p>NOTE: The OCR software is not installed with the HP LaserJet M1120 MFP Series software. The OCR software is included on a separate CD and requires a separate installation.</p>
Printer driver features	<ul style="list-style-type: none"> ● HP LaserJet M1120 MFP Series host-based driver ● FastRes 1200 produces 1200 dpi print quality for fast, high-quality printing of business text and graphics
Economical printing	<ul style="list-style-type: none"> ● Provides N-up printing (printing more than one page on a sheet) ● Provides an EconoMode setting, which uses less toner
Supplies	<ul style="list-style-type: none"> ● Uses a no-shake print cartridge ● The product ships with a 1,000-page (average yield) starter cartridge. The average yield for replacement cartridges is 2,000 pages.

Printing-system software

Topics:

- [MS Windows system requirements](#)
- [Operating-system support](#)
- [Availability](#)

MS Windows system requirements

- Pentium® II or compatible processor
- 233-MHz processor with 64 MB RAM
- 35 MB of disk space
- Minimum 16-color/grayscale display with 800 x 600 pixel resolution super video graphics array (SVGA)
- Onboard USB port
- CD-ROM drive or Internet connection

Operating-system support

MS Windows operating systems provide full-featured support for the HP LaserJet M1120 MFP Series. Operating systems that are not described in this document provide varying levels of functionality.

 **NOTE:** Throughout this document, MS Windows XP is used to denote MS Windows XP Home Edition, and MS Windows XP Professional, unless noted otherwise.

The HP LaserJet M1120 MFP Series software does not support MS Windows 3.1x, MS Windows NT® 4.0, MS Windows 95, MS Windows 98, MS Windows Millennium Edition (Me), or MS Windows Server 2000.

For more information about the HP LaserJet M1120 MFP Series, go to the following Web site:

www.hp.com/support/ljm1120

Topics:

- [Full software installation](#)
- [Standalone drivers](#)
- [Driver support in other operating systems](#)

Full software installation

The following operating systems support the full software installation for the HP LaserJet M1120 MFP Series:

- MS Windows Vista (32-bit)
- MS Windows Server 2003 (32-bit)

- MS Windows XP (32-bit)
- MS Windows 2000

Standalone drivers

The following operating systems support the HP LaserJet M1120 MFP Series print and scan drivers:

- MS Windows Vista (64-bit)
- MS Windows Server 2003 (64-bit)
- MS Windows XP (64-bit)

Driver support in other operating systems

The HP LaserJet M1120 MFP Series print and scan drivers are also supported in the following operating system:

- Mac OS X V10.3 and later

 **NOTE:** For Mac OS V10.4 and later, PPC and Intel Core Processor Macs are supported.

Availability

Download the software from the Web, or order it on a CD from HP fulfillment centers.

 **NOTE:** This STR describes drivers that are shipped with the printing-system software CD. This STR does *not* describe any drivers that might be released by support personnel.

Topics:

- [Software on the Web](#)
- [In-box software CD](#)

Software on the Web

All software that is contained on the installation CD is also available on the Web.

Web deployment is the preferred method for obtaining the latest software. The HP Web site offers an option for automatic e-mail notification of new software releases.

The HP LaserJet M1120 MFP Series software is available for download at the following Web site:

www.hp.com/go/ljm1120_software

In-box software CD

The software CD for the HP LaserJet M1120 MFP Series contains a variety of files for installing the software on the computer.

 **NOTE:** The Readiris software uses a separate installer that comes on a separate CD.

The HP LaserJet M1120 MFP Series software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

The files in each partition include documentation files and files that are required in order to install and uninstall the software components.

Topics:

- [Windows partition](#)
- [CD versions](#)

Windows partition

The root directory in the MS Windows partition of the software CD contains the HPSETUP.EXE file, the SETUP.EXE file, and the following directories and support files:

- Arabic
- Bulgarian
- Catalan
- Cestina
- Dansk
- Deutsch
- DotNet
- Eesti
- English
- Espanol
- ExtCap
- Francais
- Greek
- Hebrew
- Hrvatski
- images
- Indonesian
- Italiano
- Kazakh
- Korean
- LangFls

- Latviski
- Lietuviskai
- Magyar
- Nederlands
- Norsk
- NtwkPortMon
- Polski
- Portugues
- Romanian
- Russian
- ScanTo
- Screen Fonts
- Simplified_Chinese
- Slovak
- Slovenian
- Srpski
- Suomi
- Svenska
- Thai
- Traditional_Chinese
- Turkce
- Ukrainian
- Utilities
- vcredist
- Viet_Nam
- x64

The software files and help documentation for each language reside in the following subdirectories:

- Manuals
- Digital Imaging

To view the files, insert the HP LaserJet M1120 MFP Series software CD into the CD-ROM drive, right-click **Start**, click **Explore**, and then select the CD-ROM drive.

CD versions

The HP LaserJet M1120 MFP Series software CD is available in a single version (Part No. CB537-60120) that contains software in these languages:

- AR = Arabic
- BG = Bulgarian
- CA = Catalan
- CS = Czech (Cestina)
- DA = Danish (Dansk)
- DE = German (Deutsch)
- EL = Greek
- EN = English
- ES = Spanish (Español)
- ET = Estonian (Eesti)
- FI = Finnish (Suomi)
- FR = French (Français)
- HE = Hebrew
- HR = Croatian (Hrvatski)
- HU = Hungarian (Magyar)
- ID = Indonesian
- IT = Italian (Italiano)
- KK = Kazakh
- KO = Korean
- LT = Lithuanian (Lietuviskai)
- LV = Latvian (Latviski)
- NL = Dutch (Nederland)
- NO = Norwegian (Norsk)
- PL = Polish (Polski)
- PT = Brazilian Portuguese (Português)
- RO = Romanian
- RU = Russian
- SK = Slovak
- SL = Slovenian

- SV = Swedish (Svenska)
- TH = Thai
- TR = Turkish (Türkçe)
- UK = Ukrainian
- VI = Vietnamese
- ZHCN = Simplified Chinese
- ZHTW = Traditional Chinese

The following tables list the software components that are supported in each language.

Table 1-3 AR – FR

Component	AR	BG	CA	CS	DA	DE	EL	EN	ES	ET	FI	FR
HP LaserJet M1120 host-based driver	x	x	x	x	x	x	x	x	x	x	x	x
Common MS Windows Installer				x	x	x		x	x		x	x
Add Printer Wizard Installer								x				
CD Browser				x	x	x		x	x		x	x
HP LaserJet Scan				x	x	x		x	x		x	x
Fonts			x	x	x	x		x	x		x	x
HP Web Registration				x	x	x		x	x		x	x
HP LaserJet M1120 MFP User Guide (.PDF file)	x	x	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1120 MFP User Guide (.CHM file)	x	x	x	x	x	x	x	x	x	x	x	x
Hewlett-Packard LaserJet M1120 MFP Install Notes	x	x	x	x	x	x	x	x	x	x	x	x

Table 1-4 HE – PL

Component	HE	HR	HU	ID	IT	KK	KO	LT	LV	NL	NO	PL
HP LaserJet M1120 host-based driver	x	x	x	x	x	x	x	x	x	x	x	x
Common MS Windows Installer			x		x		x			x	x	x
Add Printer Wizard Installer												
CD Browser			x		x		x			x	x	x
HP LaserJet Scan			x		x		x			x	x	x

Table 1-4 HE – PL (continued)

Component	HE	HR	HU	ID	IT	KK	KO	LT	LV	NL	NO	PL
Fonts			x		x					x	x	x
HP Web Registration			x		x		x			x	x	x
HP LaserJet M1120 MFP User Guide (.PDF file)	x	x	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1120 MFP User Guide (.CHM file)	x	x	x	x	x	x	x	x	x	x	x	x
Hewlett-Packard LaserJet M1120 MFP Install Notes	x	x	x	x	x	x	x	x	x	x	x	x

Table 1-5 PT – ZHTW

Component	PT	RO	RU	SK	SL	SR	SV	TH	TR	UK	VI	ZHC N	ZHT W
HP LaserJet M1120 host-based driver	x	x	x	x	x	x	x	x	x	x	x	x	x
Common MS Windows Installer	x		x				x		x			x	x
Add Printer Wizard Installer													
CD Browser	x		x				x		x			x	x
HP LaserJet Scan	x		x				x	x	x			x	x
Fonts	x		x				x		x				
HP Web Registration	x		x				x		x			x	x
HP LaserJet M1120 MFP User Guide (.PDF file)	x	x	x	x	x	x	x	x	x	x	x	x	x
HP LaserJet M1120 MFP User Guide (.CHM file)	x	x	x	x	x	x	x	x	x	x	x	x	x
Hewlett-Packard LaserJet M1120 MFP Install Notes	x	x	x	x	x	x	x	x	x	x	x	x	x

Documentation availability and localization

On the main screen of the printing-system software CD browser, click **Help** to open the HP LaserJet M1120 MFP Series documentation and support screen.

Figure 1-1 Installation software CD documentation and support screen



The following table lists HP LaserJet M1120 MFP Series documents that are available for each operating system.

Table 1-6 Documentation availability

Document	MS Windows Vista	Macintosh
	MS Windows Server 2003	
	MS Windows XP	
	MS Windows 2000	
Hewlett-Packard LaserJet M1120 MFP Install Notes	x	x
HP LaserJet M1120 MFP User Guide (.PDF file)	x	x
HP LaserJet M1120 MFP User Guide (.CHM file)	x	

Access to HP LaserJet documents depends on the type of document and its location:

- Some documents can be opened from the CD Browser.
- Some documents appear on the software CD and can be opened by navigating to the folder where they reside.
- Some documents are available on the Web through links in the CD Browser or CD folders.

Documents are available in the following file formats:

- **Portable Document Format (.PDF)**. The HP LaserJet M1120 MFP Series software CD includes Adobe® Acrobat® Reader for viewing online documentation.
- **Compiled HTML (.CHM)**. When you click a documentation link to a .CHM document, a Microsoft HTML Viewer opens the file on the computer screen.
- **Hypertext Markup (.HTM)**. When you click a documentation link to an .HTM document, a Web browser opens the file on the computer screen.

The following documents are available:

- [HP LaserJet M1120 MFP Series User Guide](#)
- [Hewlett-Packard LaserJet M1120 MFP Install Notes](#)

HP LaserJet M1120 MFP Series User Guide

The *HP LaserJet M1120 MFP Series User Guide* describes the basic device features.

To view this guide from the software CD, follow these steps:

1. In the main screen of the CD browser, click **Help**.
2. Click **Users Guide**.

The guide opens as an MS Windows Help file (.CHM file). This readable, onscreen version of the guide is provided in accordance with the Americans with Disabilities Act (ADA).

You can also gain access to the file by following these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open HP1120UG.CHM.

The *HP LaserJet M1120 MFP Series User Guide* is provided as a printable .PDF file. To print the guide, follow these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open HP1120UG.PDF.

When the file is open, click **File** and then click **Save As** to save a copy of the file to another location.

Hewlett-Packard LaserJet M1120 MFP Install Notes

The *Hewlett-Packard LaserJet M1120 MFP Install Notes* (in .HTM format) contains important information about device features, instructions for installing the printing-system software, and technical assistance.

To view this guide from the software CD, follow these steps:

1. In the main screen of the CD browser, click **Help**.
2. Click **Install Notes**.

You can also gain access to the file by following these steps:

1. Insert the software CD into the CD-ROM drive.
2. Navigate to the <language>\Manuals folder.
3. Open LJM1120_INSTALLNOTES.HTM.

2 Software description

Introduction

The HP LaserJet M1120 MFP Series comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. For information about specific system installers, drivers, and components, see the section that corresponds to that operating system.

 **NOTE:** The HP Toolbox is *not* available on the HP LaserJet M1120 MFP Series.

Topics:

- [Windows printing-system software](#)
- [HP Embedded Web Server \(HP LaserJet M1120n MFP only\)](#)
- [HP Extended Capabilities](#)
- [HP Status Application](#)
- [Scanning software](#)
- [Optional software](#)

Windows printing-system software

Topics:

- [Software and installer](#)
- [HP LaserJet host-based print driver](#)

Software and installer

Topics:

- [HP LaserJet M1120 MFP Series software CD for MS Windows systems](#)
- [Installer features](#)

HP LaserJet M1120 MFP Series software CD for MS Windows systems

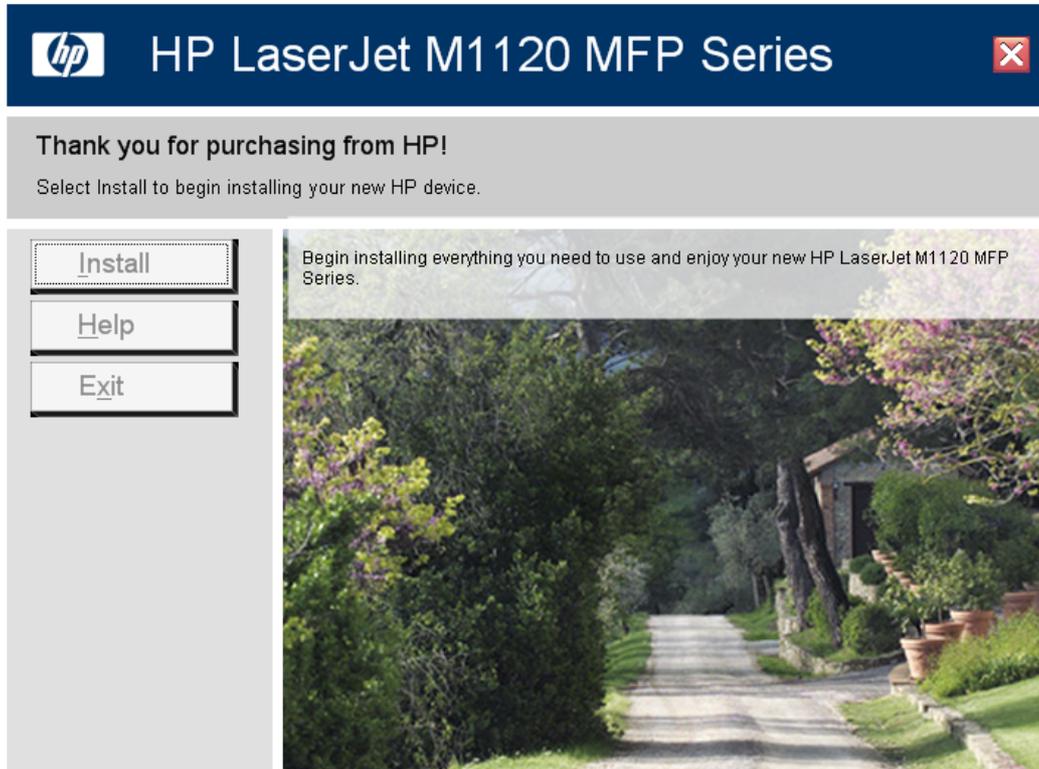
In the MS Windows Vista, MS Windows Server 2003, MS Windows XP, and MS Windows 2000 operating systems, insert the HP LaserJet M1120 MFP Series software CD into the CD-ROM drive to open an interactive CD browser. Use the CD browser to install the print driver and related components, and to gain access to online user documentation.

 **NOTE:** Readiris Professional V11.0 text-recognition software by IRIS is also included with the HP LaserJet M1120 MFP Series products. This software is included on a separate CD and uses a separate installer.

The following figure shows the main screen of the HP LaserJet M1120 MFP Series printing-system software CD. If the screen does not appear when you insert the software CD into the CD-ROM drive, follow these steps to open the CD browser:

1. Click **Start**.
2. Click **Run**.
3. Click **Browse...**, and navigate to the root directory of the software CD.
4. Double-click the SETUP.EXE file to start the installer.

Figure 2-1 Installation software CD browser



The main screen of the software CD contains options in the left panel. Move the cursor over each option to see a description of the option.

 **NOTE:** The options on devices might differ from the illustration.

Install. The installation wizard guides the HP LaserJet M1120 MFP Series software installation.

Help. Use this option to view the HP LaserJet M1120 MFP Series user documentation and support. The following options are available:

- **Install Notes**
- **Users Guide**
- **Product Support Website**

Installer features

The common installer is designed to provide a simple and consistent installation method for the device. The common installer is available for the MS Windows Vista, MS Windows Server 2003, MS Windows XP, and MS Windows 2000 operating systems and features an interactive software interface.

The HP LaserJet M1120 MFP Series software CD also includes the following features:

- The HP LaserJet Uninstaller Utility
- HP Extended Capabilities

- HP Status Application
- The HP LaserJet Scan software

All of the MS Windows system components are installed by using the HP LaserJet M1120 MFP Series common installer. The installer automatically detects the language of choice and the operating system. If required, the installer also updates the device firmware.

HP LaserJet host-based print driver

HP LaserJet M1120 MFP Series host-based print driver provides access to the printing features, such as paper-handling and print-quality features, and communication between the computer and the device. The printing system includes software for end users and network administrators who are working in the following operating systems:

- MS Windows Vista (32-bit), MS Windows Server 2003 (32-bit), MS Windows XP (32-bit), and MS Windows 2000
- Apple Mac OS X V10.3 and later

 **NOTE:** For the latest information about the software components, see the readme files on the CD. For additional information about installing the software, see the *Hewlett-Packard LaserJet M1120 MFP Install Notes* on the software CD.

Print-driver version numbers for MS Windows operating systems

Access to print-driver version numbers varies, depending on the operating system in which the HP LaserJet M1120 MFP Series is installed.

 **NOTE:** For a list of HP LaserJet M1120 MFP Series print drivers, updated HP software, and device-support information, go to the following Web site:

www.hp.com/go/ljm1120_software

The MS Windows Vista, MS Windows Server 2003, MS Windows XP, and MS Windows 2000 operating systems support the HP host-based driver. When using an HP host-based driver in one of these operating systems, follow these steps to find driver-version information:

1. Click **Start**.
2. Select **Settings**.
3. Click **Printers and Faxes** (in MS Windows Vista, MS Windows Server 2003, and MS Windows XP) or **Printers** (in Windows 2000).
4. Right-click the device icon.
5. Click **Properties**.
6. Click the **About** tab.

HP Embedded Web Server (HP LaserJet M1120n MFP only)

The HP Embedded Web Server (HP EWS) is a Web-based application that allows users to control settings on the HP LaserJet M1120n MFP through a Web browser. To open the HP EWS, connect the device to the network, open a Web browser, and type the IP address for the device in the address bar.

 **NOTE:** If you have HP LaserJet M1120 MFP or if the HP LaserJet M1120n MFP is connected to the computer through the USB port, you do not have access to the HP EWS.

The following tabs are available in the HP EWS:

- [Information](#)
- [Settings](#)
- [Networking](#)

Information

Use the **Information** tab to access and print detailed information regarding device and supply status, device configuration, network configuration, and usage.

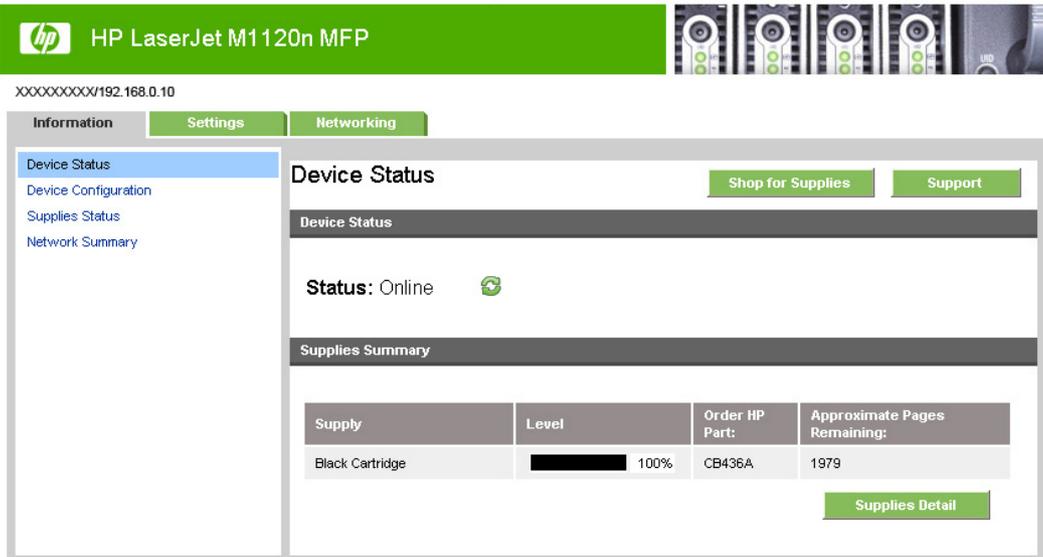
The **Status** tab contains the following pages:

- [Device Status](#)
- [Device Configuration](#)
- [Supplies Status](#)
- [Network Summary](#)

Device Status

The **Device Status** page shows device status messages. The **Device Status** page also shows some pertinent device information and device settings.

Figure 2-2 HP EWS – Device Status page



HP LaserJet M1120n MFP

XXXXXXXXX/192.168.0.10

Information Settings Networking

Device Status

Device Configuration

Supplies Status

Network Summary

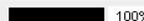
Device Status

Shop for Supplies Support

Device Status

Status: Online 

Supplies Summary

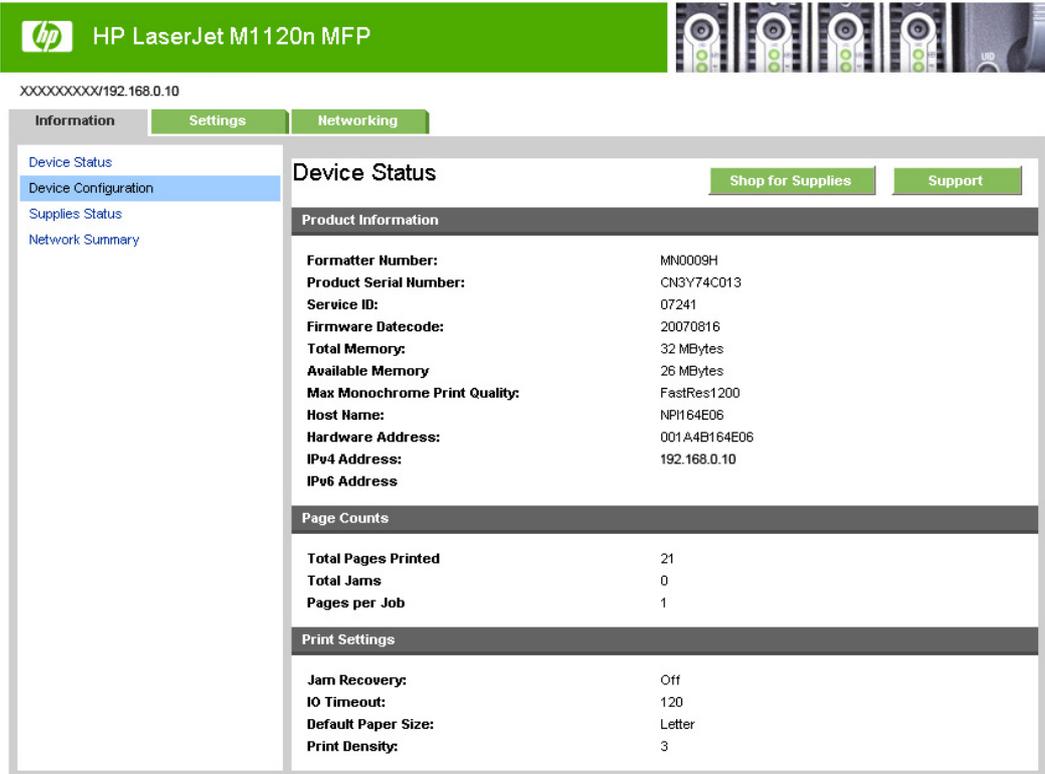
Supply	Level	Order HP Part:	Approximate Pages Remaining:
Black Cartridge	 100%	CB436A	1979

Supplies Detail

Device Configuration

The **Device Configuration** page shows the values of all of the settings that are available in the device. The contents of this page are consistent with the configuration page that the firmware generates.

Figure 2-3 HP EWS – Device Configuration page



XXXXXXXXXX/192.168.0.10

hp HP LaserJet M1120n MFP

Information Settings Networking

Device Status

Device Configuration

Supplies Status

Network Summary

Shop for Supplies Support

Device Status

Product Information	
Formatter Number:	MN0009H
Product Serial Number:	CN3Y74C013
Service ID:	07241
Firmware Datecode:	20070816
Total Memory:	32 MBytes
Available Memory:	26 MBytes
Max Monochrome Print Quality:	FastRes1200
Host Name:	NP1164E06
Hardware Address:	001.A4B164E06
IPv4 Address:	192.168.0.10
IPv6 Address:	

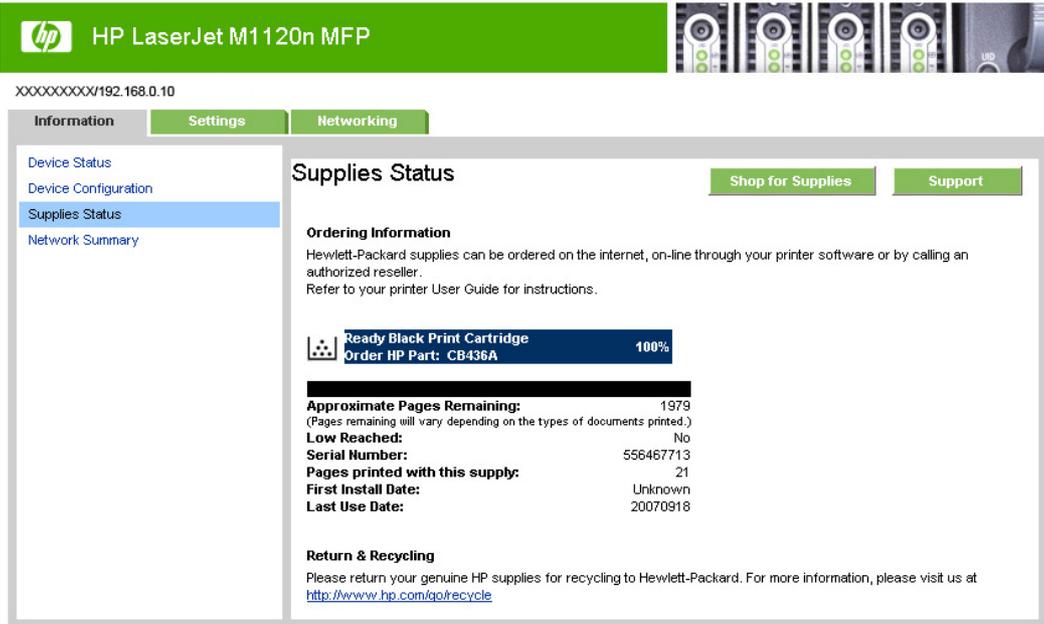
Page Counts	
Total Pages Printed	21
Total Jams	0
Pages per Job	1

Print Settings	
Jam Recovery:	Off
IO Timeout:	120
Default Paper Size:	Letter
Print Density:	3

Supplies Status

The **Supplies Status** page shows the status of all of the device supplies, including the print cartridges.

Figure 2-4 HP EWS – **Supplies Status** page



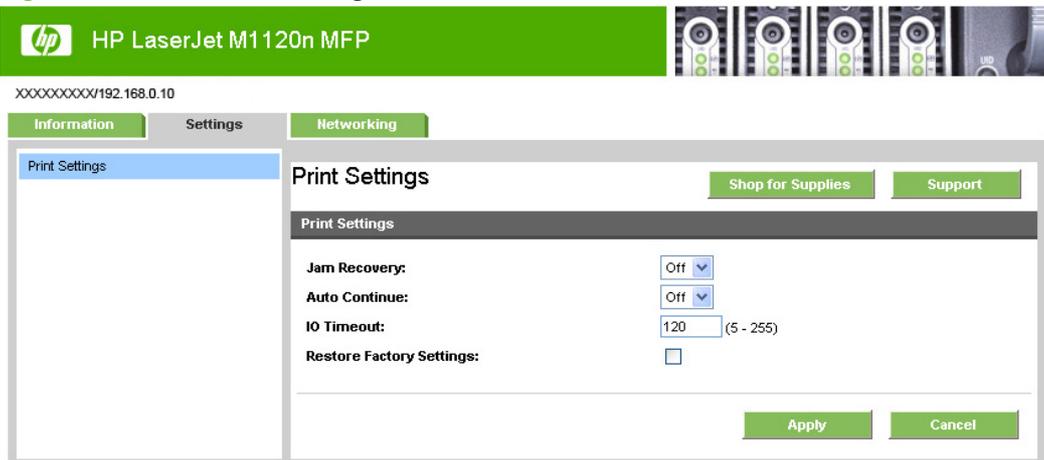
Network Summary

The **Network Summary** link opens the **Network Summary** page on the **Networking** tab.

Settings

Use the **Settings** tab to view and change print settings for the device.

Figure 2-5 HP EWS – **Settings** tab



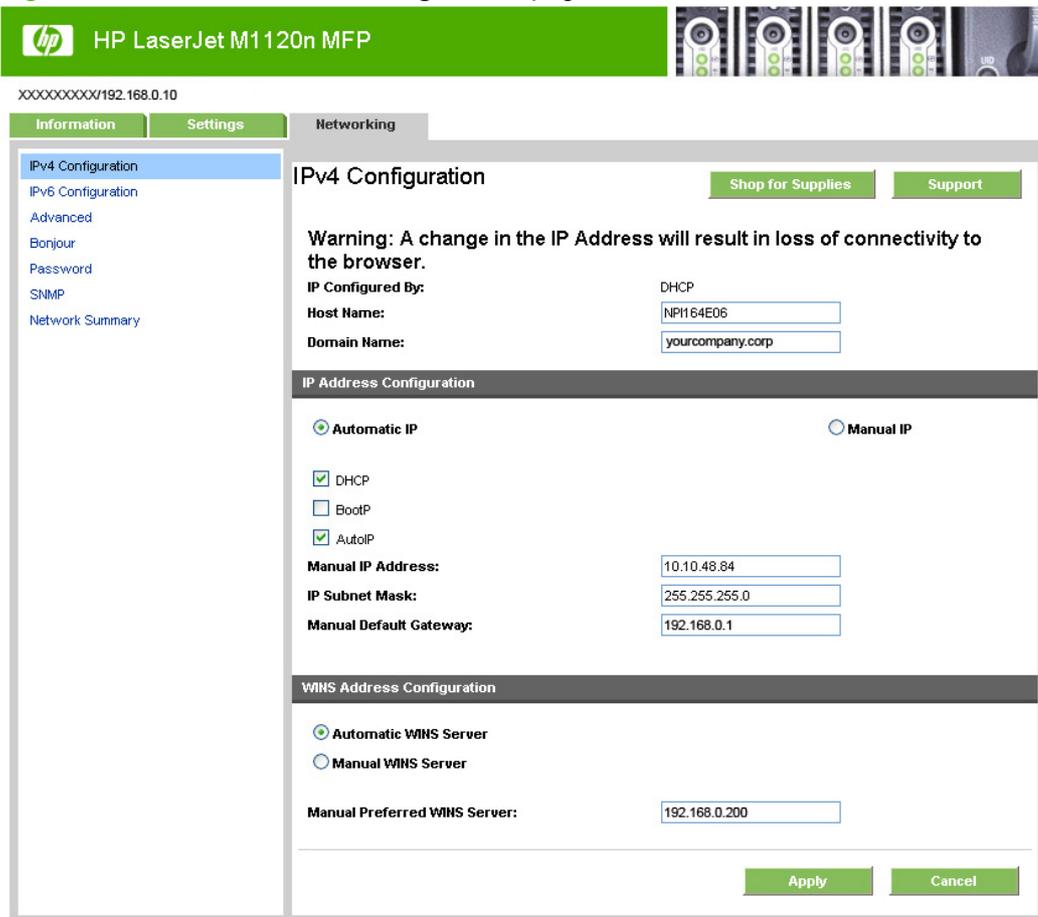
Networking

Use the **Networking** tab to view and change settings for the network connection and communication with the device. The following pages are available:

- [IPv4 Configuration](#)
- [IPv6 Configuration](#)
- [Advanced](#)
- [Bonjour](#)
- [Password](#)
- [SNMP](#)
- [Network Summary](#)

IPv4 Configuration

Figure 2-6 HP EWS – IP v4 Configuration page



XXXXXXXXXX192.168.0.10

Information Settings **Networking**

IPv4 Configuration IPv6 Configuration Advanced Bonjour Password SNMP Network Summary

HP LaserJet M1120n MFP

Shop for Supplies Support

Warning: A change in the IP Address will result in loss of connectivity to the browser.

IP Configured By: DHCP

Host Name: NP1164E06

Domain Name: yourcompany.corp

IP Address Configuration

Automatic IP Manual IP

DHCP BootP AutoIP

Manual IP Address: 10.10.48.84

IP Subnet Mask: 255.255.255.0

Manual Default Gateway: 192.168.0.1

WINS Address Configuration

Automatic WINS Server Manual WINS Server

Manual Preferred WINS Server: 192.168.0.200

Apply Cancel

IPv6 Configuration

Figure 2-7 HP EWS – IP v6 Configuration page

HP LaserJet M1120n MFP

XXXXXXXXX/192.168.0.10

Information Settings **Networking**

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

IPv6 Configuration

Shop for Supplies Support

IPv6 Enable

Host Name: NPI164E06

Address	Prefix Length
Link-Local	0
Stateless (from Router)	0
Stateful (from DHCPv6)	0

DHCPv6 Addressing Preferences

Perform when stateless configuration is unsuccessful

Always perform on startup

Apply Cancel

Advanced

Use the **Advanced** page to configure the enabled settings and other settings, such as link speed, for the device.

Figure 2-8 HP EWS – Advanced page

HP LaserJet M1120n MFP

XXXXXXXXX/192.168.0.10

Information Settings **Networking**

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

Advanced

Shop for Supplies Support

Enabled Features

LPD Printing

Other Settings

Link Settings: Automatic

Apply Cancel

Bonjour

Use the **Bonjour** page to enable or disable the Bonjour settings for the device.

Figure 2-9 HP EWS – **Bonjour** page

HP LaserJet M1120n MFP

XXXXXXXXXX/192.168.0.10

Information Settings **Networking**

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

Bonjour [Shop for Supplies](#) [Support](#)

Enable Bonjour

Bonjour Name: HP LaserJet M1120n MFP

Bonjour Domain Name: NP1164E06.local

[Apply](#) [Cancel](#)

Password

Use this page to set or change the administrator password.

Figure 2-10 HP EWS – **Password** page

HP LaserJet M1120n MFP

XXXXXXXXXX/192.168.0.10

Information Settings **Networking**

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

Password [Shop for Supplies](#) [Support](#)

Use these fields to set or change the Administrator Password. When set, the Administrator Password is required before you can access and change configuration parameters. To disable the Administrator Password, leave the entries blank.

User Name: Admin

Password: [password field]

Confirm Password: [password field]

[Apply](#) [Cancel](#)

SNMP

Use this page to configure the simple network management protocol (SNMP) settings for the device.

Figure 2-11 HP EWS – SNMP page

XXXXXXXXXX/192.168.0.10

Information Settings **Networking**

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

SNMP [Shop for Supplies](#) [Support](#)

Caution: Changing these settings can potentially disrupt network scanning, network faxing (if supported by your device), or other network functionality

Enable SNMP v1/v2 read-write access

Set Community Name:

Confirm Set Community Name:

Get Community Name:

Confirm Get Community Name:

Disable SNMP v1/v2 default Get Community Name of 'public'

Enable SNMP v1/v2 read-only access (uses 'public' for the Get Community Name)

Disable SNMP v1/v2

[Apply](#) [Cancel](#)

Network Summary

The **Network Summary** page contains information about the network and its enabled features.

Figure 2-12 HP EWS – **Network Summary** page

XXXXXXXXXX/192.168.0.10

Information Settings **Networking**

HP LaserJet M1120n MFP

IPv4 Configuration
IPv6 Configuration
Advanced
Bonjour
Password
SNMP
Network Summary

Network Summary

[Shop for Supplies](#) [Support](#)

Network Hardware Configuration

Hardware Address:	001A4B164E06
Firmware Datecode:	20070816
Link Settings:	Auto
Link Speed:	100TX Full
IO Timeout:	120

Enabled Features

Password	Not Specified
SLP Config	Enabled
DHCP	Enabled
BootP	Disabled
AutoIP	Enabled
Enable Bonjour	Enabled
SNMP	Enabled
LPD Printing	Enabled

TCP/IP(v4)

Host Name:	NP1164E06
Domain Name:	yourcompany.corp
IP Configured By:	DHCP
IPv4 Address:	10.10.48.84
IP Subnet Mask:	255.255.255.0
IP Default Gateway:	192.168.0.1
DHCP Server:	192.168.0.1
WINS Configured By:	DHCP
Preferred WINS Server:	192.168.0.0.12

TCP/IP(v6)

Link-Local
Stateless (from Router)
Stateful (from DHCPv6)

SNMP

Status	Read Write Access Enabled
SNMP Version	v1v2
Set Community Name	Not Specified (Defaults to public)
Get Community Name	Not Specified (Defaults to public)

Network Statistics

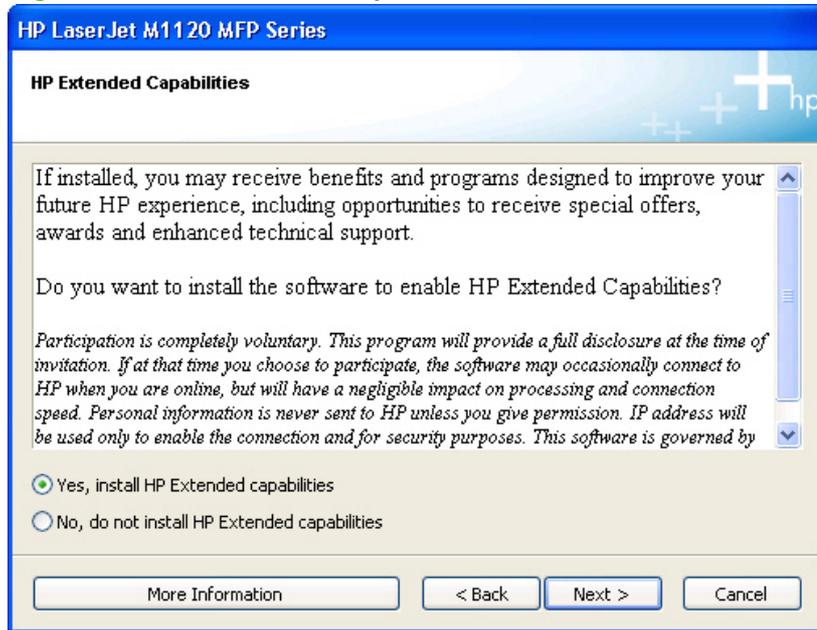
Total Packets Received:	288498
Unicast Packets Received:	5199
Broadcast Packets Received:	283299
Bad Packets Received:	0
Total Packets Transmitted:	12402
Unicast Packets Transmitted:	11630
Broadcast Packets Transmitted:	772
Bad Packets Transmitted:	75

HP Extended Capabilities

When installing the device, you have the option of participating in HP's voluntary program for communication between your system and HP. This feature, available through software that is included on the software CD, helps HP monitor toner usage.

If you select the option to participate, you receive an invitation about two weeks after installation. It contains full disclosure of the information to be communicated. Participation is entirely voluntary, and the impact on processing and connecting speed is negligible. Personal information is never sent to HP without permission. TCP/IP addresses are used only to enable the connection and for security purposes.

Figure 2-13 HP Extended Capabilities screen



If you decline the invitation, the dialog box does not appear again and no data is gathered.

HP Status Application

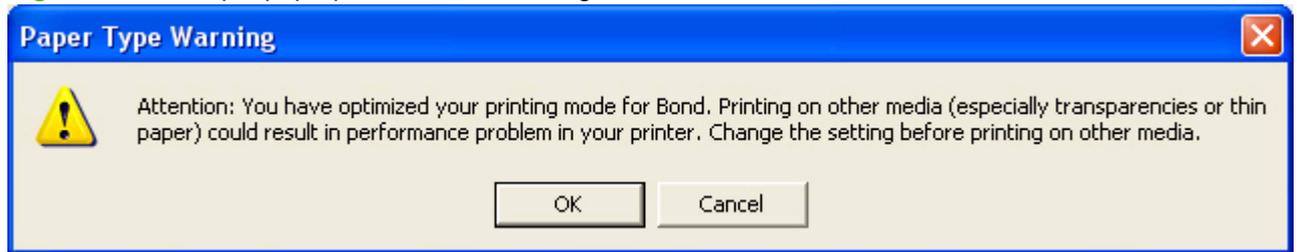
Status will be reported in two ways:

- In the standard MS Windows spooler
- By using the HP Status Application, which provides a more user-friendly method of viewing the status of the device and the print job

The HP Status Application relays device status through the input/output (I/O) communication interface.

The HP Status Application will provide pop-up error status messages from the time the printer driver is sending data to the device until the device has completed processing the print data. This includes printing all of the pages and the device going back to a ready state.

Figure 2-14 Sample pop-up error status message



Scanning software

Topics:

- [Scanning methods](#)
- [HP LaserJet Scan software](#)
- [Scan drivers](#)

Scanning methods

Scan from the HP LaserJet device by using any of the following methods.

- **From a computer.** Click **Start**, select **Programs**, select **HP**, select the name of the device, and then click **M1120 MFP Scan To**.
- **From a TWAIN- or WIA-compliant software program.** Check the Help system in the software program to learn how to scan from a TWAIN- or WIA-compliant scanner from within that program.
- **From the Camera and Scanner Wizard on Windows XP.** In MS Windows XP, click **Start**, click **Control Panel**, double-click **Scanners and Cameras**, and then double-click the HP LaserJet device scanner icon. The **Camera and Scanner Wizard** appears. Follow the onscreen directions to save your scanned item to a file.

HP LaserJet Scan software

Use the HP LaserJet Scan software to scan from the HP LaserJet device or to read from a file, and then complete any of the following tasks with the data:

- Save the scanned item to a file.
- Attach the scanned item to an e-mail.
- Open the scanned item with any third-party software program that supports the drag-and-drop function.
- Perform text recognition on the scanned item through Readiris (if Readiris text-recognition software is installed on the computer).

The HP LaserJet Scan software is set up to scan by default , but the **General** tab does provide an override to save a scanned item to a file. This is helpful both for testing when a scanner is not available and for converting existing files into some other output file type. The following file types are currently supported:

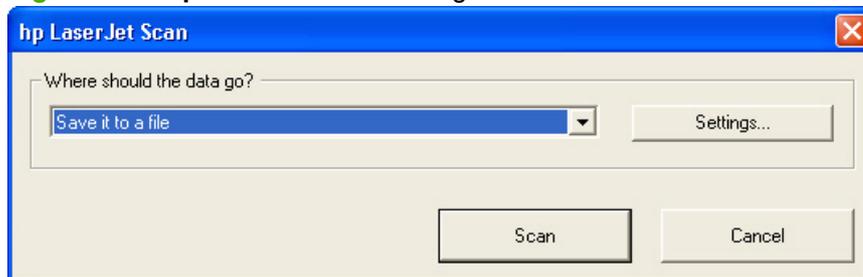
- .BMP
- .GIF
- .JPG
- .PDF
- .TIFF (both regular and compressed)

Readiris supports the following output file types:

- .BMP
- .DCA
- .DOC
- .DW
- .HTM
- .MM
- .PDF
- .RTF
- .TXT
- .WP
- .WPS
- .WS
- .WS2

The HP LaserJet Scan software is composed of a simple user interface that provides a **Where should the data go?** drop-down menu, a **Scan** button, a **Cancel** button, and a **Settings...** button.

Figure 2-15 hp LaserJet Scan dialog box

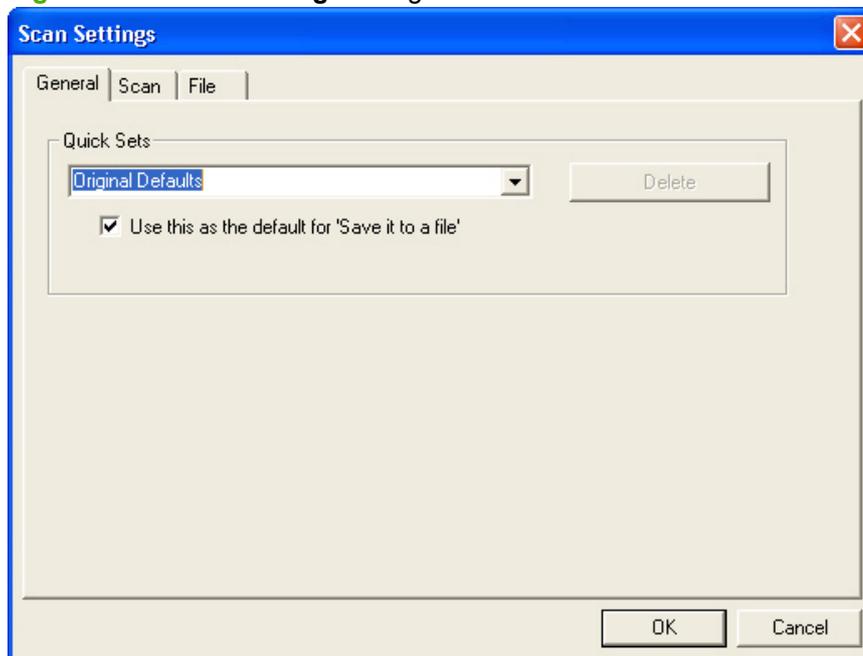


The **Where should the data go?** drop-down menu contains any user-defined **Quick Sets** and the following default destinations:

- **Save it to a file**
- **Send it through e-mail**
- **Send it to another software program**
- **Send it to the Readiris OCR software** (if Readiris software is installed)

Click **Settings...** to open a more detailed property dialog box called the **Scan Settings** dialog box, which contains options to change the scan settings. The tabs that are available in the **Scan Settings** dialog box depend on the destination that you select on the **Where should the data go?** drop-down menu. For example, the **E-mail** tab appears only if the selected destination is **Send it through e-mail**. **Quick Sets** are also available to store settings that are used on a regular basis.

Figure 2-16 Scan Settings dialog box



If you do not change any settings in the **Scan Settings** dialog box, the HP LaserJet Scan software prompts for any needed information, such as a filename if sending the scanned item to a file folder or an e-mail address if sending the scanned item in e-mail. If you specify an e-mail address in the **Scan Settings** dialog box before scanning the item, the e-mail is sent automatically without the new-message dialog box opening.

Because the **Scan Settings** dialog box contains only a limited set of variables, more functionality is available when using command-line arguments.

Every time the HP LaserJet Scan software is used, an HPPSCAN2.LOG file is generated within the current user's temporary directory. The HPPSCAN2.LOG file develops a log of operations and aids in troubleshooting problems.

Scanning to a file sends the scanned image to a MY SCANS directory in the MY DOCUMENTS folder.

- △ **CAUTION:** If you move the My Documents folder, the My Scans folder does not follow to the new location. It remains hard-coded to the current-user's home, and scan jobs continue to be stored there.

Selecting the third-party destination option saves the scanned image to a file of the specified file type. The HP LaserJet Scan software then starts the specified software program by appending the filename to the software filename. Because the HP LaserJet Scan software does not support automatic discovery of software programs, specify the correct software program and specify a file type that the program supports. The HP LaserJet Scan software opens when the filename is passed as a command-line argument.

E-mail

The HP LaserJet software for MS Windows supports only 32-bit messaging application programming interface-(MAPI-) compliant e-mail programs, and does *not* support Internet-based e-mail programs such as Hotmail or Yahoo. The following table lists some examples of supported e-mail programs.

Table 2-1 Supported e-mail programs

Program Name	MS Windows OS	Macintosh OS
Microsoft Entourage		Mac OS X
Microsoft Outlook	Yes; Outlook 97, Outlook 98, Outlook 2000, Outlook XP	Mac OS X
Microsoft Outlook Express	Yes	
Lotus Notes	Yes; V3.0 and later	

E-mail is always sent through the default e-mail client. To identify the default e-mail client in MS Windows XP (the path varies for other MS Windows operating systems), click **Start**, click **Settings**, click **Control Panel**, click **Network and Internet Options**, click **Internet Options**, click the **Programs** tab, and look at the **E-mail** setting.

Sending a scan to e-mail generally uses the simple MAPI protocol. If the e-mail address is added before scanning, extended MAPI can be used to avoid security messages while the program tries to send the e-mail automatically. Setting a MapiLevel registry key forces the scan program to always use either simple or extended MAPI. This might be required if scanning to e-mail fails even when the default e-mail client is set up correctly.

Scan drivers

The HP LaserJet M1120 MFP Series software includes the following integrated scan drivers.

- TWAIN driver
- Windows Image Acquisition (WIA) driver

TWAIN driver

The HP LaserJet M1120 MFP Series software includes a TWAIN driver user interface that provides great flexibility and a wide range of image-quality options. TWAIN is an industry standard scanning protocol. Initiate scans from the HP LaserJet device by using any TWAIN-compliant program.

TWAIN compatibility

TWAIN-compliant programs acquire documents directly from the HP LaserJet device. Programs that follow the TWAIN standards should work.

 **NOTE:** HP LaserJet devices support the required core functions for TWAIN compliance, but have only limited support for extended TWAIN options.

TWAIN scanning does not work with some programs

For programs that are not TWAIN-compliant, use the following process as a workaround.

1. Use the HP LaserJet Scan software to scan the document, in .TIFF format (or any other file type that the software supports), into a folder.
2. Import the .TIFF file into the program.

Additional information about TWAIN

For more information about TWAIN, visit the following Web site:

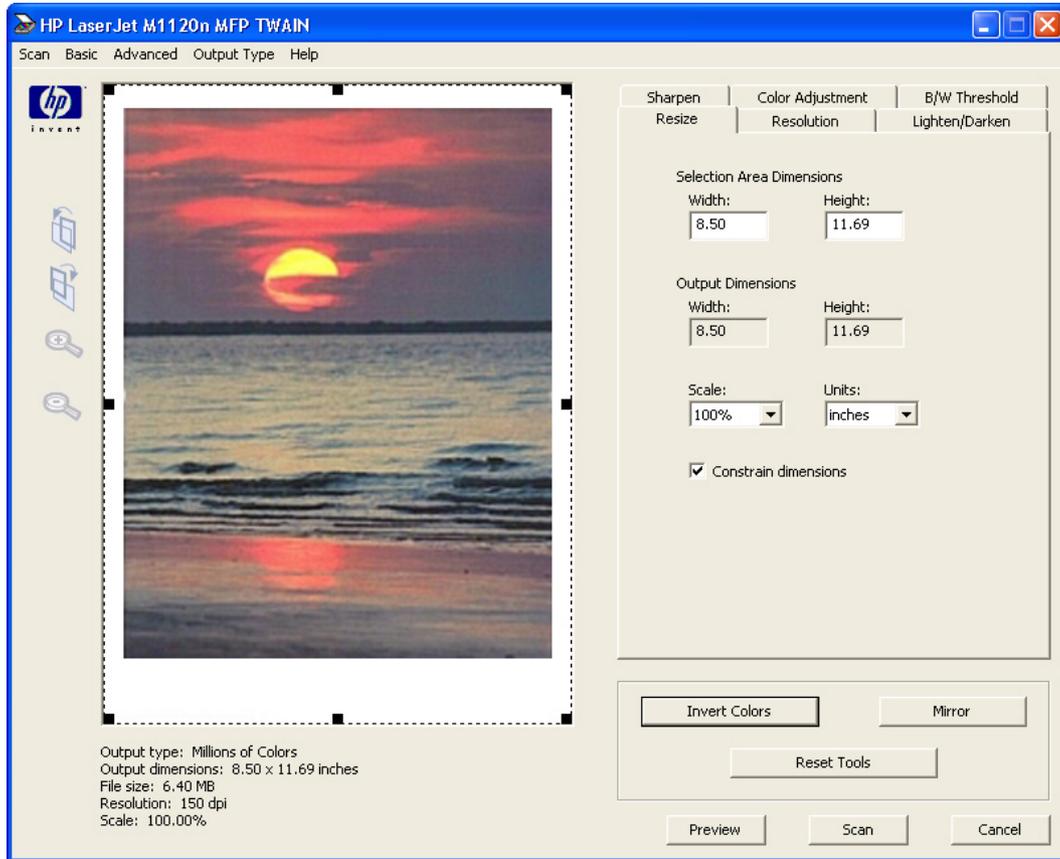
TWAIN driver user interface (MS Windows)

To scan a page:

1. Place the page to be scanned on the flatbed scanner.
2. Click **Start**, select **Programs** or **All Programs**, select **HP**, and then click **HP LaserJet M1120 MFP**.
3. Select and click **M1120 MFP Scan To**.
4. In the **Where should the data go?** drop-down menu, select the desired destination for the scanned image, and then click **Scan**.

The HP LaserJet M1120 MFP Series scans a preview image of the page on the flatbed scanner and the TWAIN driver user interface appears with the preview scan image.

Figure 2-17 TWAIN driver user interface (MS Windows)



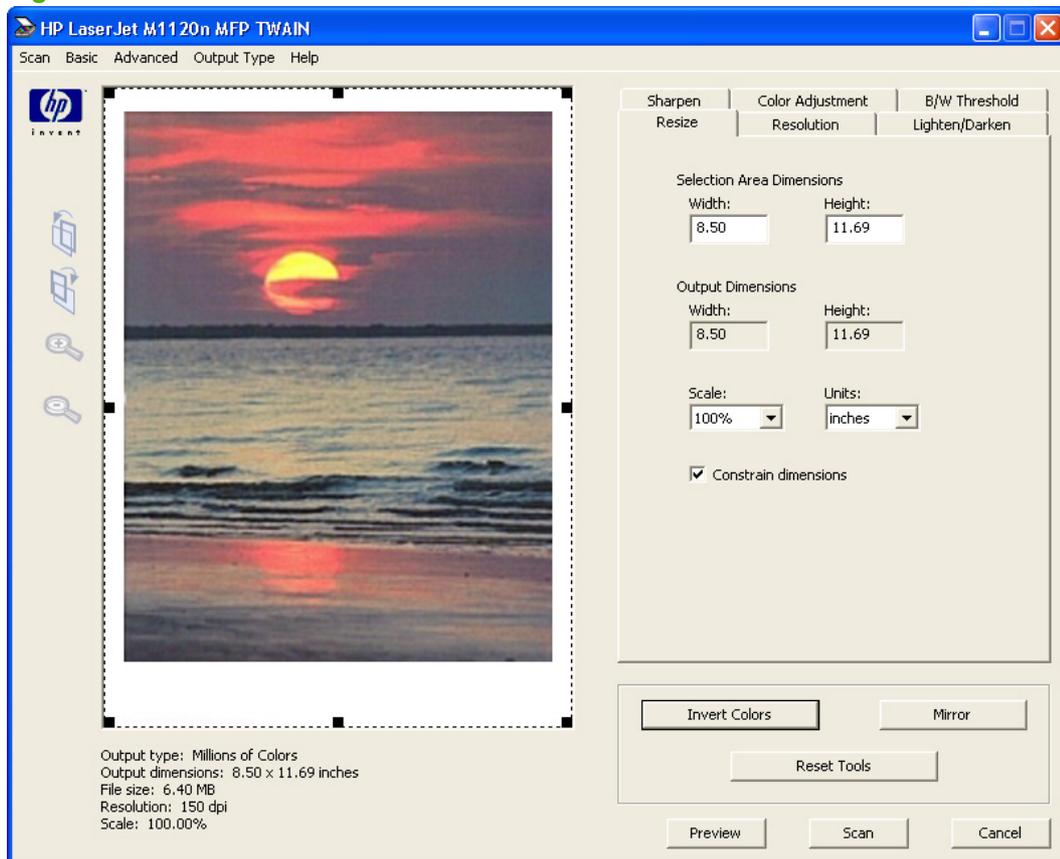
The TWAIN driver user interface contains the following drop-down menus, options, tabs, and buttons:

 **NOTE:** Many of the options in the drop-down menus control the same features that are available by using the TWAIN user interface tabs and buttons.

- **Scan.** This drop-down menu contains the following options:
 - **New Scan.** Use this option to rescan the image. Flatbed previews are always at 75 dpi and in color.
 - **Accept.** Use this option to rescan the image if the original is on a flatbed scanner and then send the image back to a program with the specified settings.
 - **Exit.** Use this option to exit the HP LaserJet Scan software.
- **Basic.** This drop-down menu contains the following options:
 - **Rotate.** Use this option to rotate the scanned image 90° to the left or 90° to the right.
 - **Zoom.** Use this option to zoom in or out on the selected area of the scan. This automatically starts a rescan if one is needed to obtain a clear image.
 - **Resize.** Use this option to change the selection area for final scan. The final scan is performed within this selection area.
 - **Lighten/Darken.** Use this option to lighten or darken the scanned image.
 - **Reset Tools.** Use this option to reset all the controls to their default values.
- **Advanced.** This drop-down menu contains the following options:
 - **Resolution.** Use this option to designate the final resolution for the image. The software interpolates resolutions that are above 1200 dpi.
 - **B/W Threshold.** Use this option to adjust the black and white threshold, and to specify which color channel is used for the scan.
 - **Mirror.** Use this option to flip the scanned image horizontally.
 - **Invert Colors.** Use this option to invert the colors in the scanned image.
 - **Color Adjustment.** Use option tab to adjust the color on the scanned image.
- **Output Type.** This drop-down menu contains the following options:
 - **Millions of Colors** (default)
 - **256 Colors** (8 bit)
 - **256 Colors** (web palette)
 - **256 Colors** (system palette)
 - **256 Gray Shades**
 - **Black White** (1 bit)

- **Help.** This drop-down menu contains links to the following help documents:
 - **User's Manual**
 - **HP Photo Imaging Help**
 - **About HP Scanning**
- **Resize.** Use this tab to control the selection area for the final scan. The final scan is performed within this selection area.

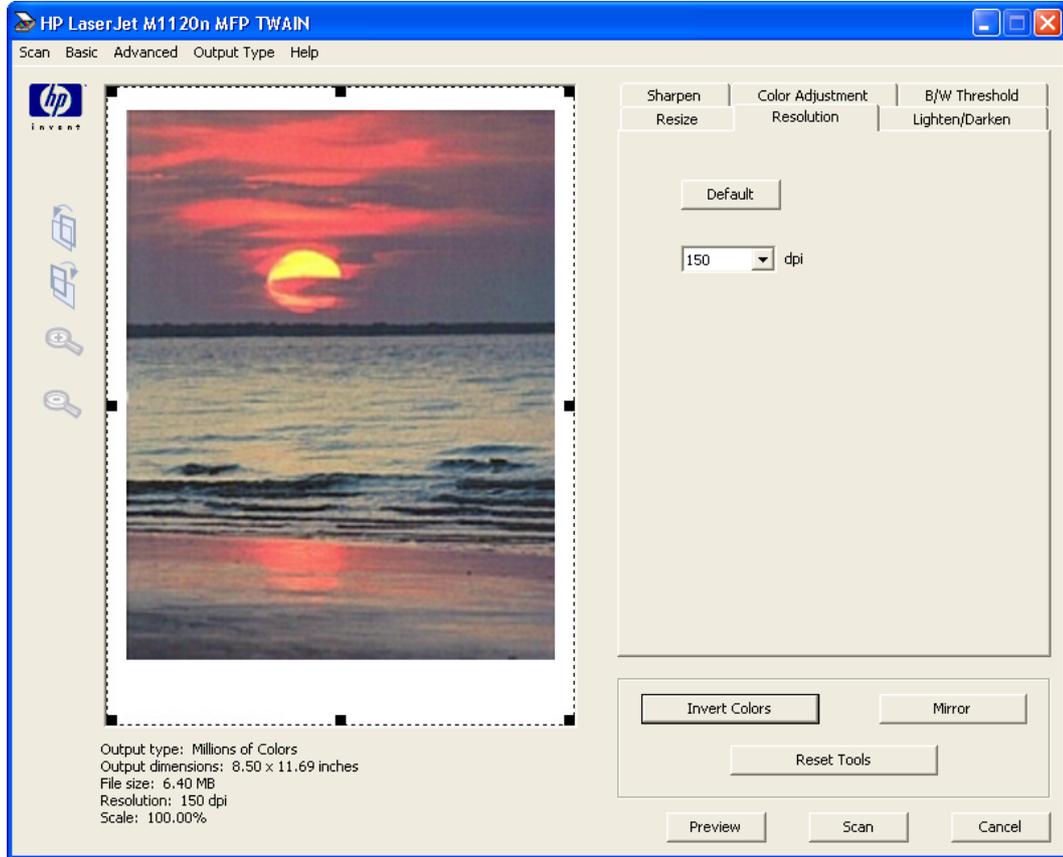
Figure 2-18 TWAIN driver user interface – **Resize**



- **Resolution.** Use this tab to designate the resolution for the final scan. The software interpolates resolutions that are above 1200 dpi.

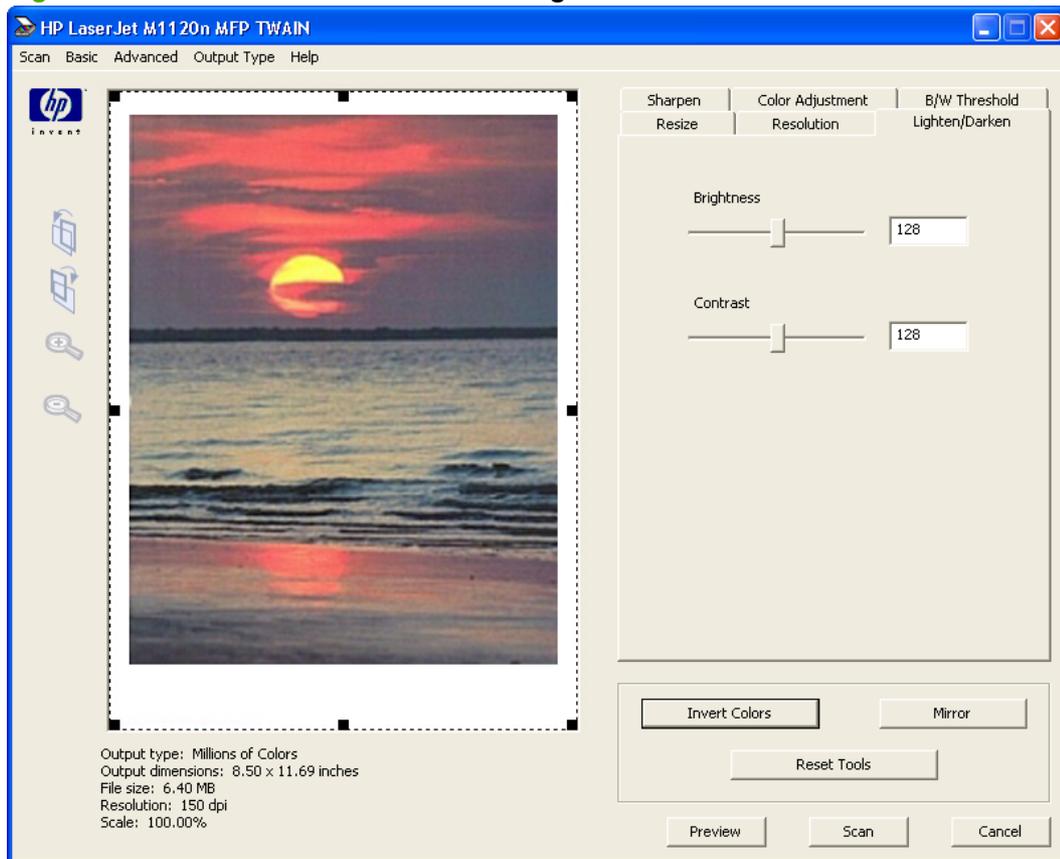
 **NOTE:** Scans that are above 1200 dpi can take a long time to complete and can consume large amounts of memory.

Figure 2-19 TWAIN driver user interface – **Resolution**



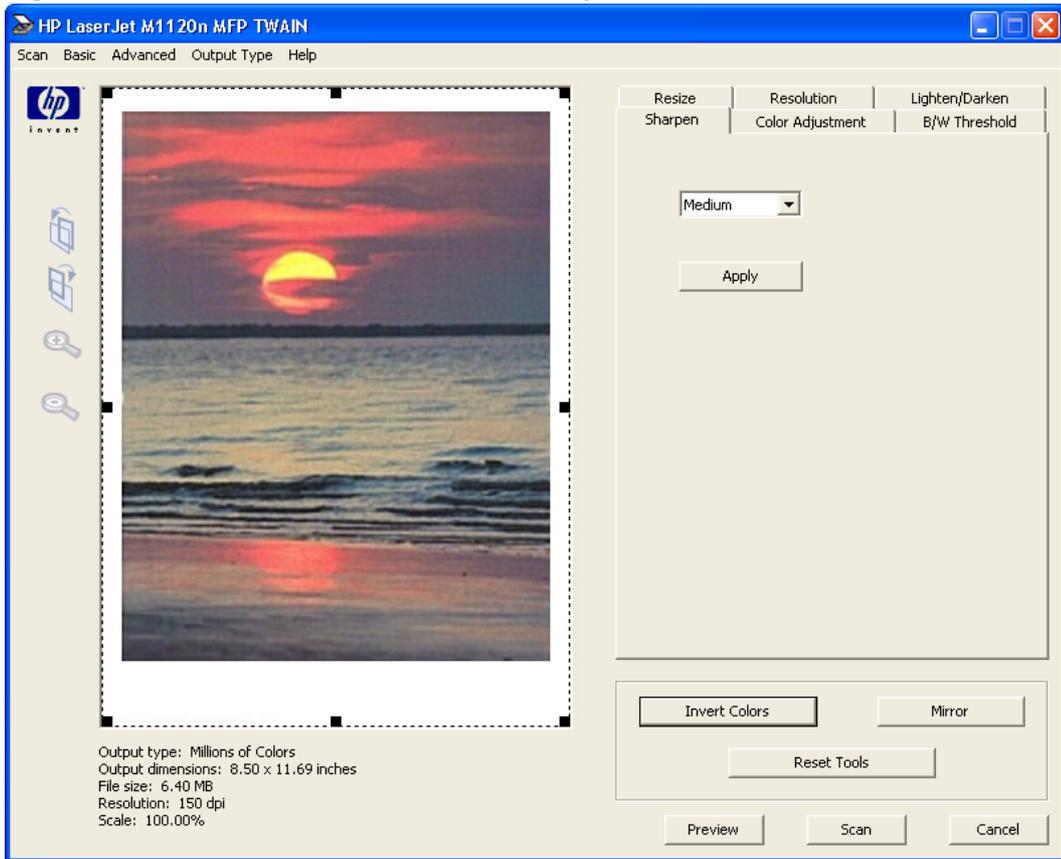
- **Lighten/Darken.** Use this tab to lighten or darken the final scan.

Figure 2-20 TWAIN driver user interface – Lighten/Darken



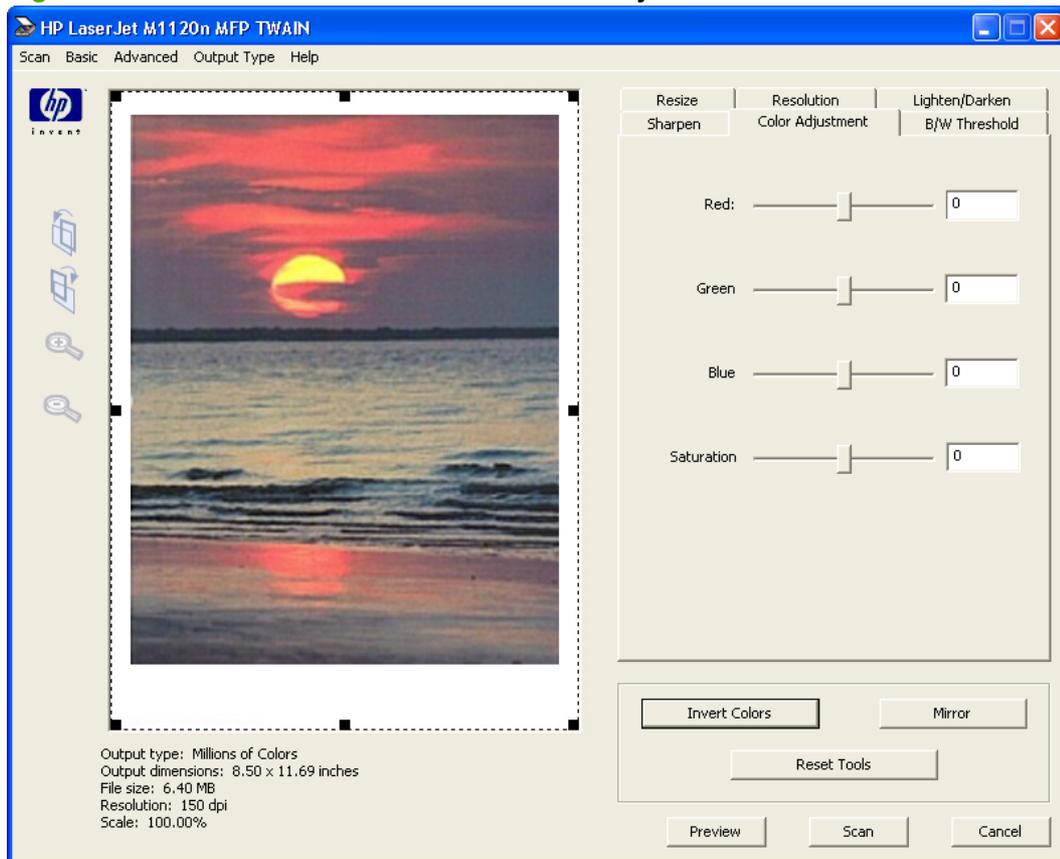
- **Sharpen.** Use this tab to control the sharpness of the final scan.

Figure 2-21 TWAIN driver user interface – **Sharpen**



- **Color Adjustment.** Use this tab to adjust the color on the final scan.

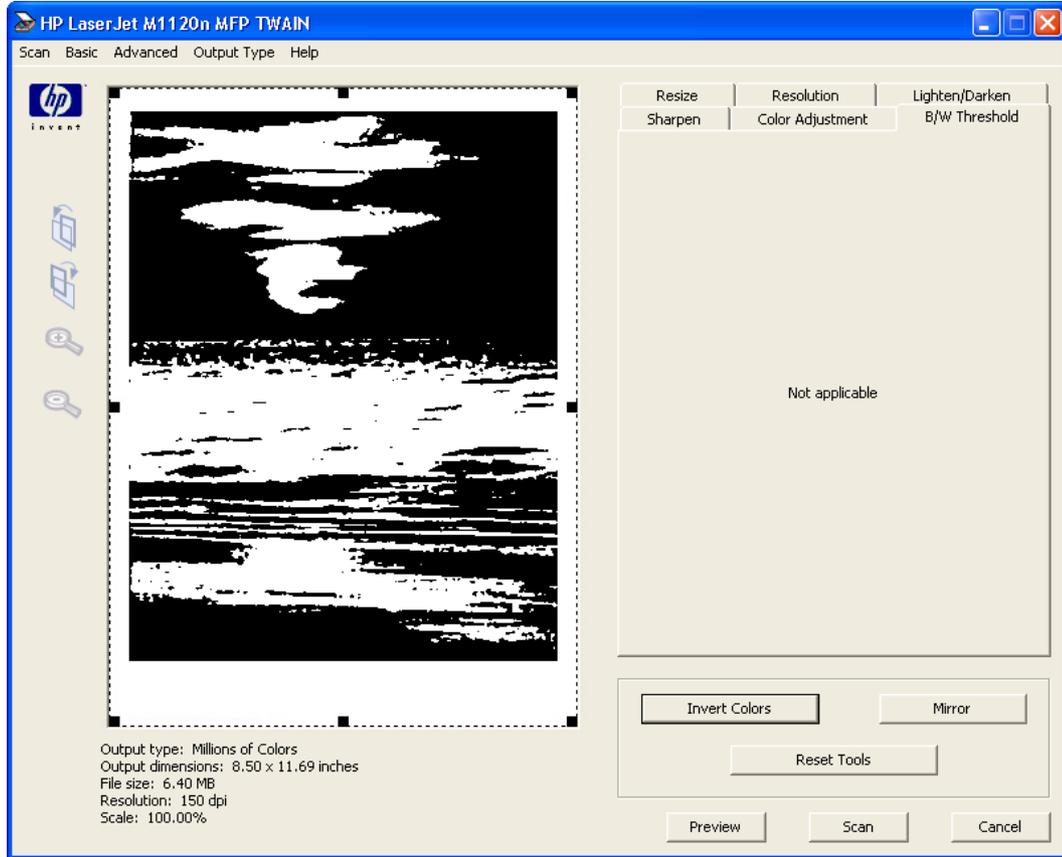
Figure 2-22 TWAIN driver user interface – **Color Adjustment**



- **B/W Threshold.** Use this tab to adjust the black and white threshold, and to specify which color channel is used for the final scan.

 **NOTE:** Select **Black White (1 bit)** in the **Output Type** drop-down menu to enable the control on this tab.

Figure 2-23 TWAIN driver user interface – B/W Threshold



- **Invert Colors.** Use this button to invert the colors in the scanned image.
- **Mirror.** Use this button to flip the scanned image horizontally.
- **Preview.** Use this button to rescan the preview image.
- **Scan.** Use this button to complete the final scan with the selected output settings.
- **Cancel.** Use this button to cancel the scan.

WIA driver

In MS Windows XP, you can access the Windows Image Acquisition (WIA) driver directly or by using the MS Windows Scanner and Camera Wizard.

Access the WIA driver using the MS Windows Scanner and Camera Wizard

1. Right-click on the scanner icon in the **My Computer** folder and click **Scan**. Select **Microsoft Scanner and Camera Wizard**, and then click **OK**.

-or-

Right-click on the scanner icon in the **My Computer** folder and click **Scanner Wizard**.

-or-

Right-click on the scanner icon in the **Scanners and Cameras** folder in the **Control Panel** and click **Scan**. Select **Microsoft Scanner and Camera Wizard**, and then click **OK**.

-or-

Right-click on the scanner icon in the **Scanners and Cameras** folder in the **Control Panel** and click **Scanner Wizard**.

2. The **Welcome to the Scanner and Camera Wizard** dialog box appears.

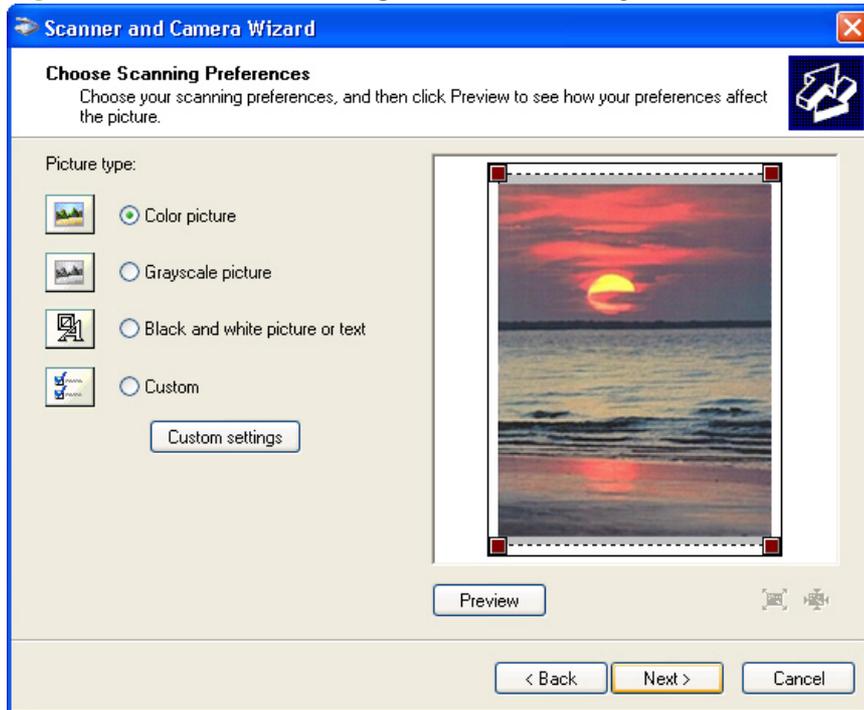
Figure 2-24 Welcome to the Scanner and Camera Wizard dialog box



Click **Next** to continue.

3. The **Choose Scanning Preferences** dialog box appears.

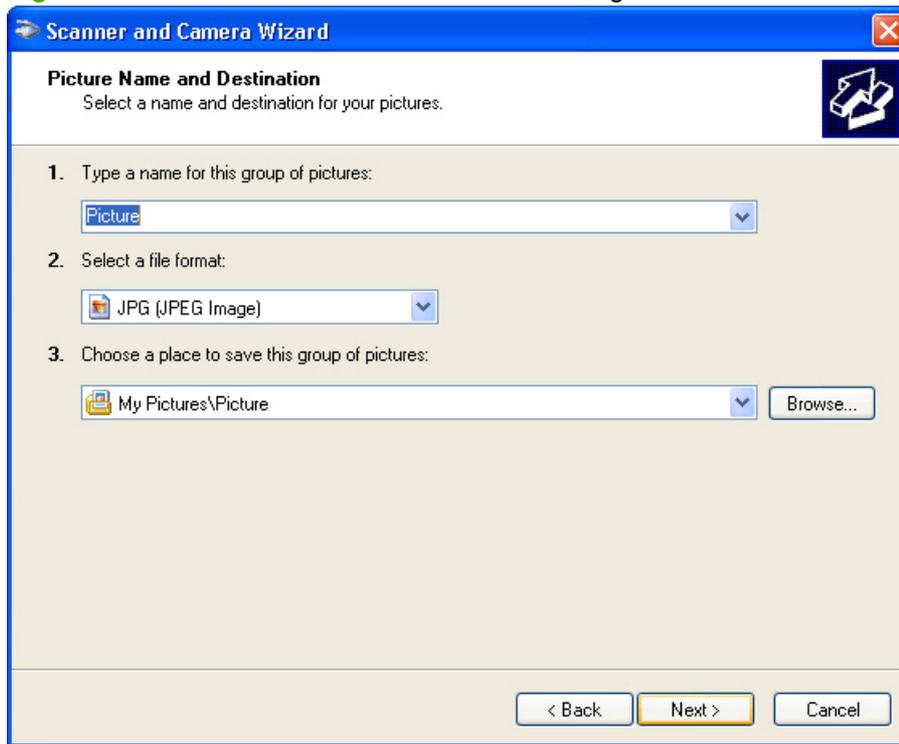
Figure 2-25 Choose Scanning Preferences dialog box



Use this dialog box to choose your picture type and to set custom settings for each type. Click **Preview** to see your picture before it is scanned. Click **Next** to continue.

4. The **Picture Name and Destination** dialog box appears.

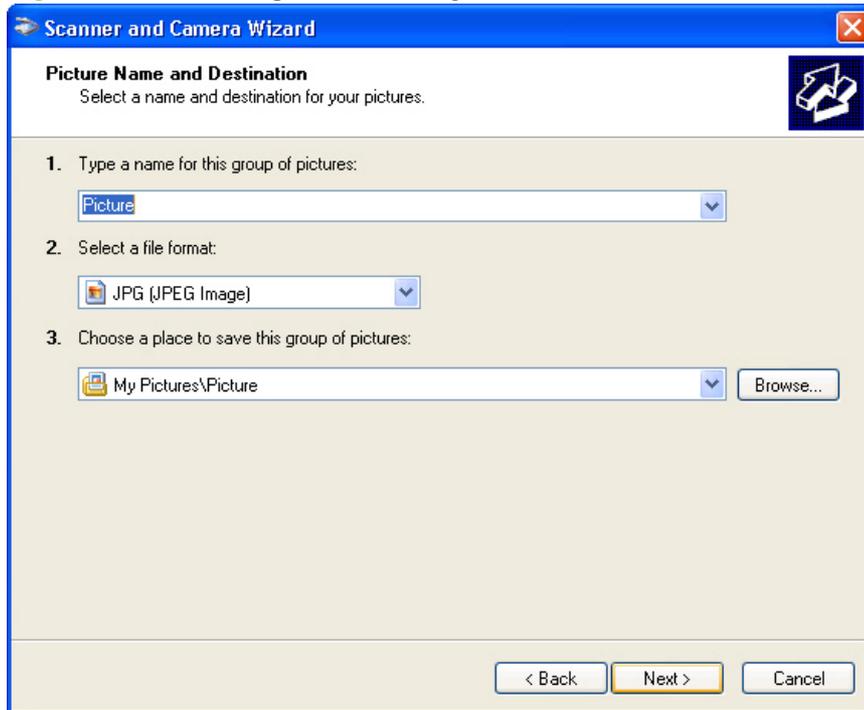
Figure 2-26 Picture Name and Destination dialog box



Add a name, select a file format, and choose a destination for your scanned image on this dialog box, then click **Next** to continue.

5. The **Scanning Picture** dialog box appears.

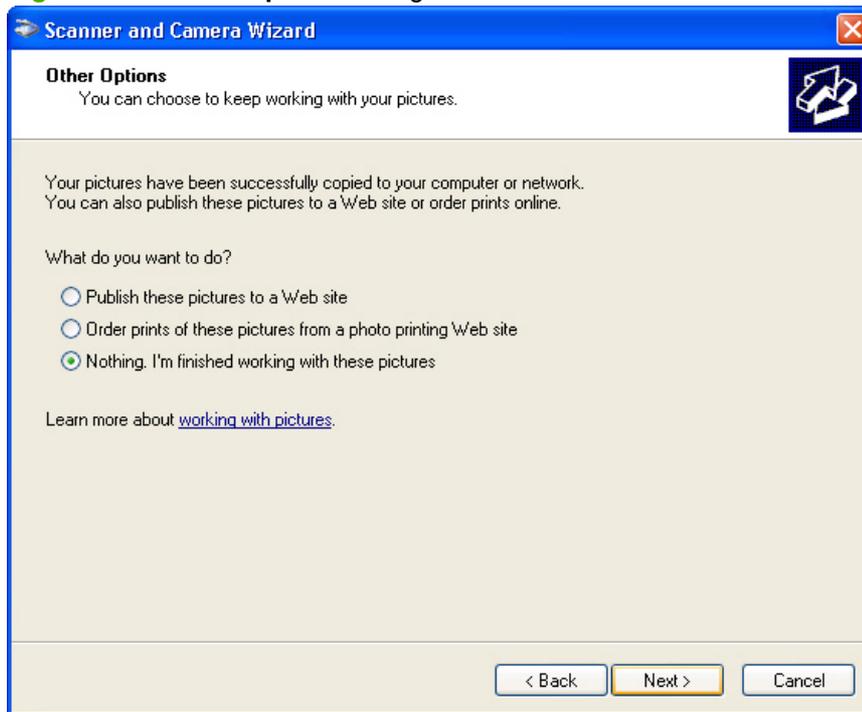
Figure 2-27 Scanning Picture dialog box



After the scan is finished, click **Next** to continue.

6. The **Other Options** dialog box appears.

Figure 2-28 Other Options dialog box



Select either of the first two options and click **Next** to get help performing those tasks. Select **Nothing. I'm finished working with these pictures.** and click **Next** to continue.

7. The **Completing the Scanner and Camera Wizard** dialog box appears.

Figure 2-29 Completing the Scanner and Camera Wizard dialog box



Click **Finish** to complete the wizard.

Access the WIA driver directly using a WIA-compliant software program

WIA has its own user interface. It is relatively simple and does not contain the wide range of image-quality options that are available in the TWAIN driver user interface.

 **NOTE:** Some software programs, such as Microsoft Word, have their own software interface that runs on top of the WIA driver. In these cases, the software interface will look and behave differently the process that is described here.

1. Open a WIA-compliant software program, such as Microsoft Paint.
2. Click **File**, and then click **From scanner or camera**.

 **NOTE:** Note that some software programs might use other commands for this function, such as **Acquire**.

3. The **Select Device** dialog box appears.

Figure 2-30 Select Device dialog box



4. Click the device name, and then click **Properties** to make adjustments to the scan settings. Click **Next** to continue.
5. The **Scan using (device name)** dialog box appears.

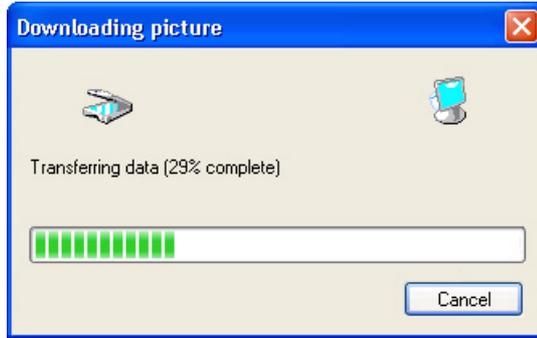
Figure 2-31 Scan using (device name) dialog box



Select the type of item you want to scan, and then click **Preview**. Click **Scan** to continue.

6. The **Downloading picture** dialog box appears.

Figure 2-32 Downloading picture dialog box



7. After the scan is completed, the scanned document appears in the main MS Paint work area.

When using the WIA scan driver, modify the brightness and contrast after the scan. Contrast or brightness modifications cannot be set on the device. Only native device resolutions are supported, and software interpolation is not performed. The WIA scan driver supports the following compression types:

- None
- .JPG
- .GIF
- .TIFF

Optional software

This section describes third-party software programs that the device supports.

Text-recognition software

The device software has an integrated text-recognition feature. This feature is also known as optical character recognition, or OCR. Text-recognition is also available through the third-party software program Readiris, which is included on a separate CD that comes with the device.

About text-recognition reliability

Text-recognition software turns an image into computer-editable text by analyzing the image and defining the characters. The accuracy obtained through text-recognition software depends on the quality, size, and structure of the original document, and on the quality of the scan itself. To obtain the best possible results when using text-recognition software, use the following guidelines:

- Scan directly from the text-recognition software.
- Process only pages that contain 9-point text or larger.
- Limit pages that contain underlining, forms, graphics, rotated text, photographs, and handwriting.
- Scan images squarely.
- Make sure that the pages are free of extraneous marks.
- Maximize the scanning resolution. Use a minimum of 300 dpi.
- Process only pages that have crisp, clear text. Letters that have gaps, that "bleed" along their edges, or that touch other letters do not work well. Text that is aligned closely to nontext items, such as graphics, might also degrade text-recognition results.
- Fine-tune the amount of black and white on scanned images. See the user guide for information.
- Avoid scanning from thin paper that has information printed on the back side. The information on the back can bleed through.

Even when following these recommendations, less-than-perfect image results can occur. This is because text-recognition technology is evolving and is still less than perfect.

Readiris text-recognition software

The Readiris Professional V11.0 text-recognition software by IRIS converts scanned images into text that can be edited in word-processing programs.



NOTE: The Readiris CD is not set up at fulfillment. The CD is available from Global Support Organization (GSO) or HP Parts in accordance with contractual and licensing agreements.

The Readiris user interface is available in the following languages:

- Dutch
- English
- French
- German

- Italian
- Korean
- Portuguese-Brazilian
- Simplified Chinese
- Spanish

 **NOTE:** Readiris can perform text recognition (also known as optical character recognition, or OCR) in 124 languages.

Readiris Professional V11.0 supports text recognition in 2-byte Asian characters. Set the operating system to display 2-byte characters in order to see the text.

 **NOTE:** For better text-recognition scanning results, start Readiris and scan directly into the program. Readiris Professional V11.0 automatically starts a wizard to guide this process.

When Readiris is installed on the computer, it appears as an option in the destination dropdown box in the HP Scan software. Select Readiris as the destination to scan the image into .TIFF format. Readiris automatically starts the text-recognition process.

The Readiris software uses a separate installer that comes on a separate CD. The initial release of the HP LaserJet M1120 MFP Series includes Readiris Professional (V11.0 for MS Windows, V11.5 for Macintosh) software.

3 Install MS Windows software components

 **NOTE:** This chapter covers information about installing the HP LaserJet M1120 MFP Series software for MS Windows.

Topics:

- [Installation overview](#)
- [Installation options](#)
- [Detailed MS Windows installation instructions](#)
- [User uninstall](#)

Installation overview

The software for the HP LaserJet M1120 MFP Series comes on a single CD. On computers running MS Windows Vista, MS Windows Server 2003, MS Windows XP, and MS Windows 2000, the SETUP.EXE file installs the HP LaserJet M1120 MFP Series software from the CD onto the hard disk and updates MS Windows files.

For all of the supported operating systems, the Installer guides the installation process as you provide information about the computer environment.

Installation options

The HP LaserJet M1120 MFP Series software can be used with the HP LaserJet M1120 MFP in the following configurations:

- Install the HP LaserJet M1120 MFP Series software on a computer that is directly connected to the device through a USB port and is running MS Windows Vista, MS Windows Server 2003, MS Windows XP, and MS Windows 2000.
- Install the HP LaserJet M1120 MFP Series software on a computer that has access to a local area network (LAN) to which the HP LaserJet M1120n MFP is also connected, and is running MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000. The HP LaserJet M1120n MFP has onboard networking that connects to a LAN through a 10/100Base-T (RJ-45) port.
- Install the HP LaserJet M1120 MFP Series software on a computer that is directly connected to the device through a USB port and is running MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000. Then share the HP LaserJet M1120 MFP with other users on the network by using MS Windows sharing.

 **NOTE:** Scanning functions cannot be shared.

Microsoft Windows installation for direct connections

Use the following instructions to install the device software on a computer that is running MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000.

 **NOTE:** Set up and turn on the HP LaserJet M1120 Series MFP before installing the software. Do *not* connect the HP LaserJet M1120 Series MFP to the computer until the prompt appears.

You must have administrator privileges to install the software on MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000.

1. Quit all open programs.
2. Insert the HP LaserJet M1120 MFP Series software CD into the CD-ROM drive.

 **NOTE:** If the CD does not start automatically, click **Start**, click **Run**, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

3. Follow the onscreen prompts to install the software.
4. When the installation is nearly complete, the **Setup Complete!** dialog box appears. Click **Finish** to finish the installation and print a test page.
5. If prompted to restart the computer, click **Yes**.

Microsoft Windows installation for computers on a network

Each computer that has the HP LaserJet M1120 MFP Series software installed has access to all of the product features over a network connection. This access is available through onboard networking that comes standard on the HP LaserJet M1120n MFP.

 **NOTE:** Networking is not available on the HP LaserJet M1120 MFP.

Follow these steps to install the HP LaserJet M1120 MFP Series software on networked computers running MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000.

1. Quit all open programs.
2. Insert the HP LaserJet M1120 MFP Series software CD into the CD-ROM drive.

 **NOTE:** If the CD does not start automatically, click **Start**, click **Run**, and then browse to and double-click the SETUP.EXE file in the root directory of the CD.

3. Follow the onscreen prompts to install the software.
4. When the Installer software prompts you to select how the printer will be connected, select **Connect via the network**, and then click **Next**. Follow the instructions on the screen.
5. When the installation is completed, a setup dialog box appears that asks whether or not you want to print a test page. Click **Yes**.
6. If you are prompted to restart the computer, click **Yes**.

Set up Microsoft Windows Sharing (peer-to-peer networking)

This section contains instructions for using MS Windows Sharing to make the device available to network users when the device is directly connected to a computer.

- 
- NOTE:**
- This STR outlines the procedures for sharing a device through MS Windows Sharing (peer-to-peer networking). If these procedures are not successful, contact Microsoft at the following Web site:
- www.microsoft.com
- . Because it is a function of Microsoft operating systems and not of the HP printer drivers, HP does not support peer-to-peer networking.
-

In MS Windows-sharing, the person who uses the computer that is directly connected to the device can allow other users on the network to print to the HP LaserJet M1120 MFP Series product.

When the HP LaserJet M1120 MFP is shared, install the print driver on all of the computers that can print to the HP LaserJet M1120 MFP.

- 
- NOTE:**
- Scanning functions cannot be shared.

NOTE: The host computer must be turned on for the shared clients to print to the HP LaserJet M1120 MFP.

Set up the MS Windows 2000 host computer

At the computer that is directly connected to the HP LaserJet M1120 MFP, perform the following steps:

1. Click **Start**, click **Settings**, and then click **Printers**.
2. In the device list, right-click the icon for the HP LaserJet M1120 MFP, and then click **Sharing**.
3. On the **Sharing** tab, click the **Share As** option button, and then type a name for the HP LaserJet M1120 MFP in the **Share Name** field. Click **OK**.

- 
- NOTE:**
- The device
- Share Name**
- is limited to 8 characters.
-

Set up the MS Windows Server 2003 or MS Windows XP host computer

At the computer that is directly connected to the HP LaserJet M1120 MFP, perform the following steps:

1. Click **Start** and then click **Printers and Faxes**.
2. In the device list, right-click the icon for the HP LaserJet M1120 MFP and then click **Sharing**.
3. On the **Sharing** tab, click the **Share this printer** option button and type a name for the HP LaserJet M1120 MFP in the **Share Name** field. Click **OK**.

 **NOTE:** The device **Share Name** is limited to 8 characters.

4. Click the **Ports** tab. Click to clear the **Enable bidirectional support** check box, and then click **OK**.

Set up the client computers

When the host computer is set up to share the HP LaserJet M1120 MFP, also configure the client computers. Perform the following steps at all the other network computers that will use the HP LaserJet M1120 MFP.

Set up MS Windows 2000 client computers

1. Click **Start**, click **Settings**, and then click **Printers**.
2. Double-click the **Add Printer** icon to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **Network Printer** option button, and then click **Next**.
5. Type the path and share name of the HP LaserJet M1120 MFP to connect to or click **Browse** and navigate to it.
6. Click **Next**.
7. Click **Yes** or **No** when asked if you want to use this device as your default printer for MS Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.

 **NOTE:** You might need the software CD to complete the print-driver installations.

Set up MS Windows Server 2003 or MS Windows XP client computers

1. Click **Start** and then click **Printers and Faxes**.
2. In the column to the left, under **Printer Tasks**, click **Add a printer** to open the **Add Printer** wizard.
3. Click **Next** to start the wizard.
4. Click the **A network printer or a printer attached to another computer** option button, and then click **Next**.
5. Type the path and share name of the HP LaserJet M1120 MFP to connect to or click **Browse** and navigate to it.
6. Click **Next**.

7. Click **Yes** or **No** when asked if you want to use this device as your default printer for MS Windows-based programs, and then click **Next**.
8. Click **Finish** to complete the installation and close the **Add Printer** wizard.

Detailed MS Windows installation instructions

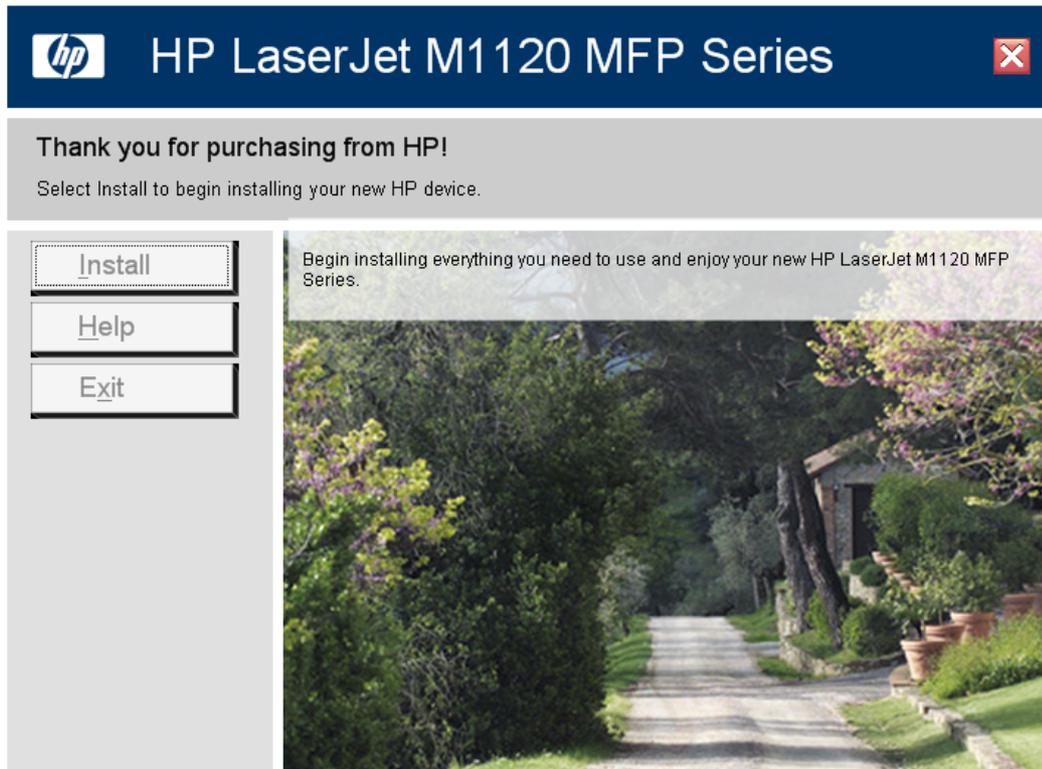
The following section shows the dialog box options that appear during the HP LaserJet M1120 MFP Series software installation on MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000 operating systems.

 **NOTE:** HP recommends that you install the software before connecting the HP LaserJet M1120 MFP to the computer (software-first installation). These instructions are for a software-first installation.

Use these instructions the first time that you install the HP LaserJet M1120 MFP software.

1. To begin the installation, insert the software CD into the CD-ROM drive and then click **Install** on the main screen of the CD Browser.

Figure 3-1 Step 1 - CD Browser window



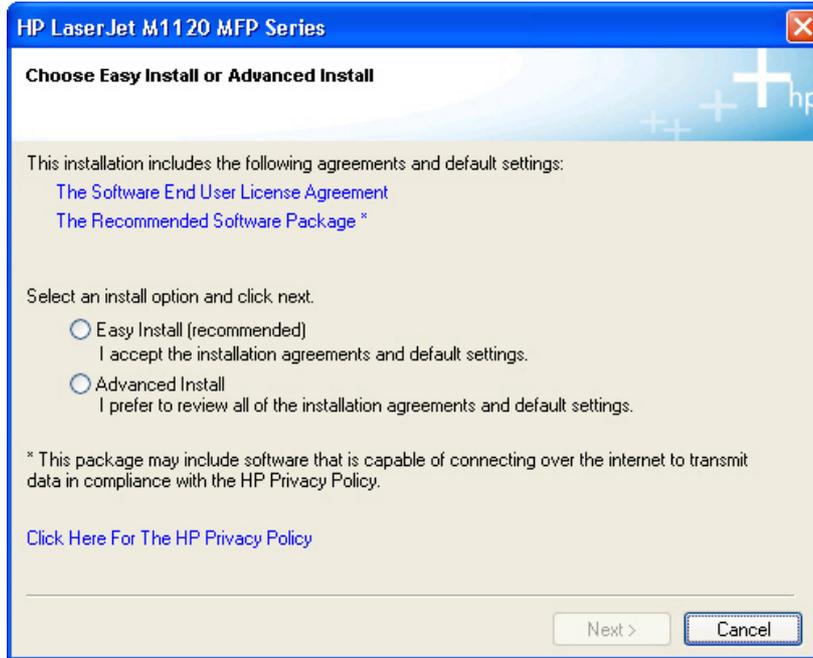
Install MS Windows software components

If the screen does not appear when the software CD is inserted into the CD-ROM drive, follow these steps to open the CD Browser:

- a. Click **Start**.
- b. Click **Run**.
- c. Click **Browse...** and then navigate to the root directory of the software CD.
- d. Double-click the SETUP.EXE file to start the installer.
- e. Click **Install** to begin the installation process.

2. The **Choose Easy Install or Advanced Install** dialog box appears.

Figure 3-2 Step 2 - **Choose Easy Install or Advanced Install** dialog box



Click **The Software End User License Agreement** to read the agreement. Click **The Recommended Software Package** to see what is included in the recommended installation for the HP LaserJet M1120 MFP Series software.

To automatically accept installation agreements and install the recommended software package, click **Easy Install**.

To review the installation agreements and default settings during the installation process, click **Advanced Install**.

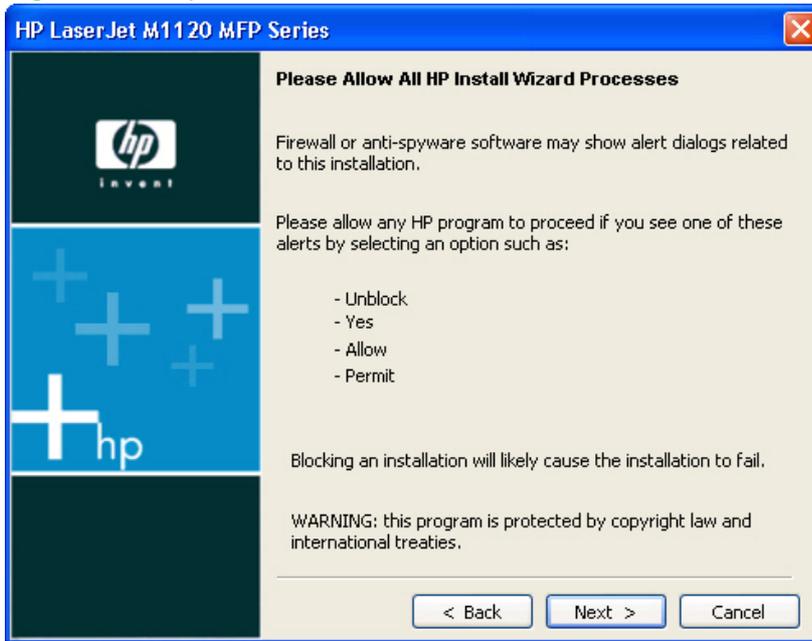
Click **Click Here For the HP Privacy Policy** to read the privacy policy.

Click **Next** to go to the **Please Allow All HP Install Wizard Processes** dialog box (step 3).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

3. The **Please Allow All HP Install Wizard Processes** dialog box appears.

Figure 3-3 Step 3 - **Please Allow All HP Install Wizard Processes** dialog box



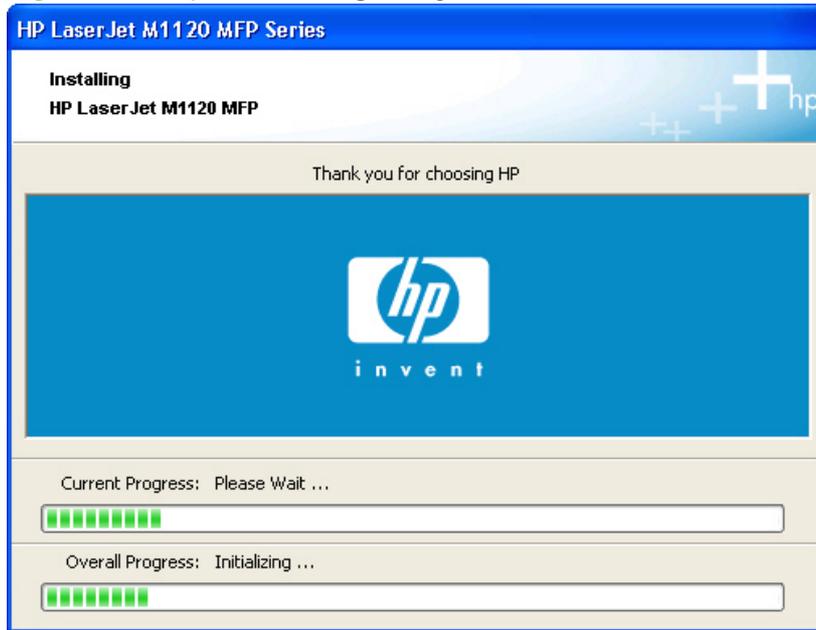
Click **Back** to go back to the **Choose Easy Install or Advanced Install** dialog box (step 2).

Click **Next** to go to the **Installing** dialog box (step 4).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

4. The **Installing** dialog box appears.

Figure 3-4 Step 4 - **Installing** dialog box



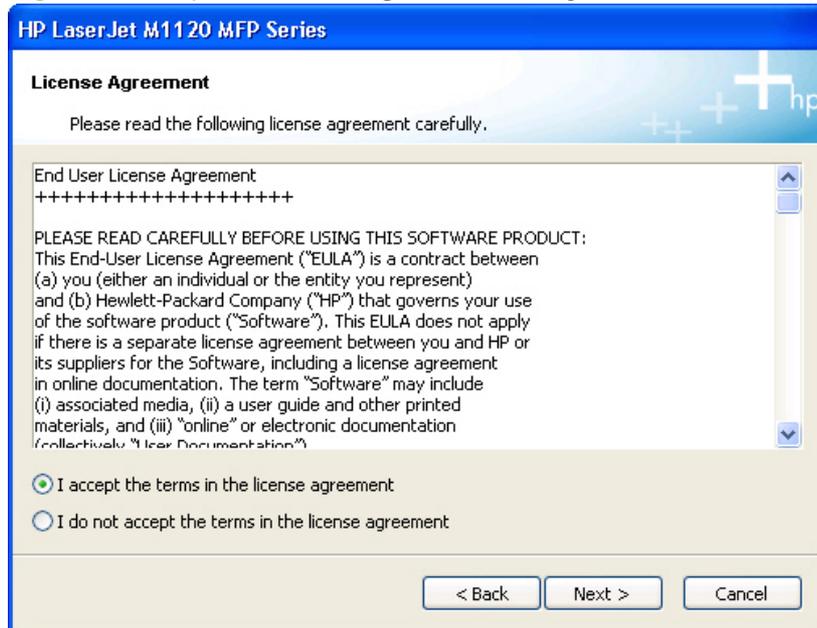
The **Installing** dialog box appears periodically during the installation process. This dialog box includes progress bars for the individual elements of the installation and for overall installation progress.

If you chose the **Easy Install** option, the **Select Printer** dialog box appears next (step 8).

If you chose the **Advanced Install** option, the **License Agreement** dialog box appears next (step 5).

5. The **License Agreement** dialog box appears.

Figure 3-5 Step 5 - **License Agreement** dialog box



Click the **I accept the terms in the license agreement.** option, and then click **Next** to go to the **HP Privacy Policy** dialog box (step 6).

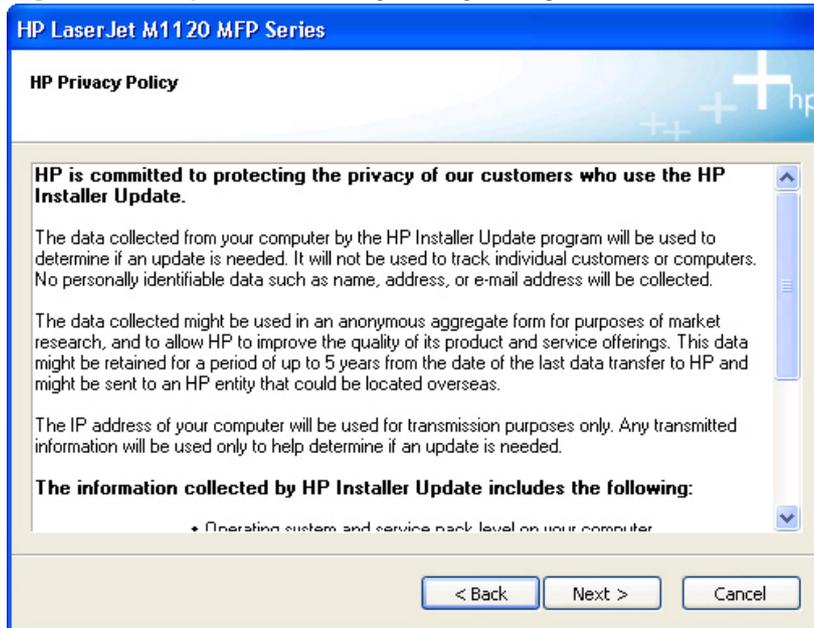
Click **I do not accept the terms in the license agreement.** if you do not accept the agreement. Clicking this option disables the **Next** button.

Click **Back** to return to the **Please Allow All HP Install Wizard Processes** dialog box (step 3).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

6. The **HP Privacy Policy** dialog box appears.

Figure 3-6 Step 6 - **HP Privacy Policy** dialog box



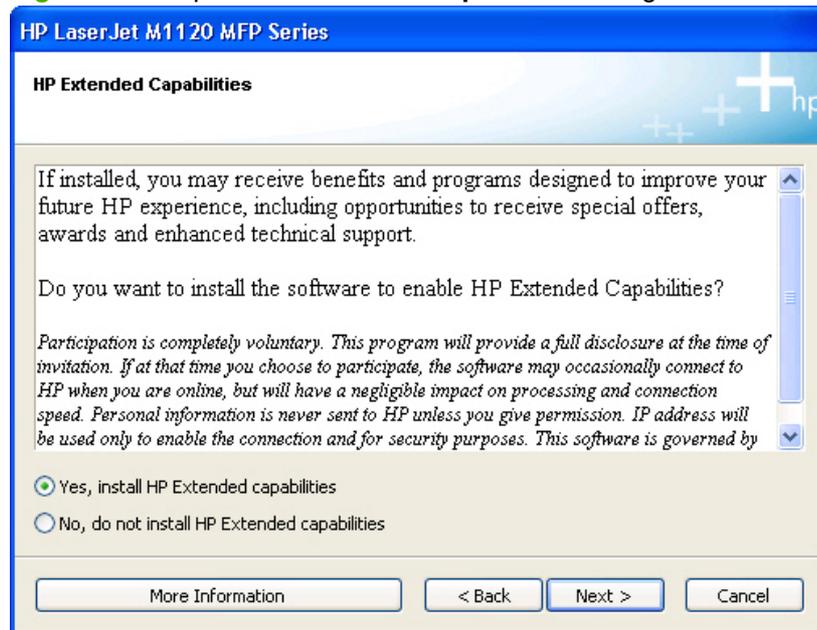
Click **Next** to go to the **HP Extended Capabilities** dialog box (step 7).

Click **Back** to return to the **HP License Agreement** dialog box (step 5).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

7. The **HP Extended Capabilities** dialog box appears.

Figure 3-7 Step 7 - **HP Extended Capabilities** dialog box



If you select the **Install HP Extended Capabilities** option, a dialog box appears two weeks after installing the device inviting participation in the HP Product Survey Program.

If you select the **Do not install HP Extended Capabilities** option, you will not be invited to participate in the HP Product Survey Program.

Click **More Information** to find out more about HP Extended Capabilities and the HP Product Survey Program.

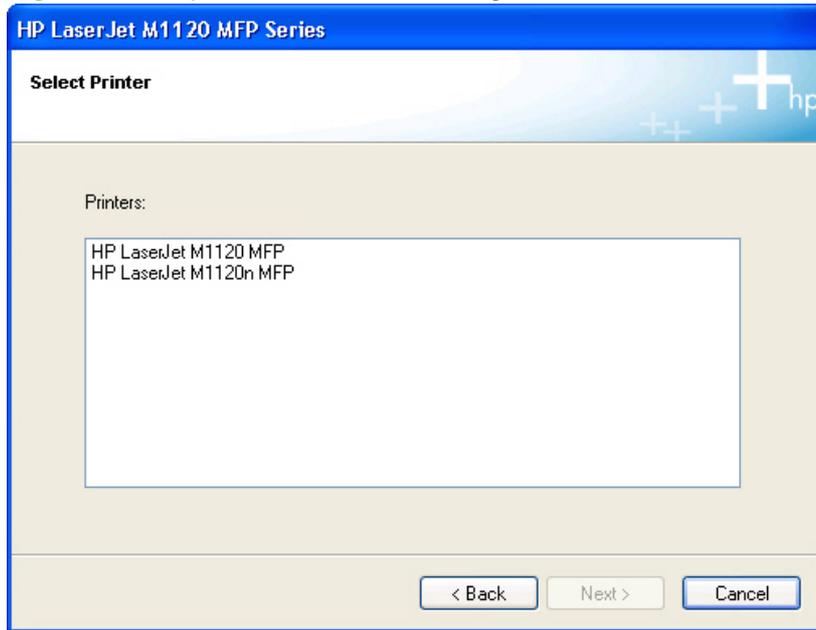
Click **Next** to go to the **Select Printer** dialog box (step 8).

Click **Back** to return to the **HP Privacy Policy** dialog box (step 6).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

8. The **Select Printer** dialog box appears.

Figure 3-8 Step 8 - **Select Printer** dialog box



Click the name of the printer model to install, and then click **Next** to go to the **Printer Connections** dialog box (step 9).

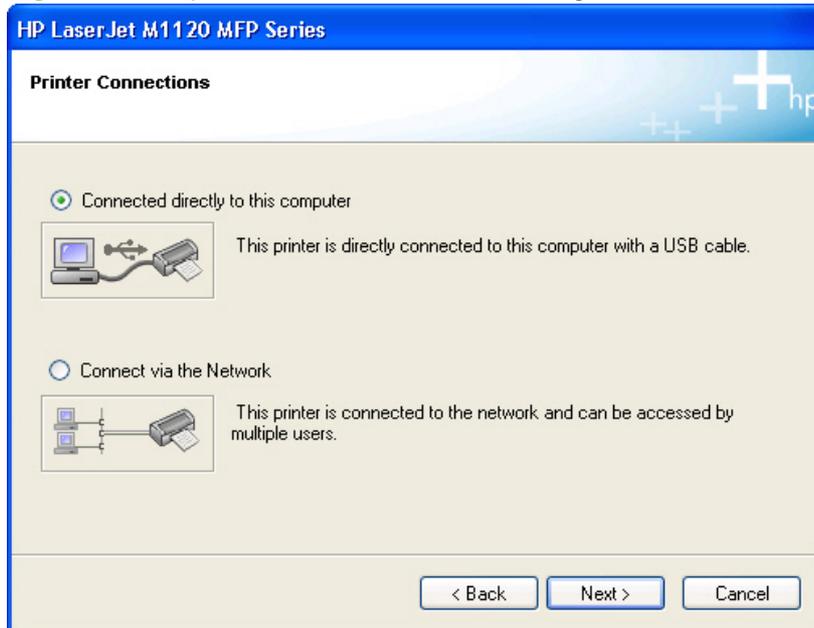
If you chose the **Easy Install** option, clicking **Back** takes you to the **Please Allow All HP Install Wizard Processes** dialog box (step 3).

If you chose the **Advanced Install** option, clicking **Back** takes you to the **HP Extended Capabilities** dialog box (step 7).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

9. The **Printer Connections** dialog box appears.

Figure 3-9 Step 9 - **Printer Connections** dialog box



Click **Connected directly to this computer** to install software for a direct connection. Then click **Next** to go to the **Connect your device now** dialog box (step 10).

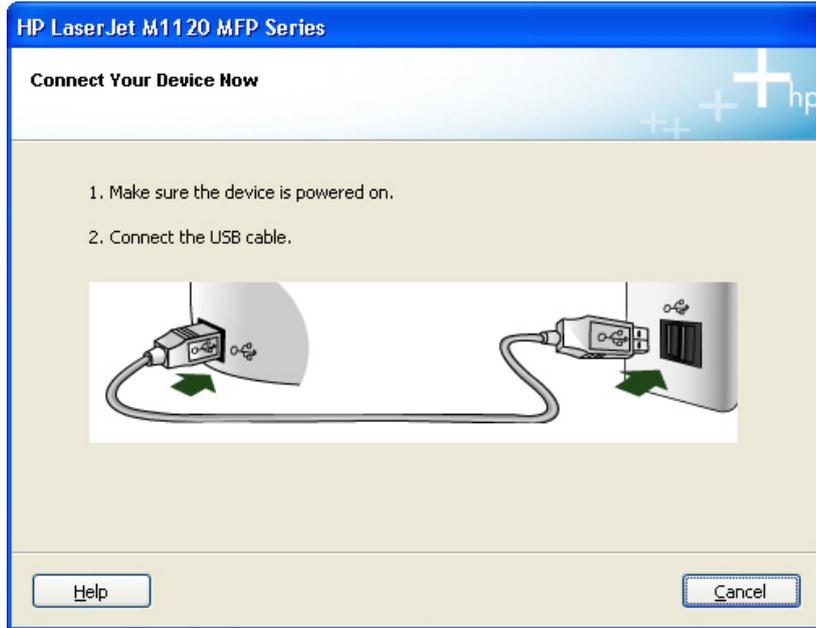
Click **Connect via the network** to install software for a network connection. Then click **Next** to go to the **Identify Printer** dialog box (step 11).

Click **Back** to go back to the **Select Printer** dialog box (step 8).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

10. If you chose **Connected directly to this computer**, the **Connect your device now** dialog box appears. If you chose **Connect via the network**, go to step 11.

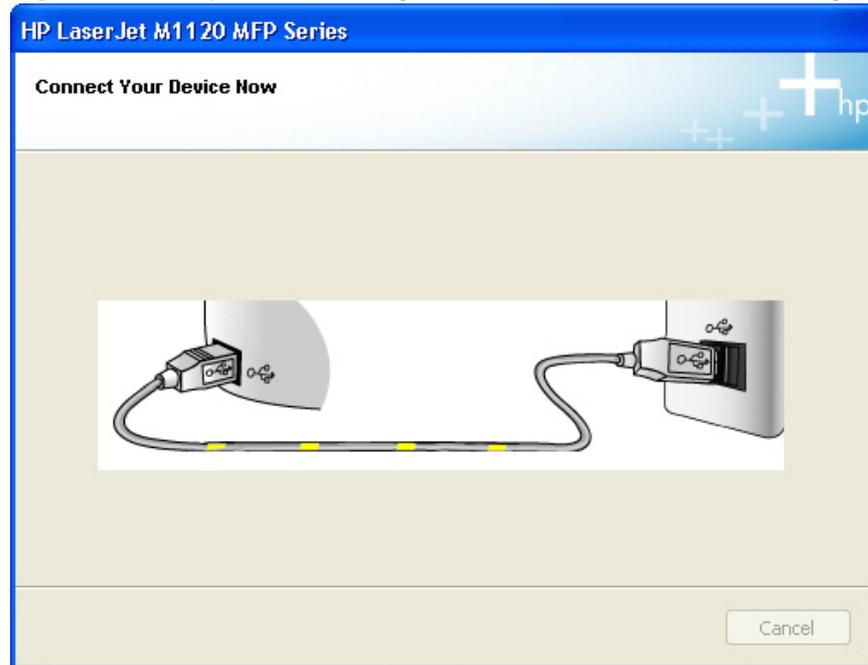
Figure 3-10 Step 10 - **Connect your device now** - disconnected dialog box



- a. When this dialog box appears, make sure your product is powered on, then connect the USB cable between the computer and the product. If you need help, click **Help** for more information. Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

- b. After the USB cable is connected, the **Connect your device now** dialog box looks like the following illustration.

Figure 3-11 Step 10 - **Connect your device now** - connected dialog box



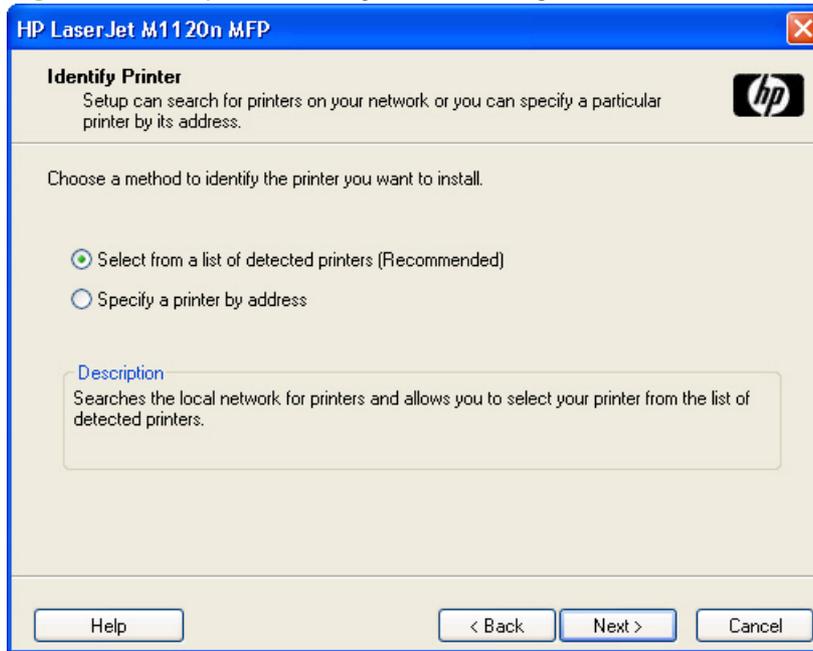
- c. The installation process continues automatically.

 **NOTE:** If required, the installer updates the device firmware. This might take several minutes.

When the installation is complete, the **Congratulations! Software installation complete.** dialog box appears (step 20).

11. If you chose a network installation, the **Identify Printer** dialog box appears next.

Figure 3-12 Step 11 - **Identify Printer** dialog box



Click **Select from a list of detected printers (Recommended)** to have the installer find available printers on the network. Clicking **Next** with this option takes you to the **Searching** dialog box (step 12).

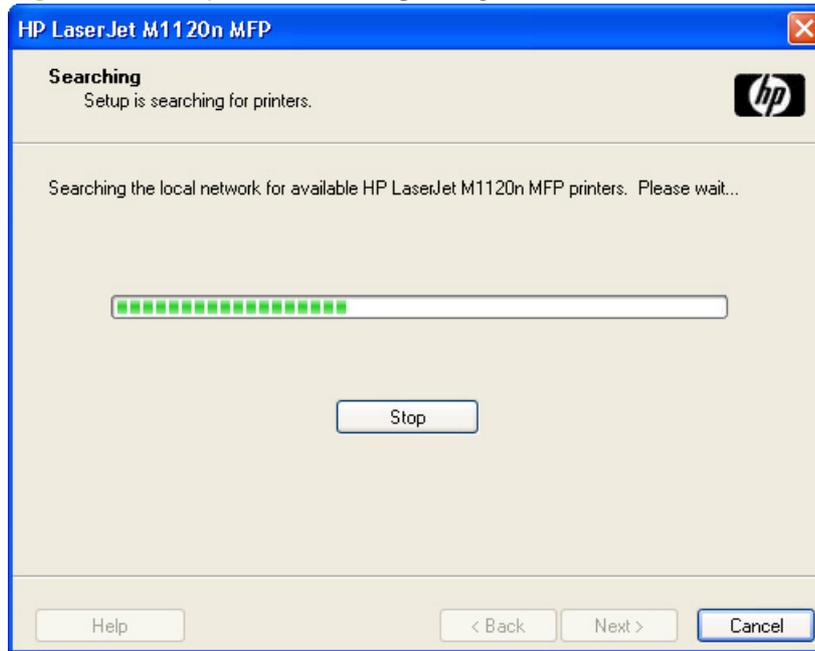
Click **Specify a printer by address** to designate a specific printer on the network. Clicking **Next** with this option takes you to the **Specify Printer** dialog box (step 15).

Click **Back** to return to the **Printer Connections** dialog box (step 9).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

12. The **Searching** dialog box appears next.

Figure 3-13 Step 12 - **Searching** dialog box



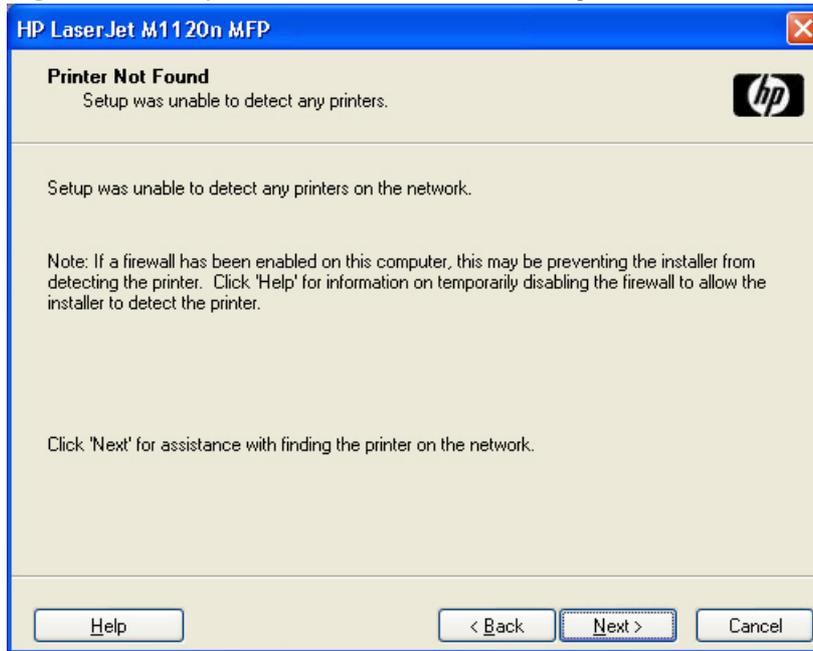
The installer searches the network for available printers. If the printer is found on the network, the **Printer Found** dialog box appears (step 16). If the printer is not found, the **Printer Not Found** dialog box appears (step 13).

Click **Stop** to stop the search for printers. The search is paused until you click **Restart** to continue the search or **Back** to return to the **Identify Printer** dialog box (step 11).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

13. If the printer is not found on the network, the **Printer Not Found** dialog box appears.

Figure 3-14 Step 13 - **Printer Not Found** dialog box



Click **Help** for information about disabling firewalls.

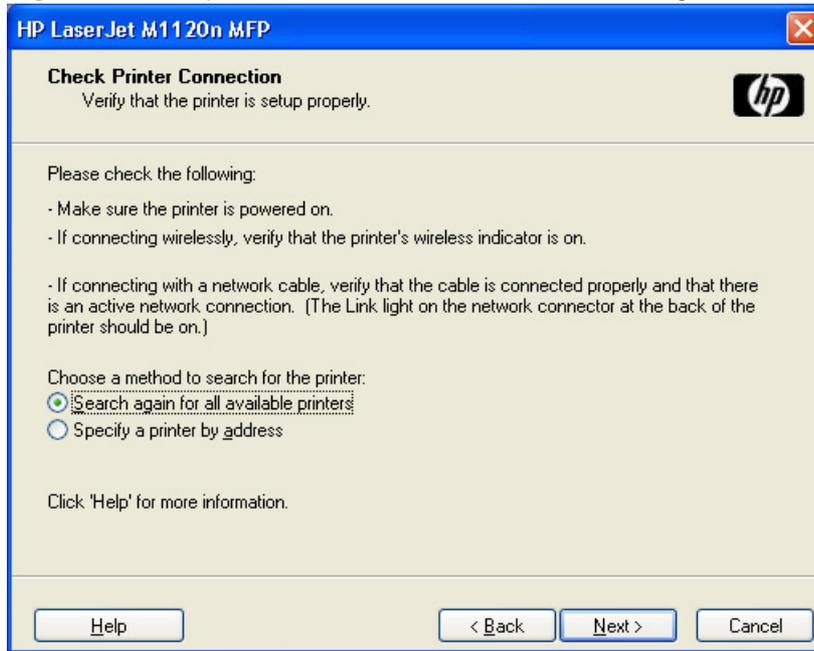
Click **Back** to return to the **Identify Printer** dialog box (step 11).

Click **Next** to go to the **Check Printer Connection** dialog box (step 14).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

14. The **Check Printer Connection** dialog box appears.

Figure 3-15 Step 14 - **Check Printer Connection** dialog box



This dialog box offers troubleshooting tips for finding the printer on the network.

Click **Search again for all available printers** and then click **Next** to return to the **Searching** dialog box (step 12).

Click **Specify a printer by address** and then click **Next** to search for a specific printer. The **Specify Printer** dialog box appears (step 15).

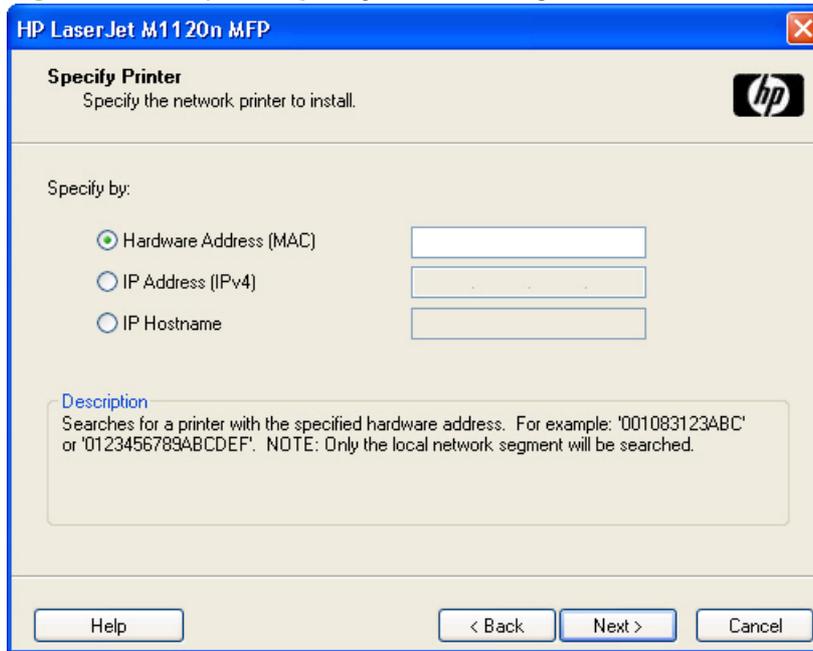
Click **Help** to get more information.

Click **Back** to return to the **Printer Not Found** dialog box (step 13).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

15. The **Specify Printer** dialog box appears next.

Figure 3-16 Step 15 - **Specify Printer** dialog box



Click the appropriate option to specify a printer using the **Hardware Address (MAC)**, the **IP Address (IPv4)**, or the **IP Hostname** fields. You can find this information by printing a configuration page for the product. Clicking **Next** with any of these options takes you to the **Printer Not Found** dialog box (step 13) or to the **Printer Found** dialog box (step 16).

Click **Back** to return to the **Identify Printer** dialog box (step 11).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

Printing a configuration page

- a. On the product control panel, press **Setup**.
- b. Use the arrow buttons to select **Reports**, and then press **OK**.
- c. Use the arrow buttons to select **Config report**, and then press **OK**.

- d. You can find the product hardware address and IP information in the lower left portion of the page, as shown in Figure 3–17.

Figure 3-17 Configuration Page

HP LaserJet M1120n MFP

Self Test / Configuration

Product Information		Copy Settings	
Product Name:	HP LaserJet M1120n MFP	Default Copy Quality:	= Text
Formatter Number:	R00009H	Default Copy Light/Dark:	= <----->
Product Serial Number:	CHV74C013	Default Copy Number Of Copies:	= 1
Service ID:	07241	Default Copy Reduce/Enlarge:	= Original (100%)
Firmware Datecode:	20070810		
Max print quality:	FastColor1200		
Total Memory:	32 Mbytes		
Available Memory:	20 Mbytes		
Front Panel Type:	Western		

Paper Settings		Status Log	
Default Paper Size:	= Letter	Code	Page
Default Paper Type:	= Plain		
Print Density:	= 3		

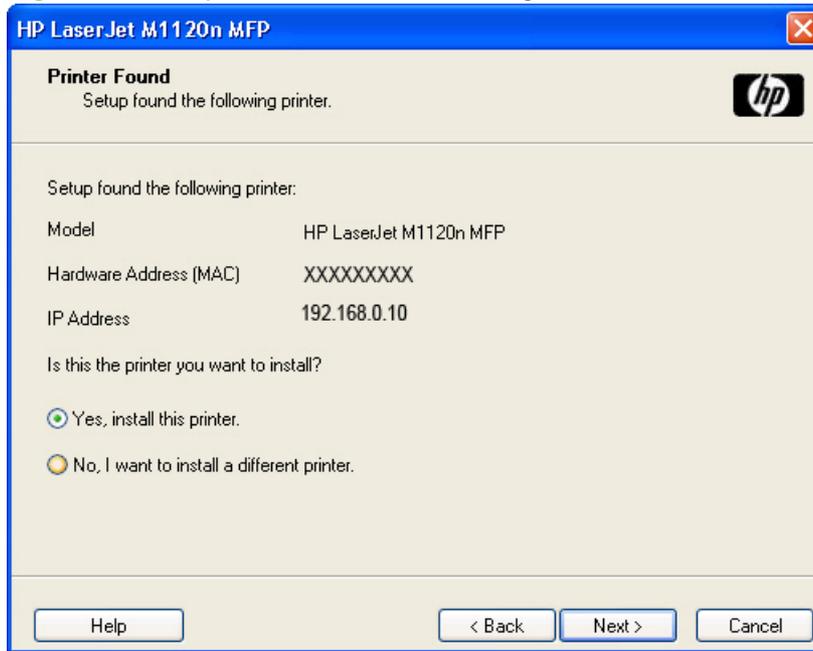
Usage		Network Information	
Copy pages:	= 0	Host Name:	HP000000K
Pages printed from copy:	= 0	Hardware Address:	= CCXXXXXX
Total pages printed:	= 7	Link Speed/Duplex:	= 100 Full
Scan pages:	= 0	Total Packets Received:	= 4235
Pages jammed in printer:	= 0	Total Packets Transmitted:	= 254
Pages mispicked in printer:	= 0	IP Address:	= 0.0.0.0
		Subnet Mask:	= 0.0.0.0
		Default Gateway:	= 0.0.0.0
		IP Configured By:	0.0.0.0
		DNS/BOOT Server:	0.0.0.0
		WINS Server:	0.0.0.0
		IPv6 Link Local Address:	=
		IPv6 Stateless Address:	=
		IPv6 DHCP Address:	=

Product Settings	
Language:	English
Jam recovery:	Off
IO Timeout:	120

Install MS Windows software components

16. The **Printer Found** dialog box appears next.

Figure 3-18 Step 16 - **Printer Found** dialog box



Click **Yes, install this printer.** and then click **Next** to continue to the **Confirm Network Settings** dialog box (step 17).

Click **No, I want to install a different printer.** and then click **Next** to return to the **Identify Printer** dialog box (step 11).

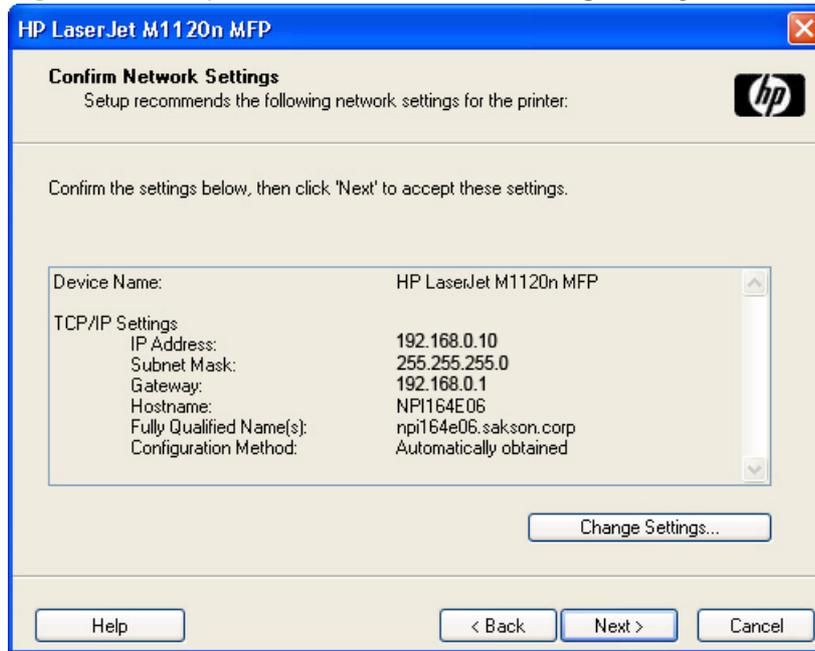
Click **Help** to get more information.

Click **Back** to return to the **Identify Printer** dialog box (step 11).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

17. The **Confirm Network Settings** dialog box appears.

Figure 3-19 Step 17 - **Confirm Network Settings** dialog box



Click **Change Settings** to go to the **Confirm Changing Settings** dialog box (step 18).

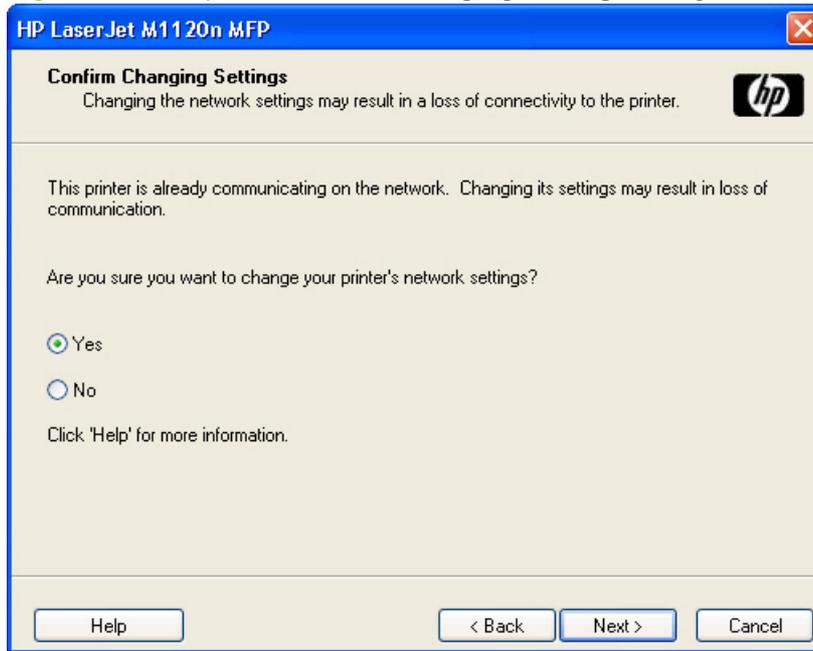
Click **Next** to accept the settings and continue the installation. If required, the installer updates the device firmware. This might take several minutes. When the installation is complete, the **Congratulations! Installation is complete.** dialog box appears (step 20).

Click **Back** to return to the **Printer Found** dialog box (step 16).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

18. If you chose **Change Settings**, the **Confirm Changing Settings** dialog box appears.

Figure 3-20 Step 18 - **Confirm Changing Settings** dialog box



Click **Yes** and then click **Next** to go to the **Change TCP/IP Settings** dialog box (step 19).

Click **No** and then click **Next** to return to the **Confirm Network Settings** dialog box (step 17).

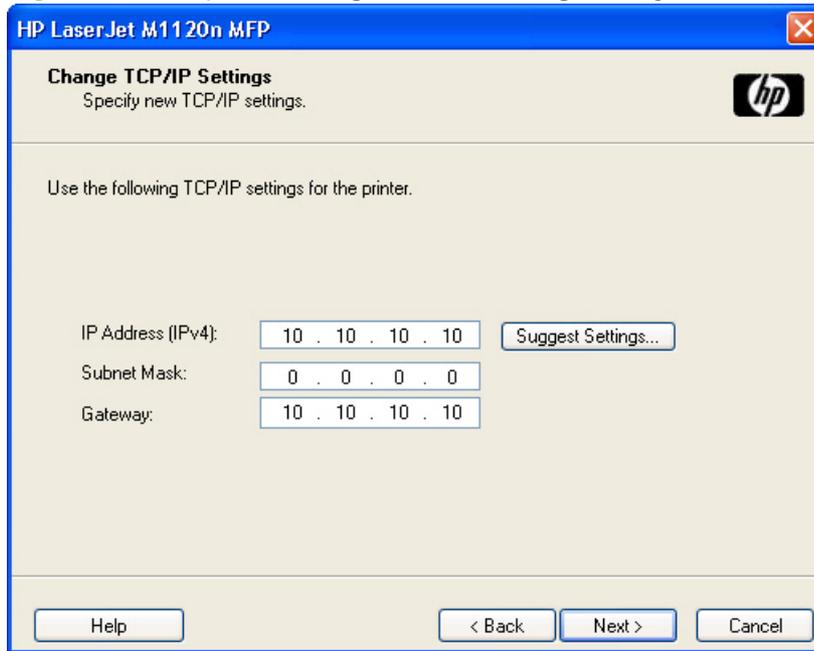
Click **Help** to get more information.

Click **Back** to return to the **Confirm Network Settings** dialog box (step 17).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

19. The **Change TCP/IP Settings** dialog box appears.

Figure 3-21 Step 19 - **Change TCP/IP Settings** dialog box



Change the settings in the **IP Address (IPv4)**, **Subnet Mask**, or **Gateway** fields, or click **Suggest Settings** to have the installer find the appropriate values. Click **Next** to return to the **Confirm Network Settings** dialog box (step 17).

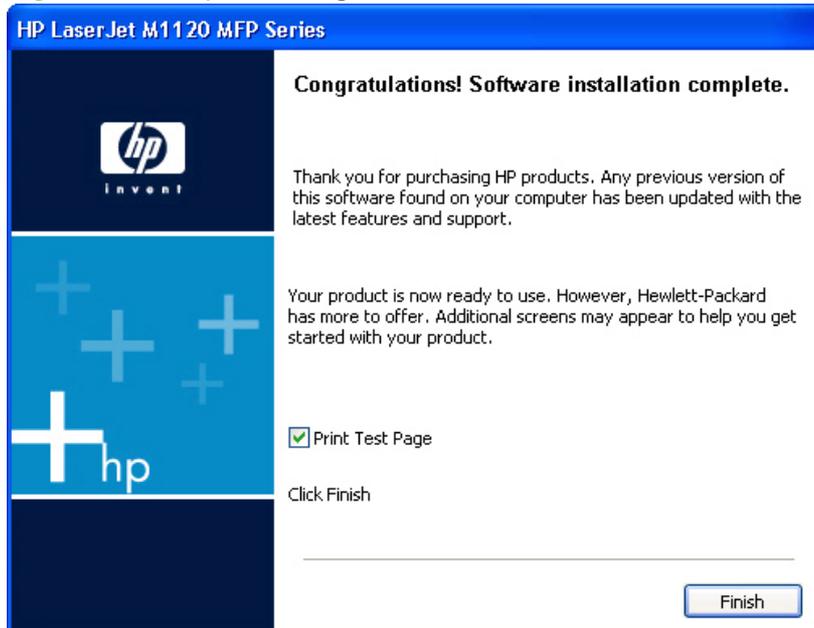
Click **Help** to get more information.

Click **Back** to return to the **Confirm Network Settings** dialog box (step 17).

Click **Cancel** to cancel the installation and go to the **User cancelled installation** dialog box (step 21).

20. The **Congratulations! Software installation is complete.** dialog box appears.

Figure 3-22 Step 20 - **Congratulations! Software installation is complete.** dialog box

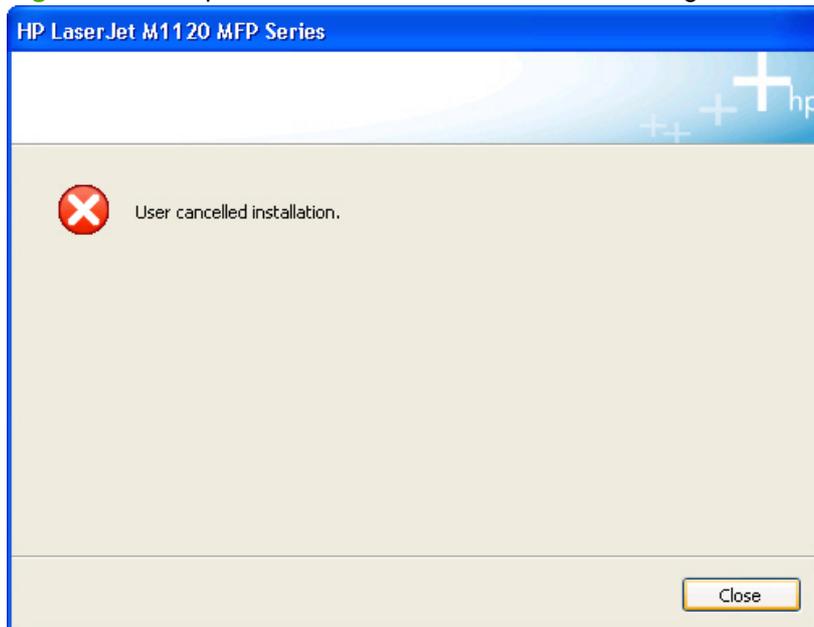


The **Print Test Page** checkbox is selected by default. Leave this box selected to print a test page to the device.

Click **Finish** to complete the installation and close the installer window.

21. If you clicked **Cancel** at any point in the installation process, the **User cancelled installation** dialog box appears.

Figure 3-23 Step 21 - **User cancelled installation** dialog box



Click **Close** to close the installer window.

User uninstall

Topics:

- [Uninstall methods](#)
- [Add or repair software using the installation CD](#)

Uninstall methods

Uninstall instructions for MS Windows operating systems

 **NOTE:** To uninstall the software from MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000, log on with Administrator privileges.

1. Quit all open programs.
2. Click **Start**, select **Programs** (or **All Programs** in MS Windows Server 2003 or MS Windows XP), select **HP**, select **HP LaserJet M1120 MFP**, and then click **Uninstall**.
3. The **Are you sure you want to uninstall this product?** dialog box appears.

Figure 3-24 The **Are you sure you want to uninstall this product?** dialog box

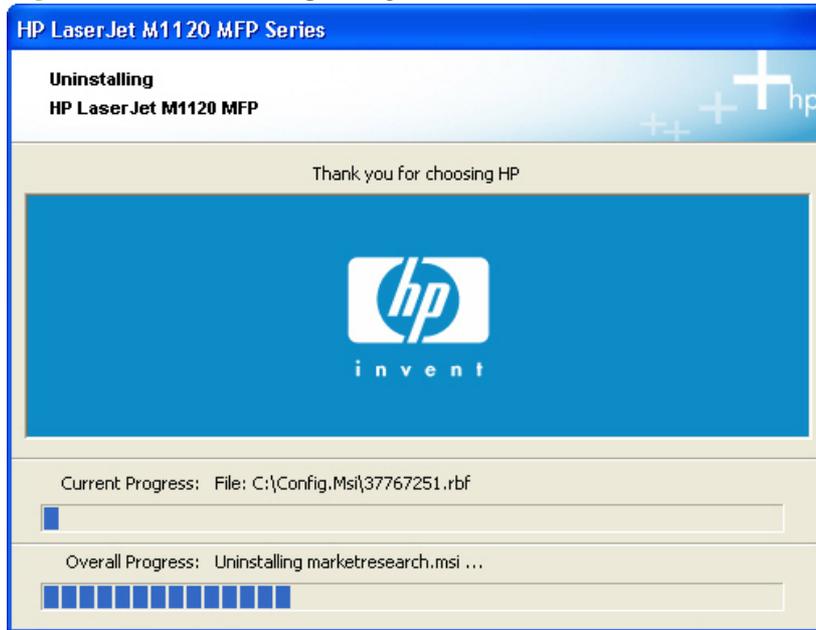


Click **Yes** to continue to the **Uninstalling** dialog box (step 4).

Click **No** to cancel the uninstall process and close the dialog box.

4. The **Uninstalling** dialog box appears and the uninstall process begins.

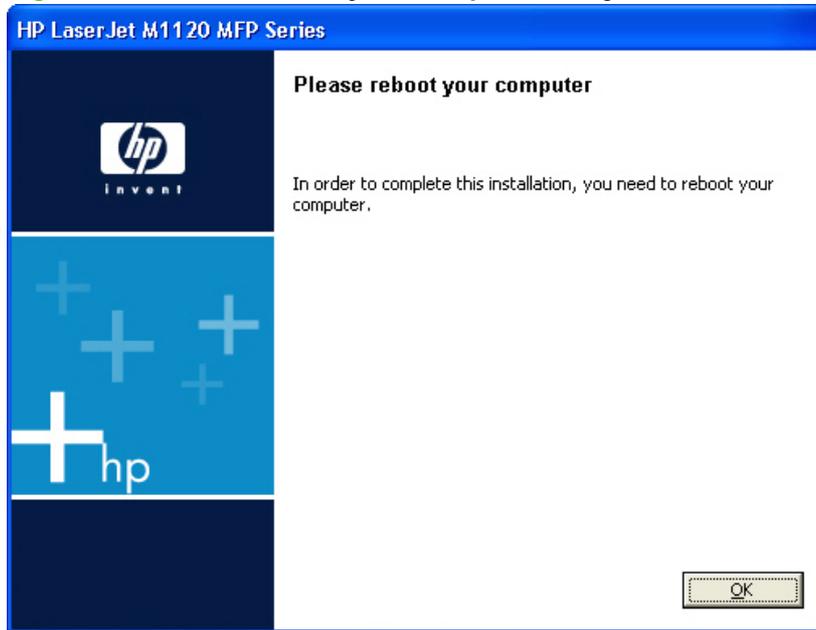
Figure 3-25 Uninstalling dialog box



A progress bar reflects the status of the uninstall process.

5. When the uninstall process is complete, the **Please reboot your computer** dialog box appears.

Figure 3-26 Please reboot your computer dialog box



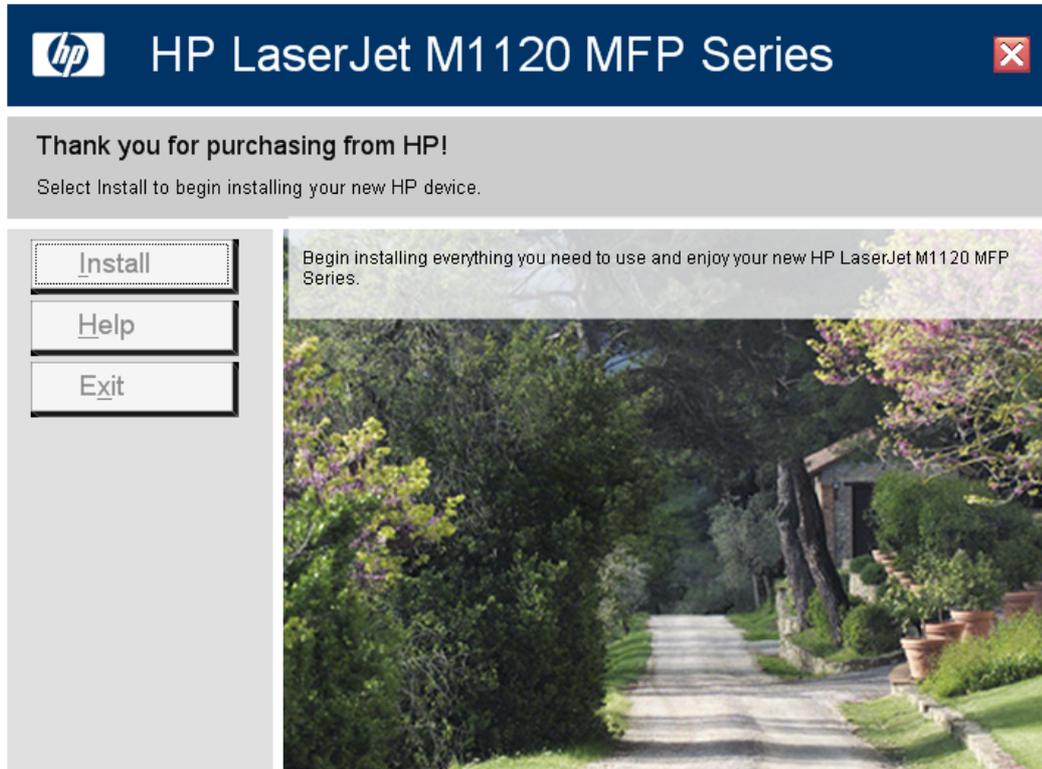
Click **OK** to restart your computer and finish the uninstall process.

Add or repair software using the installation CD

After installing the software, use the installation CD to add another printer or repair installation errors.

1. Insert the CD into the CD-ROM drive.

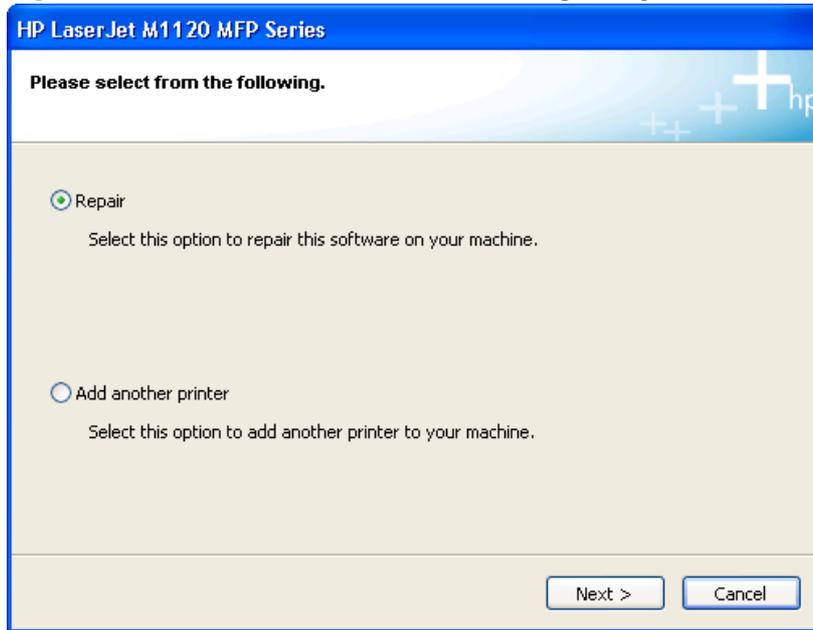
Figure 3-27 CD Browser - Main screen



Click **Install** to continue.

2. The **Please select from the following** dialog box appears.

Figure 3-28 Please select from the following dialog box



Click **Repair** to repair installation errors.

Click **Add another printer** to add another printer.

Click **Cancel** to exit the process.

3. After clicking an option, click **Next** and then follow the onscreen prompts to complete the process.

4 Host-based driver features for MS Windows

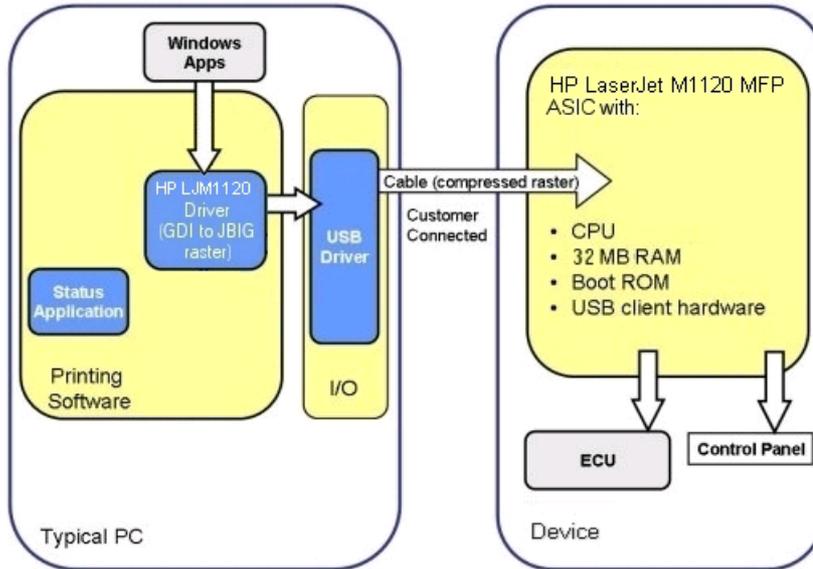
Topics:

- [Introduction to host-based printing](#)
- [Access to the driver](#)
- [Help system](#)
- [Driver tabs](#)

Introduction to host-based printing

The HP LaserJet M1120 MFP is a host-based device. Host-based printing differs from PCL printing by computing the print job on the host computer rather than computing it in the device formatter. The following illustration shows how the HP LaserJet M1120 MFP Series printing-system software works.

Figure 4-1 HP LaserJet M1120 MFP host-based driver overview



As a host-based printing system, the HP LaserJet M1120 MFP print driver uses MS Windows to convert the graphics device interface (GDI) or device driver interface (DDI) calls from software programs into JBIG (standard-compression) compressed pages. These pages are sent in “chunks” through the driver to the device formatter.

The HP LaserJet M1120 MFP print driver also receives status messages from the formatter firmware. These messages are passed to the Status Application, which displays them.

The HP LaserJet M1120 MFP formatter has 2 MB of read-only memory (ROM) and 32 MB of random access memory (RAM). Both the firmware and the compressed page must fit into the 32 MB of RAM.

Access to the driver

To gain access to driver settings from within most software programs, click **File**, click **Print**, and then click **Properties**. The appearance and names of the driver tabs that appear can vary, depending on the operating system. These settings apply only while the software program is open.

You can also control the driver directly from the **Printers** folder. These settings change the default settings for all software programs.

- In MS Windows 2000, click **Start**, select **Settings**, select **Printers**, right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.
- In MS Windows Server 2003 or MS Windows XP, click **Start**, select **Settings**, select **Printers and Faxes** (MS Windows XP Professional) or **Printers and Other Hardware Devices** (MS Windows XP Home), right-click the device name, and then click **Printing Preferences** to gain access to the same set of driver tabs that the software program controls.

Click **Properties** after right-clicking the device name to gain access to the **Properties** tab set, which controls the driver behavior and driver connections.

Printing Preferences tab set

The HP LaserJet M1120 MFP host-based **Printing Preferences** tabs contain options for formatting documents for the HP LaserJet M1120 MFP. Gain access to the **Printing Preferences** tabs either through the software program or through the MS Windows **Printers** folder.

The following tabs are included in **Printing Preferences** tab set:

- Advanced
- Paper/Quality
- Effects
- Finishing
- Services

Properties tab set

The **Properties** tab set contains information about and options for configuring the device.

 **NOTE:** MS Windows also has tabs in the **Properties** tab set. For information about those tabs, see the documentation that came with the computer.

Help system

The HP LaserJet M1120 MFP Series host-based driver includes a full-featured Help system to provide assistance with printing and configuration options. The following Help options are available:

- [What's this? Help](#)
- [Context-sensitive Help](#)
- [Paper Type Warning](#)

What's this? Help

"What's this?" Help is supported in MS Windows Vista, MS Windows Server 2003, MS Windows XP, or MS Windows 2000. Access "What's this?" Help messages in the following ways:

- Right-click a control and click **What's this?**, and a pop-up Help window appears.
- Click the ? button at the upper-right corner of the frame, next to the X, to change the cursor to an arrow with a question mark. Use this special cursor to select a control, and the pop-up Help window for that feature appears.
- Press the F1 key, and the Help window for the currently selected control appears.

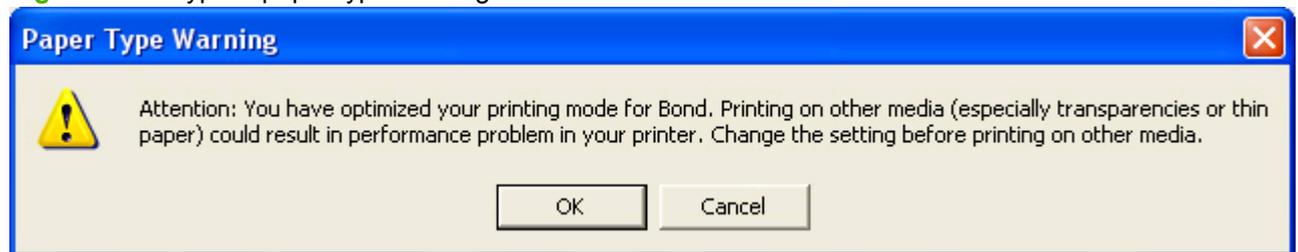
Context-sensitive Help

Press the **Help** button on a driver tab or in a dialog box, and context-sensitive Help appears.

Paper Type Warning

Paper type warnings are unsolicited messages that appear in response to specific actions. These messages appear in response to selections that could damage the device. For example, if you select **Bond** in the **Type is:** drop-down menu, a message appears warning you to change the setting before printing on other types of paper.

Figure 4-2 A typical paper type warning



Driver tabs

Topics:

- [Printing Preferences tab set](#)
- [Properties tab set](#)

Printing Preferences tab set

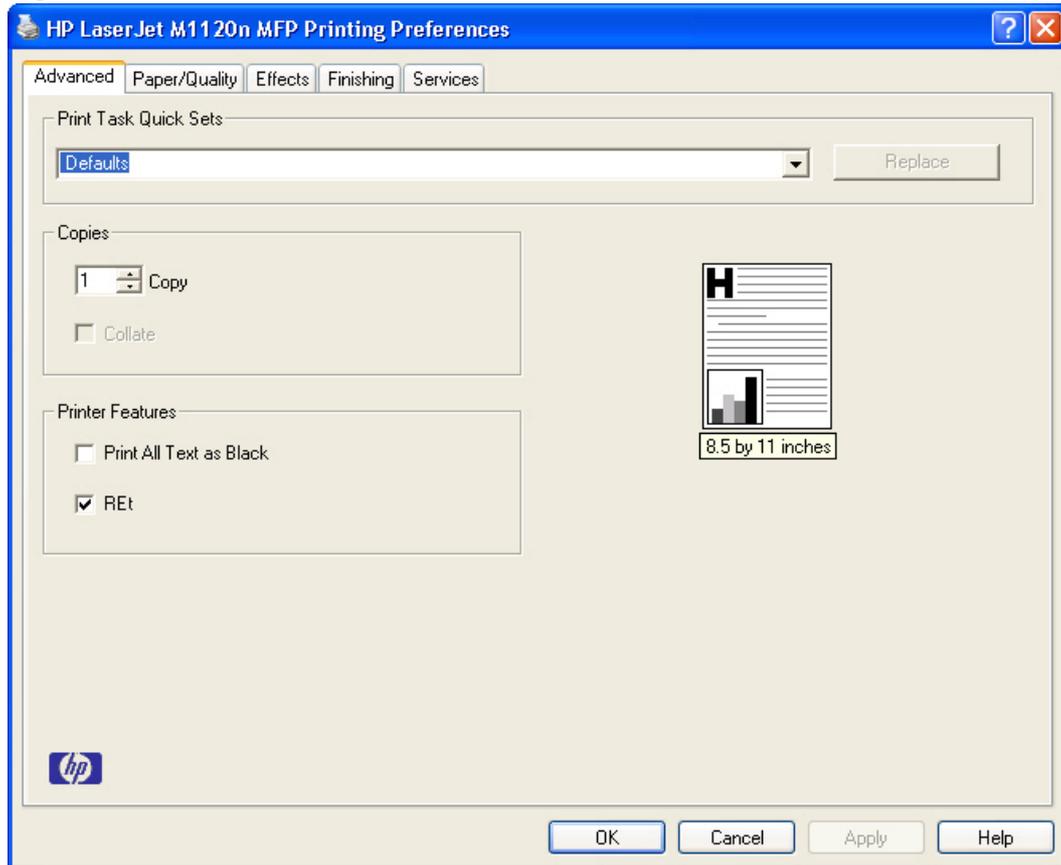
Topics:

- [Advanced tab features](#)
- [Paper/Quality tab features](#)
- [Effects tab features](#)
- [Finishing tab features](#)
- [Services tab features](#)

Advanced tab features

Use the **Advanced** tab to set the number of copies, collation, and print-job output options. The following illustration shows the **Advanced** tab.

Figure 4-3 Advanced tab



Host-based driver features for MS Windows

Paper/Output

The following settings are in the **Paper/Output** group box:

- [Collate](#)
- [Copy](#)

Collate

The **Collate** option becomes active if the **Copy** setting is greater than 1. Select **Collate** to collate multiple copy print jobs.

Copy

This setting is useful for software programs that do not provide a copy count. If a copy count is available in the software program, set the copy count in the software program. **Copy** specifies the number of copies to print.

The requested number of copies appears in the **Copy** option. Select the number by typing in the box or by using the up and down arrows to the right of the text box. For the HP LaserJet M1120 MFP Series, valid entries are numbers from 1 to 9999. The copies value will not advance from the maximum number (9999) to 1 when the up arrow is used, or change from 1 to the maximum number (9999) when the down arrow is used.

When you click another group box or leave the **Advanced** tab, invalid entries into the edit box (such as non-numerical input, numbers less than 1, or numbers greater than the maximum allowed) change to the last valid value that appeared in the box. The default number of copies is 1.

Because the number of copies can be set from some software programs, conflicts can arise between the software program and the driver. In most cases, the software program and the driver communicate so that the number of copies set in one location (such as the program) appears in the other (such as the driver). For some programs, this communication does not happen, and the copies values are treated independently. For example, setting 10 copies in the program and then setting 10 copies in the driver will result in 100 copies (10 x 10) being printed. Set the number of copies in the program, wherever possible.

Printer Features

The following settings are in the **Printer Features** group box:

- [Print all Text as Black](#)
- [REt](#)

Print all Text as Black

Print all Text as Black is off by default. When selected, the driver prints all text as black regardless of the original document text color. However, white text remains white as a fail-safe method of printing reverse typeface against a dark background. This setting does not affect graphic images on the page.

Print all Text as Black remains selected only for the current print job.

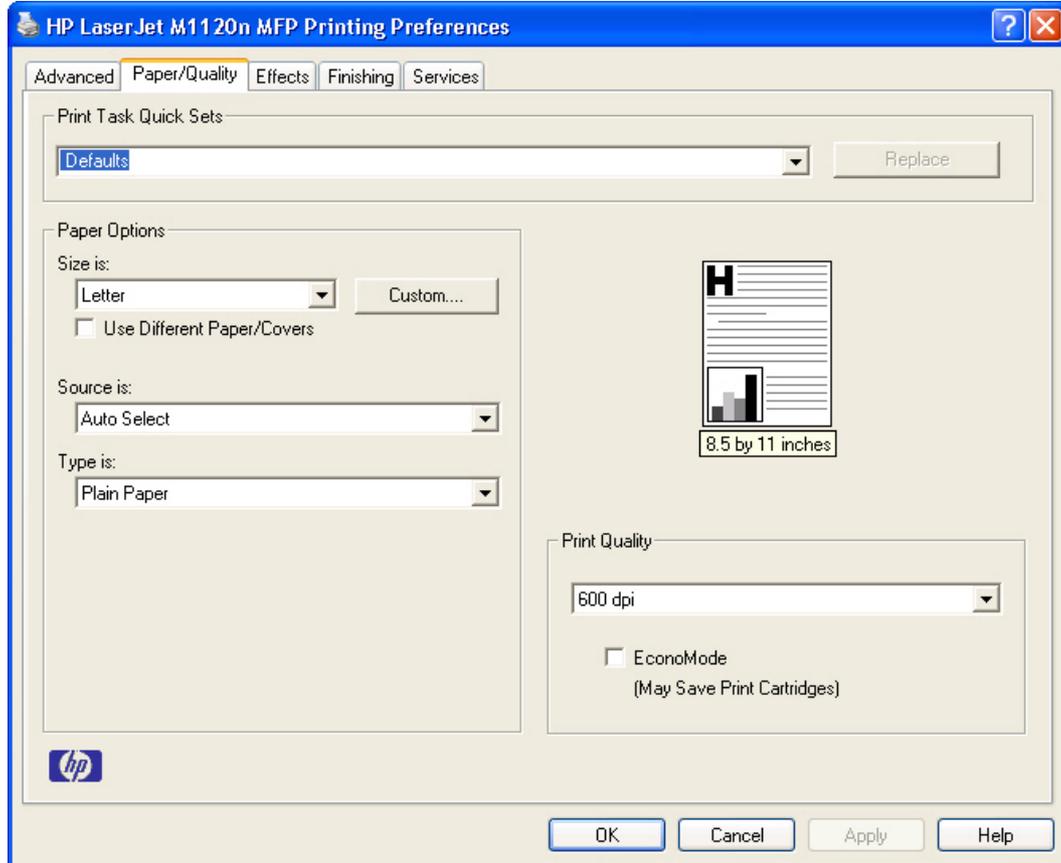
REt

Resolution Enhancement technology (REt) refines the print quality of characters by smoothing out jagged edges that can occur on the angles and curves of a printed image. It is **On** by default. Select **Off** if graphics, particularly scanned images, are not printing clearly.

Paper/Quality tab features

Use the **Paper/Quality** tab to specify the size, type, and source of the paper for the HP LaserJet M1120 MFP Series. You can also use this tab to indicate different paper-selection choices for the first page, other pages, and back cover of the document. The following illustration shows the **Paper/Quality** tab.

Figure 4-4 Paper/Quality tab



Print Task Quick Sets

The first group box in the upper portion of the **Paper/Quality** tab is **Print Tasks Quick Sets**. Because they are all the same control, any change to the **Print Task Quick Sets** group box that is made on the **Paper/Quality** tab affects the **Print Task Quick Sets** group boxes on the other driver tabs. The following tabs contain **Quick Sets** group boxes:

- **Paper/Quality**
- **Effects**
- **Finishing**

Use the **Print Task Quick Sets** setting to store the current combination of driver settings that appears on all of the other print driver tabs. **Print Task Quick Sets** are user-defined printing specifications (such as paper size, pages per sheet, and so on). The **Print Task Quick Sets** control does *not* appear on the driver **Properties** tabs.

The following selections are available in the **Print Task Quick Sets** drop-down menu:

- [Default Print Settings](#)

- [User's Manual](#)
- [Type new Quick Set name here](#)

Default Print Settings

When you select **Default Print Settings**, nearly all of the settings are restored to the combination that existed after the driver was installed (the original settings). However, if the attribute combinations that are associated with watermark definitions or custom paper sizes have been changed or deleted, the original settings are *not* restored.

Type new Quick Set name here appears in the **Print Task Quick Sets** menu automatically if no other driver settings have been changed since the driver was installed, or if all of the driver settings match the original settings. Otherwise, the setting in the **Print Task Quick Sets** menu is the same label that appeared when a user on the computer last closed the printing **Properties** dialog box by clicking **OK**.

User's Manual

The **User's Manual** option provides a **Print Task Quick Sets** setting for optimal printing of the *HP LaserJet M1120 MFP Series User Guide*.

Type new Quick Set name here

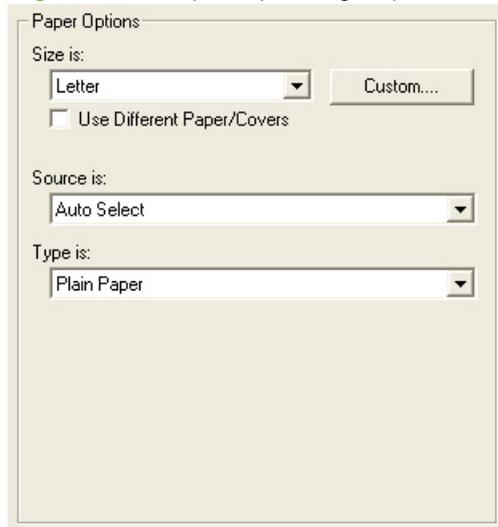
By default, the **Print Task Quick Sets** menu is set to **Type new Quick Set name here**. When you change any of the default settings on any of the **Printing Preferences** driver tabs, **Type new Quick Set name here** appears in the **Print Task Quick Sets** menu and the **Save** button becomes active. Highlight the words **Type new Quick Set name here**, type the name for the new Print Task Quick Set, and then click **Save**. Print Task Quick Sets are saved in the system registry. To delete a Print Task Quick Set, select it from the drop-down menu and then click **Delete**.

Store a maximum of 25 **Print Task Quick Sets** on any system. If you attempt to save too many, a message box appears that states: **There are too many Quick Sets defined. Please delete some before adding new ones.**

Paper Options

The settings specified in the **Paper Options** group box on the **Paper/Quality** tab apply to all of the pages of the document. The following illustration shows the **Paper Options** group box and the selections available.

Figure 4-5 Paper Options group box



The following are settings in the **Paper Options** group box:

- [Size is:](#)
- [Source is:](#)
- [Type is:](#)

Size is:

The **Size is:** setting is a drop-down menu that lists all of the supported paper sizes.

Specify the size for all the settings in the **Paper Options** group box. You must use the same size of paper for the entire print job. That is, if the print job uses letter-size paper, any option that you select from the available **Use Different Paper/Covers** options must also use letter-size paper.

 **NOTE:** Certain software programs can override the size command and specify different paper sizes within a single document.

For the **Other Pages** and **Back Cover** settings, select a source (tray) and paper type that differ from the settings selected for **First Page**. If a conflict exists among paper source, paper size, and/or paper type, and you choose to keep the conflicting settings, the settings are processed in the following order: paper size, paper type, and then paper source.

Because driver settings are overridden by paper-size settings in most software programs, use the driver to set paper size only for software programs that don't have a paper-size setting, such as NotePad, or when producing a book or a booklet that does not require different paper sizes.

 **NOTE:** When using a software program that has a paper-size setting, specify different paper sizes within a single document by using the **Use Different Paper/Covers** options.

For more information about paper sizes, see [Media attributes on page 128](#).

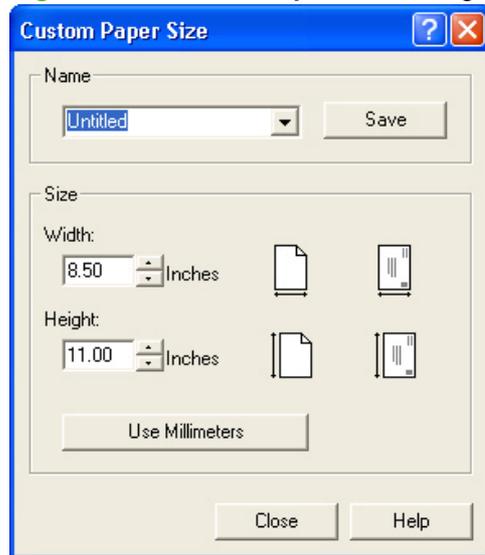
Use Different Paper/Covers check box

When the **Use Different Paper/Covers** check box is selected, the **Front Cover**, **First page**, **Other pages**, **Last page**, and **Back Cover** options become available. Click any of these options and then select **Size is:**, **Source is:**, and **Type is:** for each option.

Custom Paper Size group

Click the **Custom** button to open the **Custom Paper Size** dialog box.

Figure 4-6 Custom Paper Size dialog box



Use the **Custom Paper Size** dialog box to create or modify custom-paper-size information. The **Custom Paper Size** dialog box contains the following options:

- **Name** field. Click the text box to type a name for the custom paper size or click the drop-down menu to select a custom paper size that is already defined.
- **Paper Size** group box. If you type in a size that is too large or too small, the driver automatically adjusts the size.
 - **Width:** spin box. Use the spin controls to select the width for the custom paper size, or click in the text box to type the width.
 - **Height:** spin box. Use the spin controls to select the height for the custom paper size, or click in the text box to type the height.
- **Units** group box. Select inches or millimeters to define the custom paper size.

Click **Save** to save the custom size or click **Close** to return to the **Paper/Quality** tab.

Source is:

The **Source is:** setting specifies the source tray to use for printing a document.

The **Source is:** drop-down menu can contain the following options:

- **Auto Select**
- **Manual Feed**
- **Tray 1**

The default setting is **Auto Select**. When this is selected, the device uses the source tray that supports the selected paper size. If you select a source tray other than **Auto Select**, make sure that the correct paper size is loaded in the source tray.

For more information about paper sources, see [Media attributes on page 128](#).

Type is:

The **Type is:** drop-down menu shows all the paper types that the HP LaserJet M1120 MFP Series supports. When you use the default setting, **Letter**, the device uses the default paper type, which is usually **Plain**.

The following standard paper types appear in the lists.

Table 4-1 Standard paper types and engine speed

Paper type	Engine speed
Plain	Full – 1:1
HP Multipurpose Paper	Full – 1:1
HP Office Paper	Full – 1:1
HP All-in-One Printing Paper	Full – 1:1
HP LaserJet Paper	Full – 1:1
HP Premium Choice LaserJet Paper	Full – 1:1
Preprinted	Full – 1:1
Letterhead	Full – 1:1
Transparency	Half – 1:2
Prepunched	Full – 1:1
Labels	Half – 1:2
Bond	Half – 1:2 ¹
Recycled	Full – 1:1
Color	Full – 1:1
Light (< 75 g/m ²)	Full – 1:1
Heavy (90 to 105 g/m ²)	Half – 1:2 ¹
Cardstock (105 to 176 g/m ²)	Half – 1:2 ¹
Envelope	Half – 1:2 ¹
Rough	Half – 1:2 ¹

¹ Throughput for continuous printing might be less than 4 pages per minute as a result of fuser heating limitations.

The default setting is **Plain**. If you select a different setting, make sure that the correct paper type is loaded in the tray selected in the **Source is:** setting.

For more information about paper types, see [Media attributes on page 128](#).

Use Different Paper/Covers options

Print books that include different paper types by using the **Use Different Paper/Covers** options.

Select the **Use Different Paper/Covers** check box to make the following settings appear in the group box, along with associated options:

- **Front Cover**
- **First Page**
- **Other Pages**
- **Last Page**
- **Back Cover**

To use **Use Different Paper/Covers** options, configure the setting for the print job. Each option for the **Use Different Paper/Covers** setting is described in the sections that follow this procedure. Use the following instructions to configure the setting.

To configure the Use Different Paper/Covers options for a print job

For each option, set a different tray by using the **Source Is:** drop-down menu. For some options, the **Type is:** drop-down menu is also available.

1. To use different paper or cover stock, select the **Use Different Paper/Covers** check box. A list of options appears in the dialog box. The full set of selections is visible by using the down arrow button to the right of the list to scroll.
2. To use different paper for the pages within the print job, select the appropriate option (**Front Cover**, **First Page**, **Other Pages**, **Last Page**, or **Back Cover**) in the dialog box. A check mark appears to the left of the option when a setting is changed using the **Source is:** or **Type is:** drop-down menus.
3. Click **OK** to print.

 **NOTE:** Use the same size of paper for the entire print job. All options selected from the available **Use Different Paper/Covers** options use the size selected in the **First Page** settings.

When you change the type and source of the paper and covers, the settings remain configured until you close the software program.

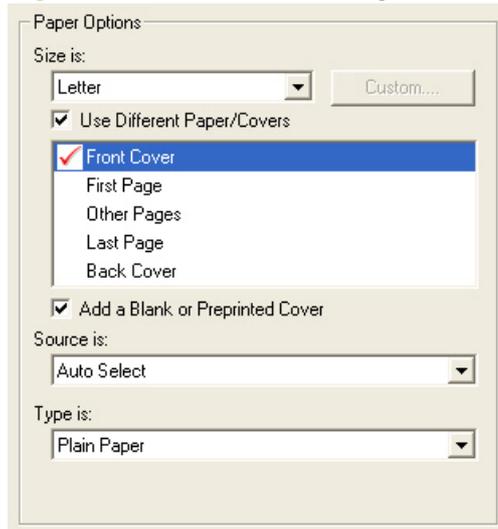
Each option for the **Use Different Paper/Covers** setting is described in the following sections.

Front Cover and Back Cover options

Use these options to include a blank or preprinted front cover or back cover on a document.

The following illustration shows the **Front Cover** setting and options. These options are the same for the **Back Cover** setting.

Figure 4-7 Front Cover setting



The **Front Cover** and **Back Cover** options are as follows:

- **Add a Blank or Preprinted Cover** check box
- **Source is:** drop-down menu
- **Type is:** drop-down menu

When you select **Front Cover** or **Back Cover**, also select the **Add a Blank or Preprinted Cover** check box to enable the setting. When this check box is selected, the **Source is:** and **Type is:** drop-down menus become available and a check mark appears next to the **Front Cover** or **Back Cover** option.

 **NOTE:** The **Back Cover** options are not available when the **Booklet Layout** setting is enabled on the **Finishing** tab. For two-page-per-sheet (2-up) booklet printing, include a cover by selecting different paper for the first page only. The back cover setting is unavailable, because this page would be printed in the middle of a booklet.

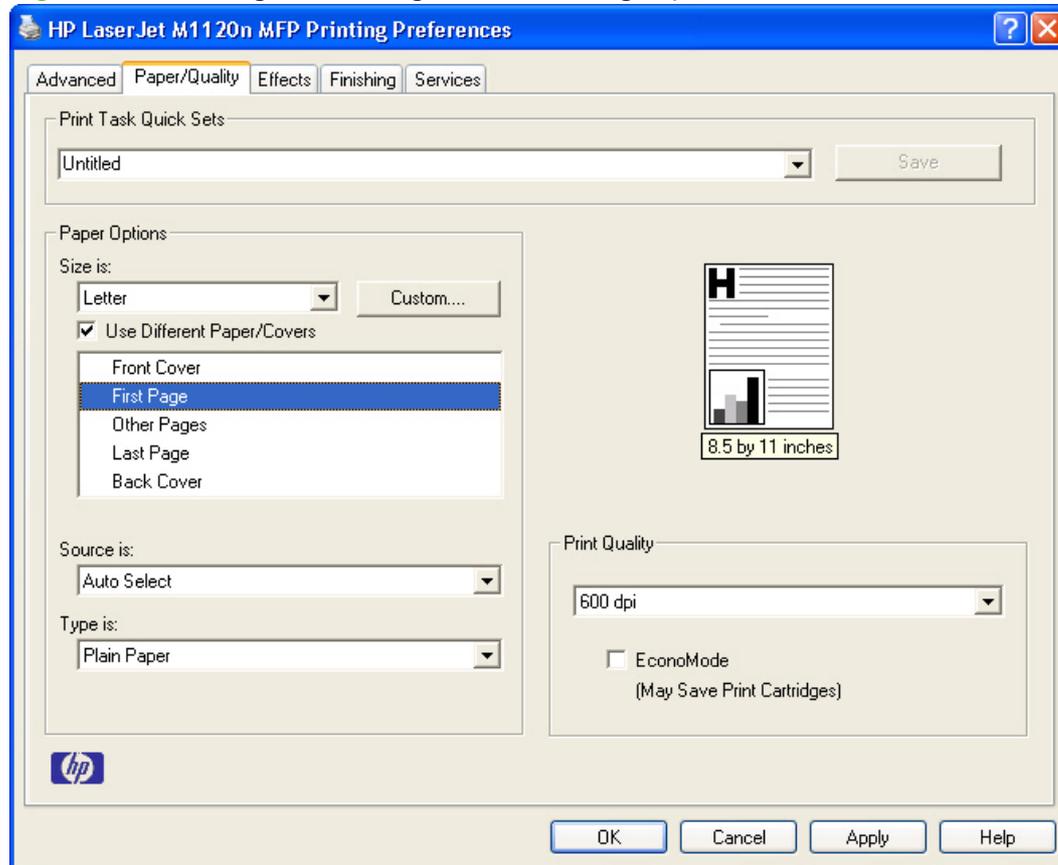
The **Source is:** setting specifies the source tray to use for adding a back cover to the document. The list of source trays depends on the installed accessories. Any optional paper trays that are installed through the **Configure** tab also appear here. For more information about the **Source is:** setting, see the [Source is: on page 92](#) section of this chapter.

The **Type is:** drop-down menu shows all of the paper types that the printer supports. For more information about the **Type is:** drop-down menu settings, see the **Type is:** in the [Type is: on page 93](#) section of this chapter.

First Page, Other Pages, and Last Page options

Use these options to select an alternative paper size, type, or source for the first page, other pages, or last page of a document. The following illustration shows the appearance of the **Paper Options** group box when the **Use Different Paper/Covers** check box is selected.

Figure 4-8 First Page, Other Pages, and Last Page options



The **First Page**, **Other Pages**, and **Last Page** options are as follows:

- **Size is:** drop-down menu
- **Source is:** drop-down menu
- **Type is:** drop-down menu

The **Size is:** driver setting for the first page applies to the entire print job. When this is set, the setting becomes unavailable for all the other **Use Different Paper/Covers** options.

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side-up. The document preview image appears in the upper-right corner of the **Paper/Quality**, **Effects**, and **Finishing** tabs.

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

Print Quality

The **Print Quality** group box contains the **Print Quality** drop-down box and the **EconoMode** check box.

The default setting for **Print Quality** is **FastRes 1200**.

This setting controls resolution, which refers to the number of dots per inch (dpi) used to print the page. As resolution is increased, the quality (clarity and visual appeal) of print on the page is improved. However, higher resolution might also result in longer printing times. The following **Print Quality** options are available in the drop-down box:

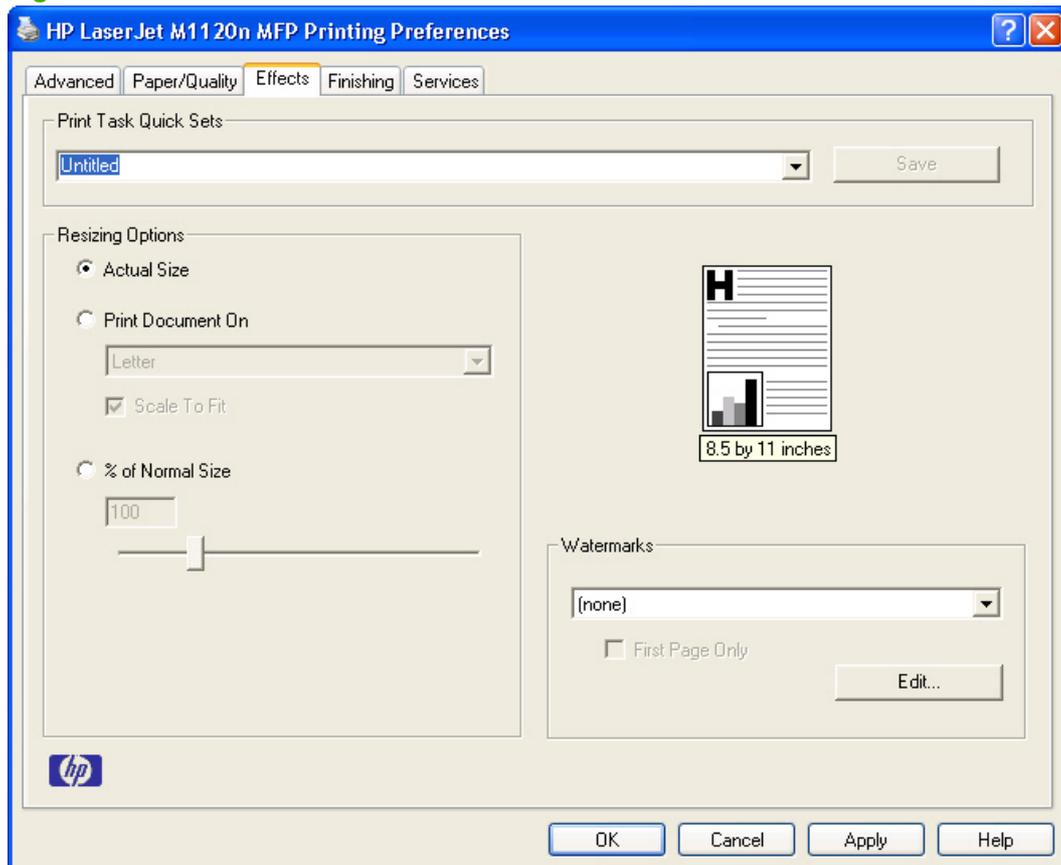
- **FastRes 1200**
- **600 dpi**

Select the **EconoMode** check box in conjunction with any of the print quality settings. When using EconoMode, the device uses less toner on each page. Using this option might extend the life of the print cartridge and can lower the cost per page, but also reduces print quality. Using the EconoMode feature with non-HP print cartridges can result in toner spillage or device damage.

Effects tab features

Use the **Effects** tab to create unique paper effects such as scaling and watermarks. The following illustration shows the **Effects** tab.

Figure 4-9 Effects tab



The **Effects** tab contains the following controls:

- [Print Task Quick Sets](#)
- [Resizing Options](#)
- [Document preview image](#)
- [Watermarks](#)

Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that are found on all other **Printing Preferences** driver tabs. Print Task Quick Sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see [Print Task Quick Sets on page 89](#) in the **Paper/Quality** tab section of this guide.

Resizing Options

The **Resizing Options** group box consists of the following controls:

- [Actual Size](#)
- [Print Document On](#)
- [Scale to Fit](#)
- [% of Normal Size](#)

Actual Size

Select the **Actual Size** option to print the page at normal size. This option is the default.

Print Document On

Select the **Print Document On** option to format the document for one paper size and then print the document on a different paper size, with or without scaling the image to fit the new paper size.

The **Print Document On** control is disabled by either of the following conditions:

- The **% of Normal Size** value is not 100.
- The **Pages per Sheet** value (on the **Finishing** tab) is not 1.

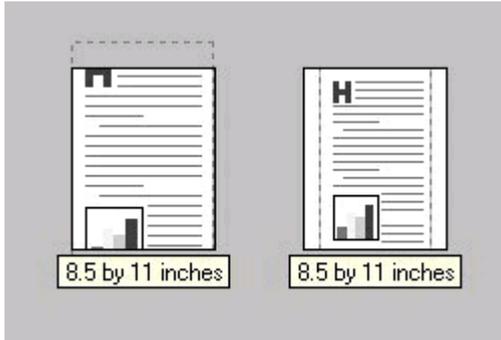
When **Print Document On** is selected, the drop-down menu shows the available paper sizes. The list contains all of the standard paper sizes that are supported by the selected paper source and any custom sizes that have been created. When **Print Document On** is selected, **Scale to Fit** is automatically selected.

Scale to Fit

The **Scale to Fit** option box specifies whether each formatted document page image is scaled to fit the target paper size. By default, **Scale to Fit** is selected when **Print Document On** is selected. If the setting is turned off, then the document page images will not be scaled, and are instead centered at full size on the target paper. If the document size is larger than the target paper size, then the document image is clipped. If it is smaller, then it is centered within the target paper. The following illustration shows

preview images for a document that is formatted for legal-size paper and where the **Print Document On** check box is selected and the target size is specified as **Letter**.

Figure 4-10 Preview images - Legal on Letter; Scale to Fit off (left) and on (right)



When the size for which the document is formatted (that is, the logical size) differs from the target size, the preview image uses a dashed gray line to show the boundaries of the logical page in relation to the target page size.

% of Normal Size

The **% of Normal Size** option provides a slider bar to use for scaling the percentage setting. The default setting in the entry box is 100% of normal size. Normal size is defined as the paper size that is selected within the driver or what the driver receives from the software program (if the software program does not negotiate the paper size with the driver). The driver scales the page by the appropriate factor and sends it to the device.

The limits of the range are from 25% to 400%, and any values outside the range are adjusted to those limits as soon as the focus is removed from the control (that is, when the **Tab** key is pressed or another control is selected).

Any change to the scale also changes the page preview, which increases or decreases from the upper-left corner of the preview.

The slider bar controls the scale directly. The value in the edit box changes as the scroll bar indicator is dragged, and the preview image is updated to the new image scale. Each click on the scroll bar arrows increases or decreases the scale by 1%. Each click on the slider bar affects the scale by 10%.

You cannot achieve an exact value by dragging the scroll bar indicator at the default Microsoft Windows resolution; use the scroll bar indicator to approximate the value, and then use the scroll bar arrows to refine the value.

The following settings disable **% of Normal Size**:

- **Print Document On** (on the **Effects** tab) is selected
- **Pages per Sheet** (on the **Finishing** tab) is not 1

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side up. The document preview image appears in the upper-right corner of most **Printing Preferences** driver tabs (the **Paper/Quality**, **Effects**, and **Finishing** tabs).

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

Watermarks

Use the **Watermarks** feature to select a watermark, create a custom watermark (text only), or edit an existing watermark. The following watermarks are preset in the driver.

- [Current Watermarks](#)
- [Watermark Message](#)
- [Message Angle](#)
- [Font Attributes](#)

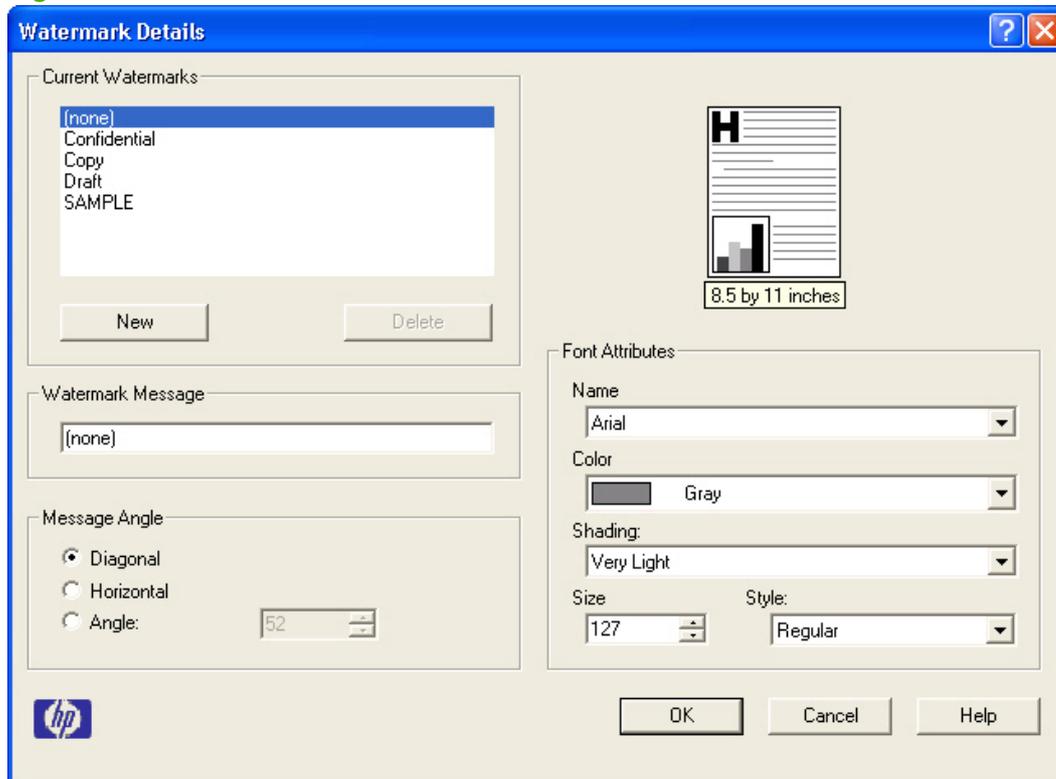
The drop-down menu shows alphabetically sorted watermarks that are currently available on the system plus the string "(none)", which indicates that no watermark is selected. This is the default setting. Any watermark selected from this list appears in the preview image.

When the **First Page Only** check box is selected, the watermark is printed only on the first page of the document. The **First Page Only** check box is disabled when the current watermark selection is "(none)".

Watermarks are applied to logical pages. For example, when **Pages per Sheet** is set to "4" and **First Page Only** is turned off, four watermarks appear on the physical page (one on each logical page).

Click **Edit**, and the **Watermark Details** dialog box appears.

Figure 4-11 Watermark Details



The dialog box shows a preview image and provides options for creating a new watermark and controlling the message angle and font attributes.

Click **OK** to accept all of the changes that are made in the **Watermark Details** dialog box. However, clicking **Cancel** does not cancel all of the changes. If you make changes to a watermark, and then select a different watermark or click **New**, all of the changes made to the previous watermark are saved, and only the current, unsaved changes can be canceled.

Current Watermarks

The **Current Watermarks** group box contains a list of available watermarks, both the predefined watermarks made available in the driver and any new watermarks that have been created.

To create a new watermark, click **New**. The new watermark appears in the **Current Watermarks** list and in the **Watermark Message** edit box as "&Units" until you name it. The name typed in the **Watermark Message** field appears in the **Current Watermarks** group box in the **Watermark Details** dialog box and in the **Watermarks** group box on the **Effects** tab.

To name the new watermark, type the selected watermark text in the **Watermark Message** edit box. To delete a watermark, select the watermark in the **Current Watermarks** list and click **Delete**. A warning appears asking whether you are sure you want to delete the selected item. Click **Cancel** if you want to keep the watermark. Click **OK** to delete the selected watermark.

 **NOTE:** No more than 30 watermarks can be saved in the **Current Watermarks** list at one time. When the limit of 30 watermarks is reached, the **New** button is disabled.

To edit an existing watermark, select the watermark in the **Current Watermarks** list. If you change the **Watermark Message** for that watermark, you are, in effect, creating a new watermark.

Watermark Message

The **Watermark Message** is also the name that identifies the watermark in the **Current Watermarks** list, except when more than one watermark has the same message. For example, several different watermarks can contain the message DRAFT, each with a different typeface or font size. When this occurs, the string is appended with a space, a pound sign, and a number (for example, **Draft #2**). When a number is added, the number two is used first, but if the resulting name is also in the list, then the number increases until the name is unique (**Draft #3**, **Draft #4**, and so on).

Message Angle

Use the controls in the **Message Angle** group box to print the watermark in different orientations in relation to the text on the page. The settings are **Diagonal**, **Horizontal**, or **Angle** (custom). The default is **Diagonal**. All three settings automatically center the watermark string within the page; the selection of a particular setting affects only the angle of the string placement. **Diagonal** places the text along a line that spans the lower-left to upper-right corners of the page. **Horizontal** places the text along a line that spans the mid-left and mid-right edges of the page. **Angle** places the text at the specified angle across the page.

Font Attributes

Use the controls in the **Font Attributes** group box to change the font and the shading, size, and style of the font.

The **Font Attributes** group box contains the following controls:

- **Name** drop-down menu
- **Color** drop-down menu
- **Shading** drop-down menu
- **Size** spin box
- **Style** drop-down menu

Name

The **Name** drop-down menu lists fonts that are currently installed on the system. The default is language-dependent.

Color

The **Color** option is a fixed, unalterable set of color choices for the watermark: **Gray**.

Shading

The default **Shading** setting for new and preset watermarks is **Very Light**. The following range of shades is available from the **Shading** drop-down menu:

- **Lightest**
- **Very Light** (default)
- **Light**
- **Medium Light**
- **Medium**
- **Medium Dark**
- **Dark**
- **Very Dark**
- **Darkest**

These values represent the intensity of the gray that is used. A choice of **Light** produces a lightly saturated gray watermark. A choice of **Lightest** produces the lightest shade of watermark; **Darkest** produces a black watermark.

Size

Font sizes from 1 to 999 points are available from the **Size** menu. The default point size is language-dependent. The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu.

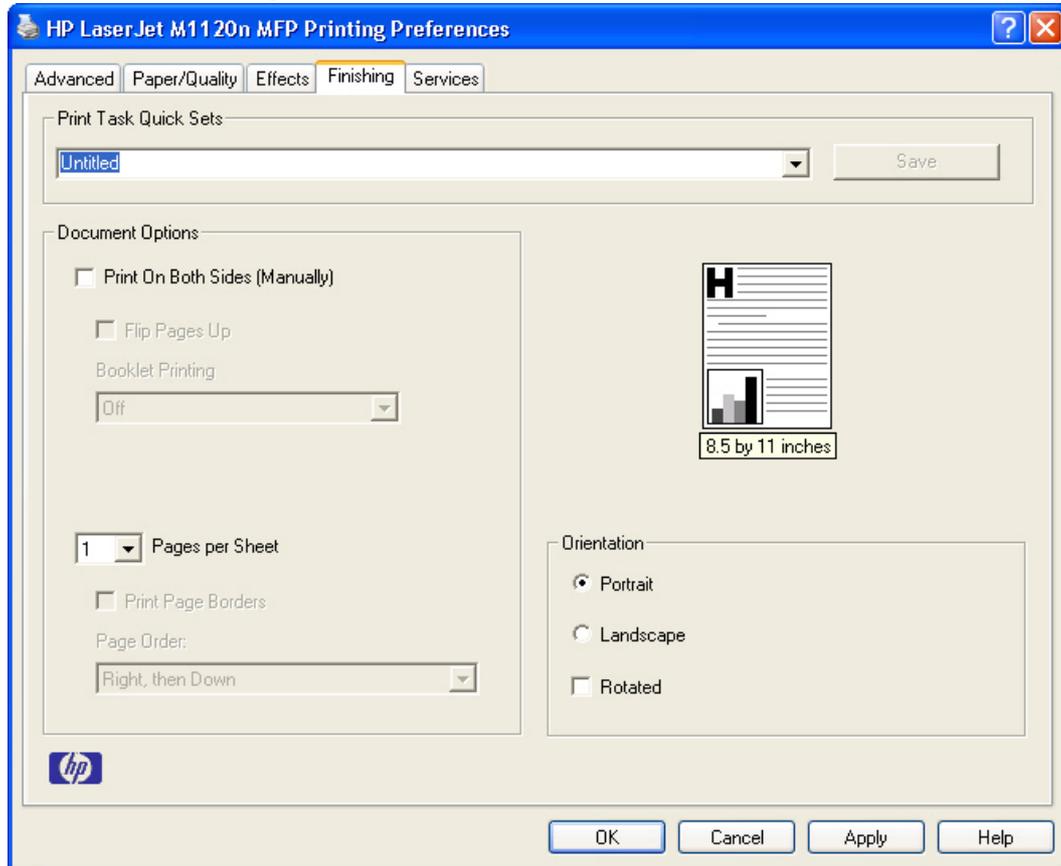
Style

The choice of **Regular**, **Bold**, **Italic**, and **Bold Italic** is available from the **Style** drop-down menu. The default **Style** setting for new and preset watermarks is **Regular**.

Finishing tab features

Use the **Finishing** tab to print booklets and control the paper output. The following illustration shows the **Finishing** tab.

Figure 4-12 Finishing tab



The **Finishing** tab contains the following controls:

- [Print Task Quick Sets](#)
- [Document Options](#)
- [Document preview image](#)
- [Orientation](#)

Print Task Quick Sets

Use the **Print Task Quick Sets** control to store the current combination of driver settings that appear on all of the other **Printing Preferences** driver tabs. Print Task Quick Sets are either preset or user-defined printing specifications, such as paper size and pages per sheet. For more information, see [Print Task Quick Sets on page 89](#) in the **Paper/Quality** tab section of this chapter.

Document Options

The **Document Options** group box contains the following controls:

- [Print on Both Sides](#)

- [Flip Pages Up](#)
- [Booklet layout](#)
- [Pages per Sheet](#)
- [Print Page Borders](#)
- [Page Order](#)

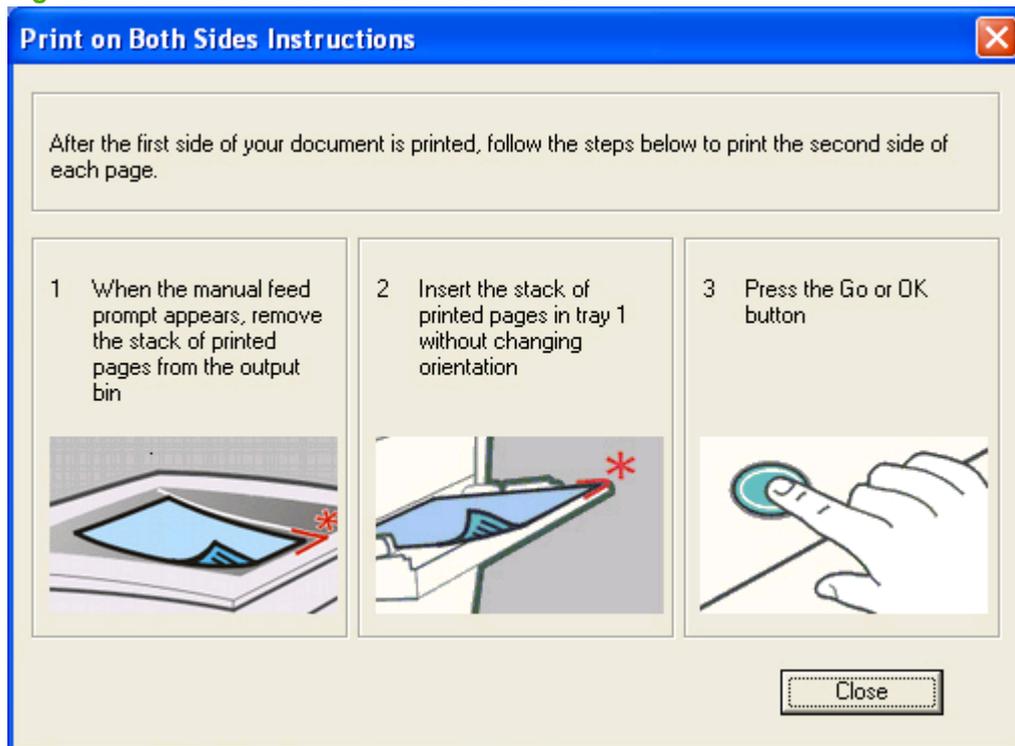
Print on Both Sides

 **NOTE:** The **Print on Both Sides** check box is unavailable if the **Allow Manual Duplexing** option is disabled on the **Device Settings** tab in the **Properties** tab set.

The default setting for the **Print on Both Sides** option is off (not selected). Selecting **Print on Both Sides** makes the **Flip Pages Up** and **Booklet Printing** options available.

When a print job is sent to the device with the **Print on Both Sides** option selected, the even pages print, and then the following dialog box appears with instructions to complete the manual duplex process.

Figure 4-13 Print on Both Sides Instructions



Instructions for manually printing on both sides

Follow these steps to manually print on both sides.

1. Click **File**, click **Print**, and then click **Properties**.
2. Click the **Finishing** tab, and then click the **Print on Both Sides** check box. Click **OK** to continue.
3. When the even-numbered pages have printed, the **Load Tray (X) - Press OK** message appears on the device control panel and the **Print on Both Sides Instructions** dialog box appears on the computer screen.
 - a. Without changing the orientation, remove the paper stack from the output bin. Do not discard blank sheets.
 - b. Insert the paper stack into the same input tray that the even-numbered pages (first sides) were printed from, maintaining the same orientation (that is, with the same edge of the page feeding into the device first).
 - c. Press the **OK** button to print the odd-numbered pages.

Flip Pages Up

The **Flip Pages Up** check box, enabled only when **Print on Both Sides** is selected, is used to specify the duplex-binding option. By default, the **Flip Pages Up** check box is *not* selected. The following table demonstrates the results of selecting this box, depending on the paper orientation selected on the **Finishing** tab.

Table 4-2 Page orientation

Orientation (Finishing tab)	Flip Pages Up selected	Flip Pages Up not selected
Portrait	Short-edge binding	Long-edge binding
Landscape	Long-edge binding	Short-edge binding

When **Print on Both Sides** is selected, the document preview image changes to show a spiral binding along either the left edge or the top edge of the page. In addition, a folded-over corner appears in the lower-right portion of the preview image, indicating that printing occurs on the back side. An arrow on the folded-over corner points in the direction that the pages would be flipped if they were bound together.

Short-side binding is for print jobs with pages that read by flipping over like the pages of a notepad. Long-side binding is for print jobs with pages that read by turning like the pages of a book.

Booklet layout

The **Booklet Layout** drop-down menu, visible when **Print on Both Sides** is selected, offers choices that are based on the current paper size. The default setting for the **Booklet Printing** drop-down menu is **Off**.

- **Left Edge Binding**
- **Right Edge Binding**

Selecting **Left Edge Binding** or **Right Edge Binding** changes the document preview image to show the location of the binding. If the **Pages per Sheet** setting is on the default setting of 1, it automatically changes to **2 pages per sheet**. Changing the **Pages per Sheet** setting manually to 4, 6, 9, or 16 pages per sheet disables the booklet setting.

The **Booklet Layout** setting is disabled when A6 or B6 (JIS) is selected as the paper size, and an incompatibility-error message appears when you click **OK** to close the driver.

Book and booklet printing

The HP LaserJet M1120 MFP Series supports book and booklet printing.

A book is a print job consisting of at least two pages that can have a different paper type for the first page, other pages, or back cover. Use the **First Page**, **Other Pages**, and **Back Cover** settings on the **Paper/Quality** tab (available when you select the **Use Different Paper** check box) to select different paper for these pages.

A booklet is a print job that places two pages on each side of a sheet that can be folded into a booklet that is half the size of the paper type. Use the **Booklet Layout** drop-down menu on the **Finishing** tab to control booklet settings.

Printing a Booklet

Complete the following steps to print a booklet.

1. Click **File**, click **Print**, and then click **Properties**.
2. Click the **Device Settings** tab and select the **Print on Both Sides** check box.
3. In the **Booklet Layout** drop-down menu, select the type of booklet printing that you want. For example, **Right Edge Binding**.
4. Click **OK** in the print driver.
5. Click **OK** in the **Print** dialog box to print.

Printing a book

You can print a book in which the first page, other pages, and back cover have different paper types. For more information, see the [Paper/Quality tab features on page 89](#) section of this chapter.

Pages per Sheet

Use the **Pages per Sheet** option to select the number of pages to print on a single sheet of paper.

If you print more than one page per sheet, the pages appear smaller and are arranged on the sheet in the order that they would otherwise be printed. The **Pages per Sheet** drop-down menu provides six settings:

- **1 page per sheet** (default)
- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**

 **NOTE:** Selecting an option other than **2 pages per sheet** makes booklet printing unavailable.

Print Page Borders

Related controls indented beneath the **Pages per Sheet** edit box are **Print Page Borders** and **Page Order**, which become active when **Pages per Sheet** is greater than 1.

Print Page Borders sets a line around each page image on a printed sheet to help visually define the borders of each logical page.

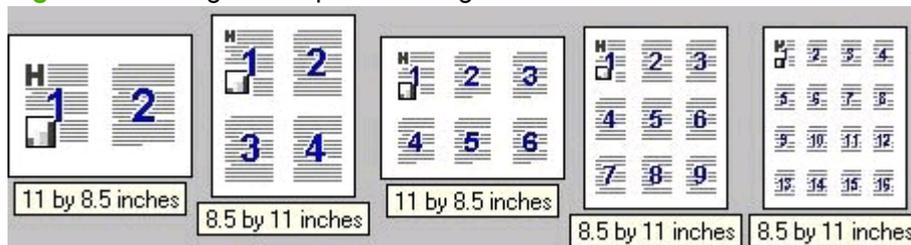
Page Order

The **Page Order** drop-down menu contains four selections:

- **Right, then Down**
- **Down, then Right**
- **Left, then Down**
- **Down, then Left**

The preview document image changes to reflect alterations in these settings, as shown by the examples in the following illustration.

Figure 4-14 Page-order preview images



- **2 pages per sheet**
- **4 pages per sheet**
- **6 pages per sheet**
- **9 pages per sheet**
- **16 pages per sheet**

Document preview image

The document preview image is a line-drawn image of a page that represents graphics and text. The document preview image is always oriented so that the contents of the page are right-side up. The document preview image appears in the upper-right corner of most **Printing Preferences** driver tabs (the **Paper/Quality**, **Effects**, and **Finishing** tabs).

Switching between tabs does not change the location or appearance of the document preview image. Move the mouse over the document preview image, and the mouse cursor changes from an arrow to a gloved hand. Toggle between portrait and landscape page orientation by clicking on the image.

Orientation

The **Orientation** group box contains the following options:

- **Portrait** option button
- **Landscape** option button
- **Rotate 180 degrees** check box

Portrait option button

Select this feature to print the document in **Portrait** orientation. This is the default setting.

Landscape option button

Select this feature to print the document in **Landscape** orientation.

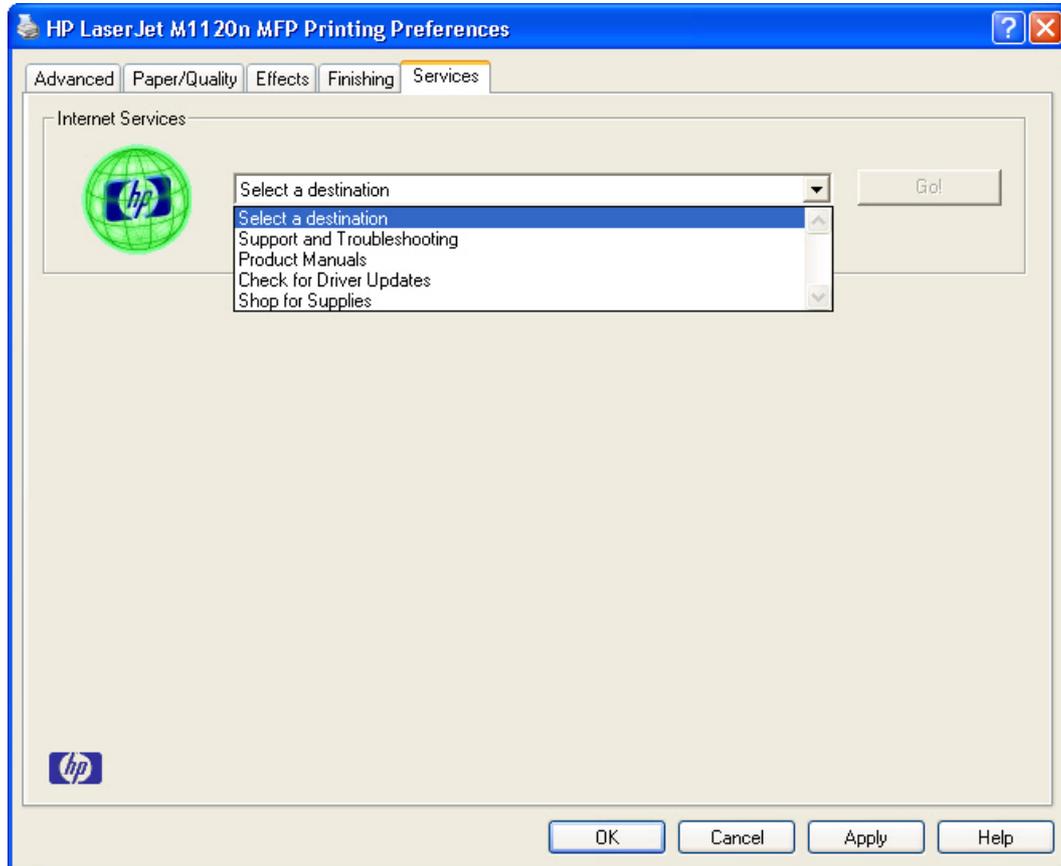
Rotate by 180 degrees check box

Select this feature to rotate the document image on the paper 180°. For example: If the return address on an envelope is smudged, try using this setting and feed the envelope so that the return address area is fed into the device first.

Services tab features

Use the **Services** tab to gain access to Internet services for the device. The following illustration shows the **Services** tab.

Figure 4-15 Services tab



The **Services** tab contains the **Select a destination** drop-down menu with the following selections:

- **Support and Troubleshooting**
- **Product Manuals**
- **Check for Driver Updates**
- **Order Supplies**

If you have Internet access, select any of these items and then click **Go!** to open the corresponding HP Web page.

Properties tab set

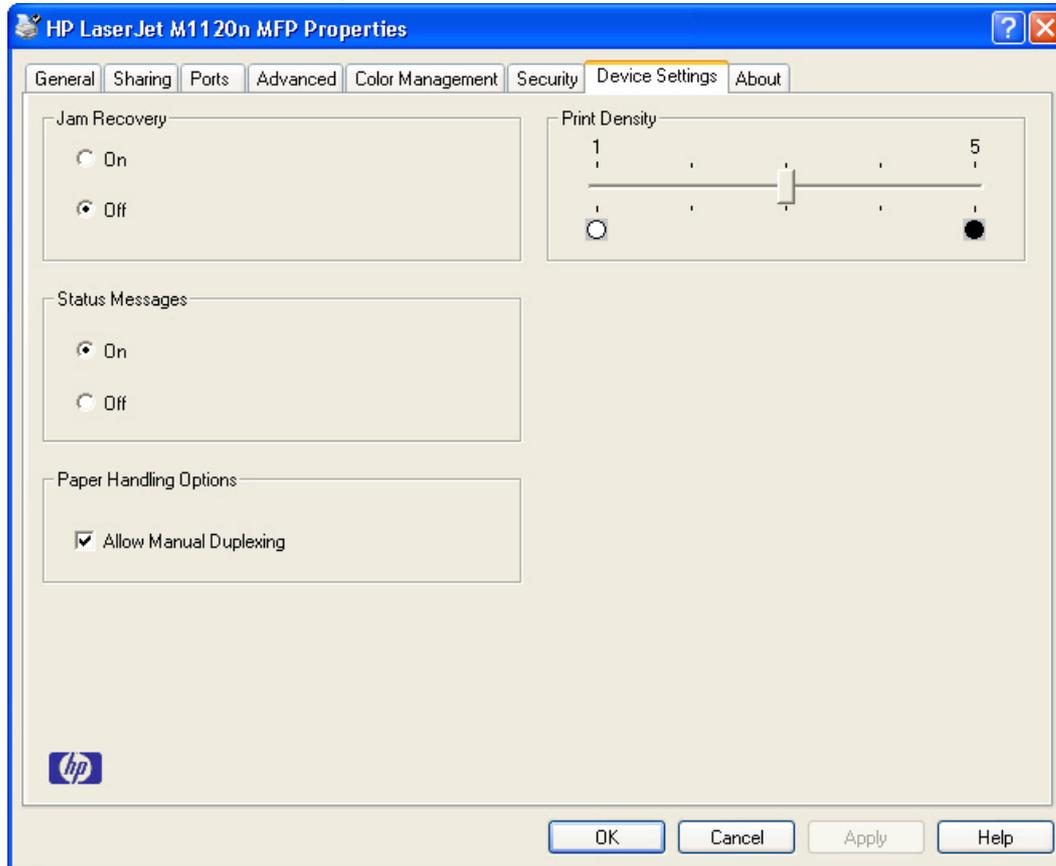
Topics:

- [Device Settings tab features](#)
- [About tab features](#)

Device Settings tab features

Use the **Device Settings** tab to control driver behavior and driver connections. The following illustration shows the **Device Settings** tab.

Figure 4-16 Device Settings tab



Jam Recovery

Select **On** to reprint a page if a paper jam occurs. Select **Off** to not reprint a page if a paper jam occurs. **Off** is the default setting.

 **NOTE:** Jobs print faster when **Off** is selected.

Print density

Use this control to specify how much toner is put on the page. **3** is the default setting.

Status Message

Select **On** to allow error messages to display on the computer screen during error conditions. Select **Off** to not allow error messages to display on the computer screen during error conditions. **On** is the default setting.

 **NOTE:** The paper-out message still appears when **Off** is selected.

Courier Font Type

Select **Regular** to print any text by using TrueType Courier or Courier New with normal weight. Select **Dark** to print any text by using TrueType Courier or Courier New with a dark weight but without changing the font attributes in a program. **Regular** is the default setting.

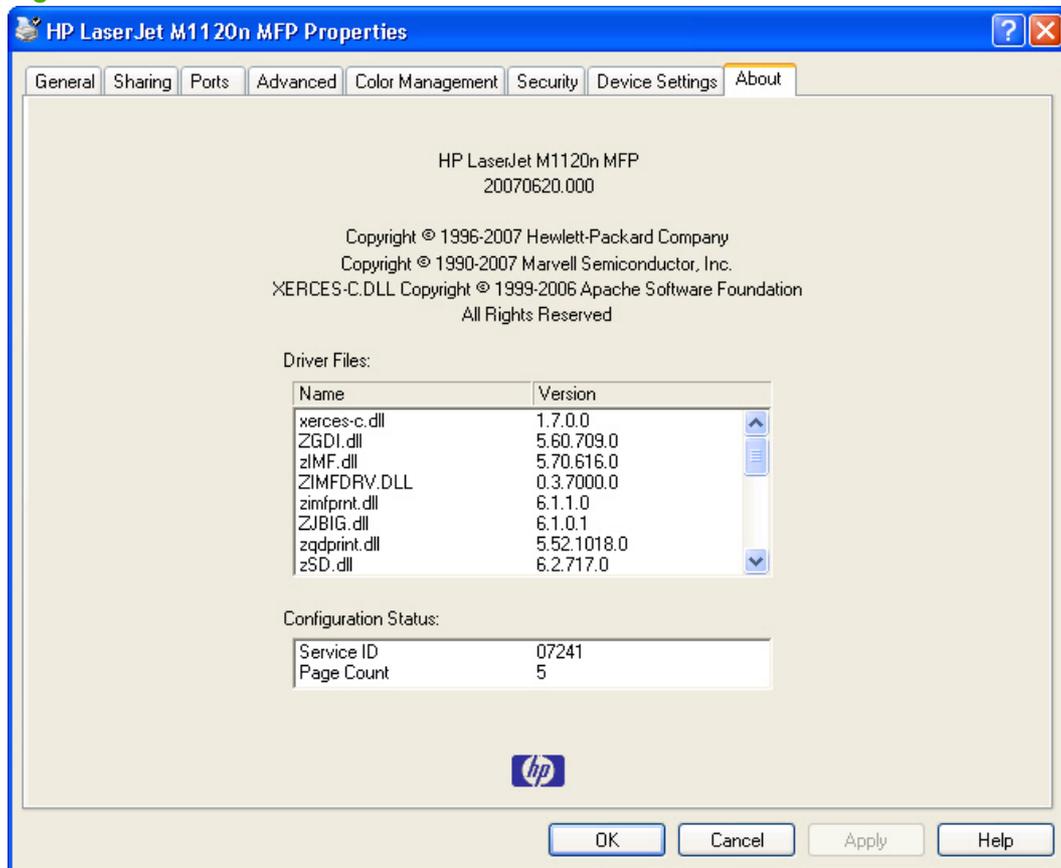
Allow Manual Duplexing

Use this setting to allow printing on both sides of a page using manual two-sided printing. This option is selected by default.

About tab features

The **About** tab provides detailed information about the driver. It contains an overall build number after the model name, and specific information about each of the components. The information varies according to the HP LaserJet M1120 MFP Series model, driver, date, and version numbers. The following illustration shows the **About** tab.

Figure 4-17 About tab



Driver Files:

The **Driver Files:** box lists driver installation file names and their version numbers.

Configuration Status:

The **Configuration Status:** box lists the Service Id number and the page count.

5 Macintosh software and utilities

Introduction

The HP LaserJet M1120 MFP Series comes with printing software and installers for Apple Computer, Inc., Macintosh operating systems.

Topics:

- [Macintosh printing-system software](#)
- [Macintosh install and uninstall instructions](#)
- [Macintosh remote firmware updates](#)
- [TWAIN driver user interface \(Macintosh\)](#)

Macintosh printing-system software

The HP LaserJet M1120 MFP Series printing system for Macintosh is composed of the Printer Setup Utility (Mac OS X V10.3, v10.4 and later) and HP-created printer dialog extension (PDE) files. The driver uses these files to determine the features and postscript commands that the device supports. The following components are installed:

- The HP LaserJet Installer for Mac OS X V10.3, v10.4 and later
- LIBRARY/PRINTERS/PPDS/CONTENTS/RESOURCES/LANGUAGE.LPROJ (for Mac OS X)

 **NOTE:** Installation CD version 1.0 does *not* support the Intel-based Macintosh operating system.

Topics:

- [Additional software](#)
- [System requirements](#)
- [Availability](#)

Additional software

The following software utilities also install with the HP LaserJet M1120 MFP Series software for Macintosh systems.

- **HP Director.** Use the HP Director to gain access to product-specific software, default settings, status, and onscreen Help. By using the HP Director, you can scan various types of originals, make copies, configure and maintain the device, and see user documentation.
- **HP Scan.** Use the HP Scan function to select scan options and then store the image to a file. Open the scanning software from the HP LaserJet Director.
- **HP Setup Utility.** Use the HP Setup Utility to configure and manage the HP printers installed on your system.

System requirements

- G3, G4, or G5 PowerPC processor
- Mac OS X V10.3 and later, with 128 MB RAM and 50 MB of available hard-disk space
- CD-ROM drive or Internet connection

Availability

This document provides information about the availability of the HP LaserJet M1120 MFP Series printing-system software and related software and firmware. Printing-system software on a CD is available from HP fulfillment centers.

Topics:

- [Software on the Web](#)
- [In-box printing-system software CDs](#)

Software on the Web

All software that is contained on the installation CD is also available on the Web.

Web deployment is the preferred method for obtaining the latest software. The Web site offers an option for automatic e-mail notification about new software releases.

 **NOTE:** This document describes drivers that are shipped with the printing-system software CD. This document does *not* describe any drivers that support personnel might release.

Topics:

- [Macintosh software](#)
- [Software component availability](#)

Macintosh software

The HP LaserJet M1120 MFP Series software is available for download at the following Web site:

www.hp.com/go/ljm1120_software

Software component availability

The following HP LaserJet software components are available:

- PDE files for Mac OS X V10.3 and later

In-box printing-system software CDs

The software CD for the HP LaserJet M1120 MFP Series contains the files for installing the software on the computer.

Topics:

- [Macintosh partition](#)
- [CD versions](#)

Macintosh partition

The HP LaserJet M1120 MFP Series software CD is divided into two partitions, one for each of the following operating systems:

- MS Windows
- Macintosh

The Macintosh software files are grouped by language and reside in the following directories:

- Mac OS X (the HP LaserJet Installer)
- PDF (manuals)

CD versions

The software CD for the HP LaserJet M1120 MFP Series contains the files for installing the software on the computer.

The HP LaserJet M1120 MFP Series software CD (Part No. CB537-60120) is available in a single version which contains software in various languages:

- DE = German (Deutsch)
- EN = English
- ES = Spanish (Español)
- FR = French (Français)
- IT = Italian (Italiano)
- NL = Dutch (Nederland)

Macintosh install and uninstall instructions

The HP LaserJet M1120 MFP Series comes with software and installers for MS Windows and Apple Computer, Inc., Macintosh systems. The following information includes procedures for installing and removing the HP LaserJet M1120 MFP Series printing-system software for Macintosh operating systems.

Topics:

- [Macintosh component descriptions](#)
- [Install the Macintosh software](#)
- [Uninstall](#)

Macintosh component descriptions

The device includes the following software for Macintosh computers:

- PDEs for Mac OS X V10.3 and later

Topics:

- [PDEs](#)
- [Install notes](#)
- [Online help](#)
- [Screen fonts](#)

PDEs

Printer Dialog Extensions (PDEs) are code plug-ins (for Mac OS X V10.3 and later only) that provide access to device features, such as number of copies, duplexing, and quality settings.

Install notes

This text file contains important information about device features, instructions for installing the printing-system software, and technical assistance.

Online help

This HTML-based help system replaces the Apple Guide help system that was provided with Mac OS 9.x HP devices. The help system is in English only, and can be viewed through a browser or in the Macintosh OS Help Center.

Screen fonts

The software for Macintosh operating systems no longer includes a font installer. The HP LaserJet M1120 MFP Series printer uses previously installed system fonts when it is installed on a Macintosh computer.

Install the Macintosh software

On a Macintosh computer, the installation procedures are basically the same for a network administrator, a network client, or a single user. Install the software on any computer that has access rights to the device.

Topics:

- [General installation for Macintosh operating systems](#)
- [Installation dialog-box options for Macintosh](#)
- [Device setup](#)

General installation for Macintosh operating systems

1. Insert the Macintosh software CD into the CD-ROM drive.

 **NOTE:** If the CD screen does not open automatically, double-click the **HP LaserJet M1120 MFP** CD-ROM icon on the desktop to open the CD-ROM window.

2. Double-click the Mac OS X icon.

 **NOTE:** The **Continue** button appears only after you type the "admin" password in the **Authenticate** dialog box.

3. The main **Installer** dialog box appears. Click **Install** and then follow the onscreen instructions to complete the software installation.

 **NOTE:** Be patient when you are installing the software. The installer must perform an initial search of the computer for up to 1 minute. During this time the installer might appear to be stalled.

4. When software installation is complete, click **Restart**.

5. The HP Setup Utility launches automatically. Continue with the steps for setting up a device in the Device Setup section.

The software program used to finish setting up the device varies by operating system. The following table shows the print setup tools that are available.

Table 5-1 Adding a printer in Macintosh operating systems

Operating System	Print Center	Printer Setup Utility
Mac OS X V10.3.9		x
Mac OS X V10.4.1	x	x

Installation dialog-box options for Macintosh

The following sequence describes the dialog box options that appear during the HP LaserJet M1120 MFP Series software installation on Macintosh systems.

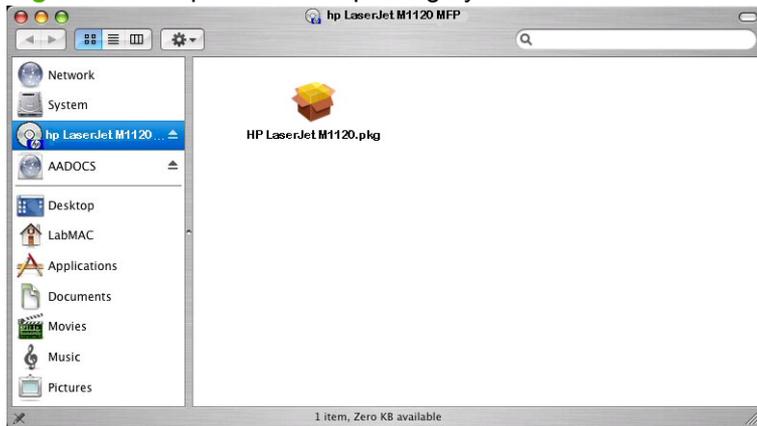
To begin the installation, insert the HP LaserJet M1120 MFP Series software CD into the CD-ROM drive.

Figure 5-1 Step 1 - Insert the HP LaserJet M1120 MFP Series software CD



Double-click the **HP LaserJet M1120 MFP** icon that appears on the desktop.

Figure 5-2 Step 2 - Run the printing-system software CD



Double-click the **HP LaserJet M1120 MFP** folder.

Figure 5-3 Step 3 - Main CD screen



Double-click the **HP LaserJet M1120 MFP Series Installer.app**.

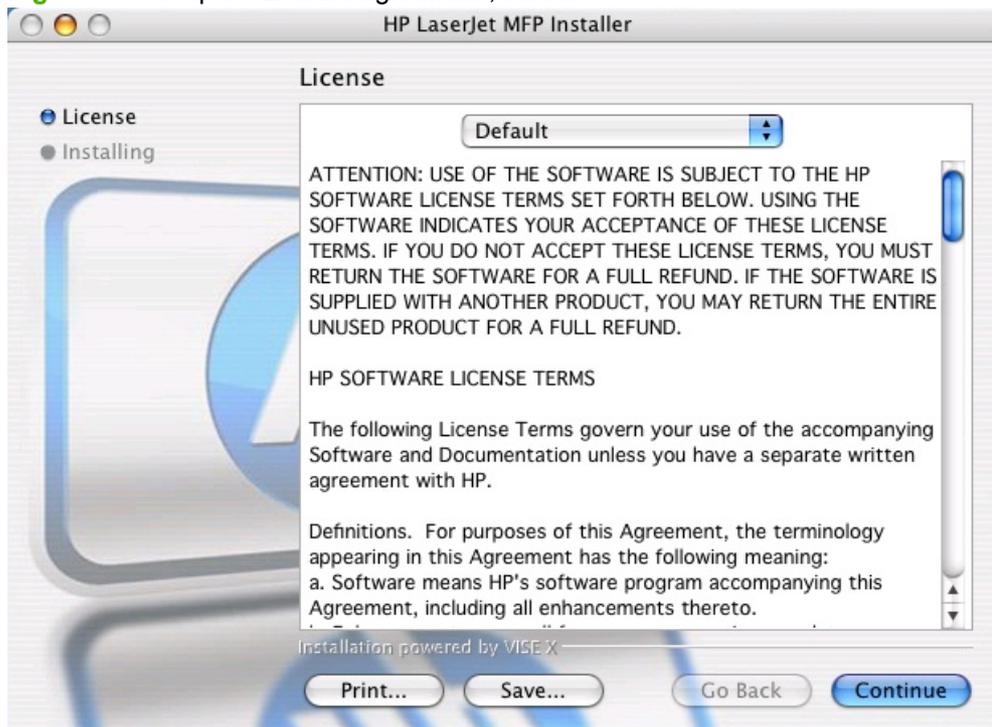
Figure 5-4 Step 4 - Authenticate



Type the username and the password that provides administrator privileges, and then click **OK** to continue.

Click **Cancel** to close the installer.

Figure 5-5 Step 5 - License agreement, screen 1



In the drop-down menu at the top of the screen, select the language for the installation.

Print... opens the **Page Setup** dialog box for your default printer so that you can print a copy of the license agreement.

Save opens the system **Save** dialog box so that you can save the text of the software license agreement to disk.

Continue presents the option to agree or disagree to the terms of the software license agreement.

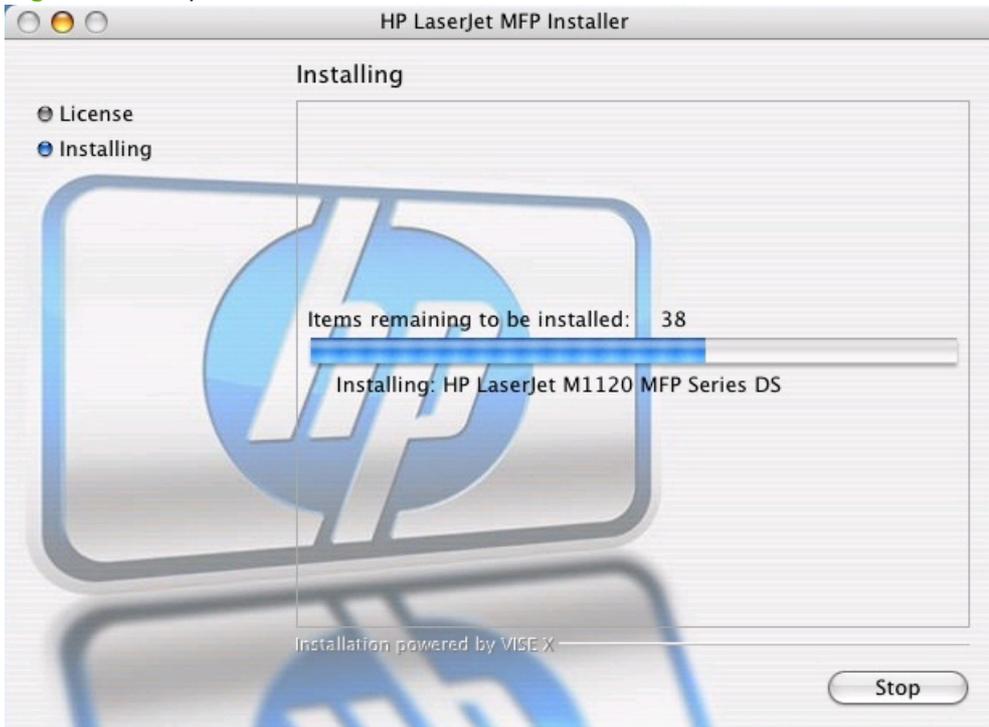
Go Back returns you to the main CD screen.

Figure 5-6 Step 6 - Software License Agreement, screen 2



Click **Agree** to continue the installation.

Figure 5-7 Step 7 - Install files



The **Installing** dialog box appears, showing the progress of the installation.

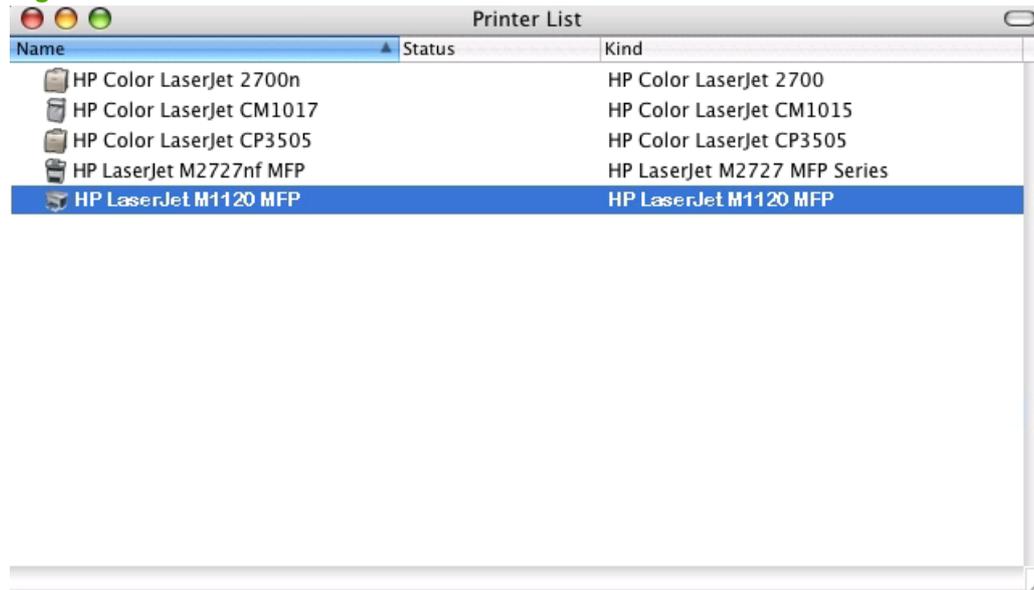
Device setup

After installing the software in Macintosh operating systems, the device must be set up.

1. In the **Applications** folder, open the **Utilities** folder, and then run the **Printer Setup Utility**. The **Printer List** appears.
2. Connect the USB cable to the computer and the device, and then turn on the device to continue the setup.

3. The device appears in the **Printer List**, as shown in the following figure.

Figure 5-8 Printer List screen



Uninstall

Topics:

- [Uninstall the Macintosh software](#)

Uninstall the Macintosh software

To uninstall the Macintosh software, do the following:

1. In the **Applications** folder, open the **Hewlett-Packard** folder, and then double-click **Uninstaller**.
2. Follow the on-screen instructions to remove the software.

 **NOTE:** The uninstaller removes all software components except for the print driver. See Manual uninstall for Macintosh to remove the print driver.

Macintosh remote firmware updates

Topics:

- [Remote firmware update by using the HP Printer Utility](#)

Remote firmware update by using the HP Printer Utility

Make sure that the tools and files that are necessary for the update are available. Get the HP Printer Utility and the M1120 MFPPFW.RFU file, which is the firmware file for the device. The HP Printer Utility is a software program that is available only for Mac OS X V10.3 and later.

The HP Printer Utility and the firmware file (M1120 MFPPFW.RFU) can be downloaded from the following Web site:

http://www.hp.com/go/ljM1120_firmware

Get the firmware file and the HP Printer Utility, and then begin the update process. Complete the following steps:

1. Open the HP Printer Utility.
2. Select **Update Firmware**, click **Choose**, browse to firmware upgrade file, and then click **Open**.
3. On the **Update Firmware** screen, click **Update**.

 **NOTE:** If an error message appears on the screen indicating that the device is offline, verify that the device is turned on. If it is, ignore the message. The **Updating** screen appears and the update proceeds as expected.

4. The update process can take several minutes. Let the process finish without further interaction with the device or the computer. The messages described in the section [Device messages during the firmware update on page 133](#) appear on the control panel.

 **NOTE:** The device automatically turns off and then on again to activate the update; this can happen more than once. At the end of the update process, the **READY** message appears on the control panel. Do *not* turn off the device or interfere with the update until this message appears.

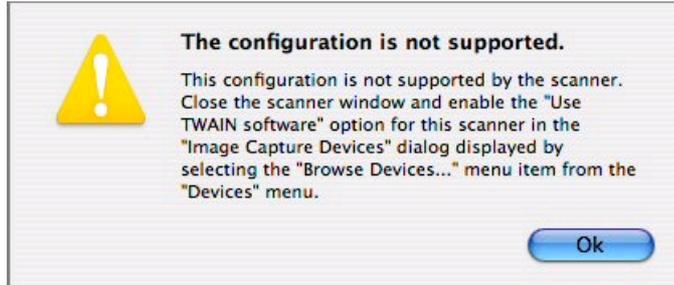
5. Print a configuration page and verify that the firmware revision number matches the revision of the current update.

TWAIN driver user interface (Macintosh)

To scan a page:

1. Place the page to be scanned on the flatbed scanner
2. Open the Macintosh Image Capture program. The **The configuration is not supported.** screen appears.

Figure 5-9 The configuration is not supported. screen (Macintosh)

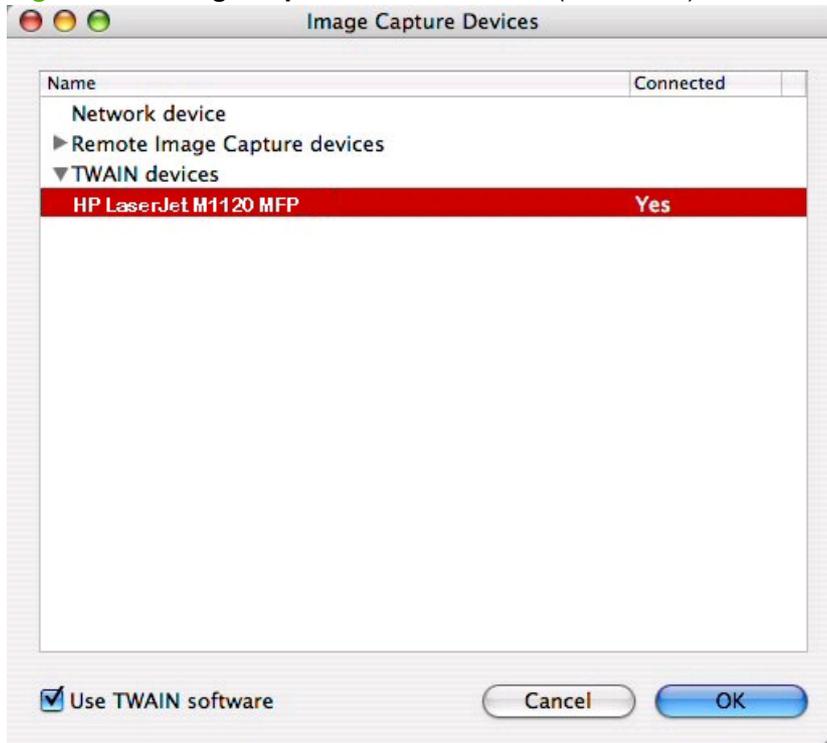


Click **OK**.

NOTE: The **The configuration is not supported.** screen *only* appears the first time that you scan an image using the TWAIN software.

3. In the toolbar, click **Devices**, and then click **Browse devices**. The **Image Capture Devices** screen appears.

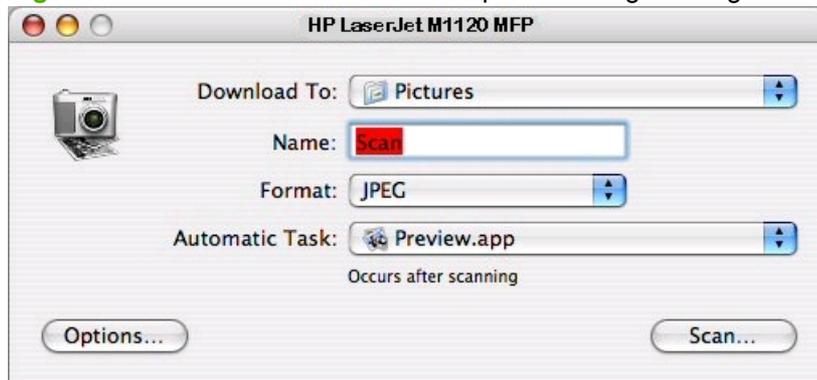
Figure 5-10 Image Capture Devices screen (Macintosh)



Highlight the device name, select the **Use TWAIN software** option, and then click **OK**.

4. In the toolbar, click **Devices**, and then click **Browse devices**. The **Image Capture Devices** screen appears again. Highlight the device name. In the toolbar, select **Options**, and then click **Scan...**. The HP LaserJet M1120 MFP preview image settings screen appears.

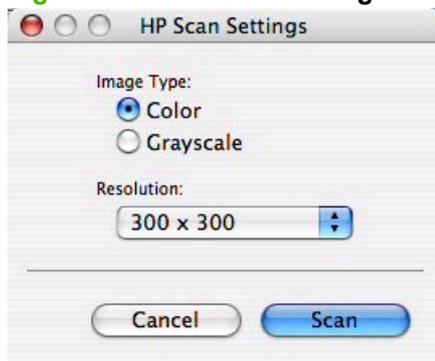
Figure 5-11 HP LaserJet M1120 MFP preview image settings screen (Macintosh)



Select the options for the final scan, and then click **Scan...**

The HP LaserJet M1120 MFP scans a preview image of the page on the flatbed scanner and the **HP Scan Settings** screen appears.

Figure 5-12 HP Scan Settings screen (Macintosh)



The **Scan Settings** screen contains the following options, drop-down menus, and buttons:

- **Image Type.** Use this option to set the image type.
- **Resolution.** Use this drop-down menu to set the resolution for the scan. This drop-down menu contains the following options:
 - **150 x 150**
 - **300 x 300** (default)
 - **600 x 600**
 - **1200 x 1200**
- **Cancel.** Use this button to cancel the scan.
- **Scan.** Use this button to complete the final scan.

6 Engineering Details

Introduction

Topics:

- [Media attributes](#)
- [Remote firmware updates](#)

Media attributes

Topics:

- [Media sources and destinations](#)
- [Driver-supported paper sizes](#)
- [Driver-supported paper types](#)
- [Custom paper sizes](#)

Media sources and destinations

The following table indicates the standard paper sources and destination for the HP LaserJet M1120 MFP Series.

Table 6-1 HP LaserJet M1120 MFP Series paper sources and destination

Paper sources	10-sheet or 3-envelope manual feed tray	Standard
	150-sheet paper or 10-envelope tray (tray 1)	Standard
Paper destination	100-sheet output bin	Standard

Driver-supported paper sizes

The following table lists the features and attributes of various paper listed under the **Size Is**: drop-down menu on the **Paper** tab. The list order can vary, depending on the device and operating system. The list contains all of the following sizes, and might contain sizes from other drivers.

Table 6-2 Supported paper sizes and attributes

Paper sizes	Width	Height
Letter	216 mm	279 mm
	(8.5 inches)	(11.0 inches)
Letter-R	279 mm	216 mm
	(11 inches)	8.0 inches
Statement	140 mm	216 mm
	(5.5 inches)	(8.5 inches)
8K	269 mm	391 mm
	(10.6 inches)	(15.4 inches)
8K	259 mm	368 mm
	(10.2 inches)	(14.5 inches)
8K	273 mm	394 mm
	(10.75 inches)	(15.5 inches)
16K	184 mm	260 mm

Table 6-2 Supported paper sizes and attributes (continued)

Paper sizes	Width	Height
	(7.24 inches)	(10.24 inches)
16K	195 mm	197 mm
	(7.68 inches)	(7.75 inches)
16K	273 mm	197 mm
	(10.75 inches)	(7.75 inches)
8.5 x 13	216 mm	330 mm
	(8.5 inches)	(13 inches)
A4	211 mm	297 mm
	(8.3 inches)	(11.69 inches)
A5	147 mm	211 mm
	(5.8 inches)	(8.3 inches)
A6	105 mm	148 mm
	(4.14 inches)	(5.83 inches)
B5 (JIS)	183 mm	257 mm
	(7.2 inches)	(10.1 inches)
B6	128 mm	182 mm
	(5.1 inches)	(7.2 inches)
S Postcard (JIS)	100 mm	148 mm
	(3.94 inches)	(5.83 inches)
D Postcard (JIS)	100 mm	200 mm
	(3.94 inches)	(7.87 inches)
D Postcard (JIS)	148 mm	200 mm
	(5.83 inches)	(7.87 inches)
Envelope #10	105 mm	241 mm
	(4.13 inches)	(9.5 inches)
Envelope B5	176 mm	250 mm
	(6.93 inches)	(9.84 inches)
Envelope C5	162 mm	229 mm
	(6.38 inches)	(9.02 inches)
Envelope DL	110 mm	220 mm
	(4.33 inches)	(8.66 inches)
Envelope Monarch	99 mm	190 mm
	(3.88 inches)	(7.5 inches)
Executive	185 mm	267 mm

Table 6-2 Supported paper sizes and attributes (continued)

Paper sizes	Width	Height
	(7.3 inches)	(10.5 inches)
Executive (JIS)	216 mm	330 mm
	(8.5 inches)	(13.0 inches)
Legal	216 mm	356 mm
	(8.5 inches)	(14.0 inches)
Custom	Minimum:	Minimum:
	76 mm	127 mm
	(3.0 inches)	(5.0 inches)
	Maximum:	Maximum:
	216 mm	356 mm
	(8.5 inches)	(14.0 inches)

Driver-supported paper types

The following table shows the paper types that the HP LaserJet M1120 MFP Series print-drivers support.

Table 6-3 Supported input paper types

Media types (command string)	Manual feed tray	Tray 1 (150-sheet)	Manual duplexing
Unspecified	Y	Y	Y
Plain	Y	Y	Y
HP Multipurpose Paper	Y	Y	Y
HP Office Paper	Y	Y	Y
HP All-in-one Printing Paper	Y	Y	Y
HP LaserJet Paper	Y	Y	Y
HP Premium Choice LaserJet Paper	Y	Y	Y
Preprinted	Y	Y	Y
Letterhead	Y	Y	Y
Transparency	Y	Y	N
Prepunched	Y	Y	Y
Labels	Y	Y	N
Bond	Y	Y	Y
Recycled	Y	Y	Y
Color	Y	Y	Y
Light (< 75 g/m ²)	Y	N	Y
Heavy (90 – 105 g/m ²)	Y	Y	N

Table 6-3 Supported input paper types (continued)

Media types (command string)	Manual feed tray	Tray 1 (150-sheet)	Manual duplexing
Cardstock (105 – 176 g/m ²)	Y	Y	N
Envelope	Y	Y	N
Rough	Y	Y	N

Custom paper sizes

The following table shows custom paper sizes that are available for the HP LaserJet M1120 MFP Series.

Table 6-4 Custom paper sizes

Tray	Dimensions	Minimum	Maximum
Manual feed tray	Width	76 mm (3.0 inches)	312 mm (12.28 inches)
	Height	127 mm (5.0 inches)	470 mm (18.5 inches)
Tray 1 (150-sheet)	Width	148.0 mm (5.83 inches)	297 mm (11.7 inches)
	Height	210 mm (8.26 inches)	432 mm (17 inches)

Remote firmware updates

The HP LaserJet M1120 MFP Series features remote firmware update (RFU) capability. The method for downloading remote firmware updates from the Web site is similar to that used to download the latest printing-system software and print drivers.

The process for remotely upgrading firmware involves three steps:

1. Determine the current level of firmware that is installed on the device.
2. Go to the HP Web site and download the latest firmware to the computer.
3. Download the new firmware to the device.

Topics:

- [Print a configuration page](#)
- [Downloading the new firmware from the HP Web site](#)
- [Download new firmware to the device](#)
- [Device messages during the firmware update](#)

Print a configuration page

To determine the current level of firmware, view the configuration page. To print a configuration page, follow these instructions.

1. On the product control panel, press **Setup**.
2. Use the arrow buttons to select **Reports**, and then press **OK**.
3. Use the arrow buttons to select **Config report**, and then press **OK**.
4. Look in the "Printer Information" section on the configuration page for the firmware date code. The firmware date code looks something like this: 20051002 07.000.0.

Downloading the new firmware from the HP Web site

The firmware update file and an associated readme file are packaged together as a self-extracting .EXE file. For detailed instructions about how to download the .EXE file, go to the following URL:

www.hp.com/support/ljm1120mfp_firmware

Download new firmware to the device

For support information about downloading new firmware from the Web, go to www.hp.com/support/lmj1120mfp_firmware

The device can receive a firmware update when the device is in a **READY** state. The device waits for all of the I/O channels to become idle before performing the update.

 **NOTE:** If the firmware update involves a change in the format of nonvolatile random-access memory (NVRAM), any menu settings that are changed from the default settings will return to default settings. The settings must be changed again if you want them to be different from the defaults. Examples of settings that are affected in this way are tray types, default symbol sets, and Web-access alerts.

The elapsed time for an update depends on the I/O transfer time, as well as the time that it takes for the device to reinitialize. The I/O transfer time depends on a number of things, including the speed of the host computer that is sending the update and the I/O method (parallel or network). The reinitialization time depends on the specific hardware configuration of the device, such as the number of EIO devices installed, the presence of external paper-handling devices, and the amount of memory that is installed.

Finally, any print jobs that are ahead of the RFU job in the queue are printed before the update is processed.

Use one of the methods described in this manual to update the device firmware.

Device messages during the firmware update

The following table lists the causes and results of possible interruptions to the firmware update.

Table 6-5 Troubleshooting a firmware update

Cause	Result
The job was cancelled from the control panel.	No update has occurred.
A break in the I/O stream occurred during send (for example, the parallel cable was removed).	No update has occurred.
A power cycle occurred during the RECEIVING UPGRADE process.	No update has occurred.
A power cycle occurred during the PERFORMING UPGRADE process.	No update has occurred. Resend the update through a parallel port.
A power cycle occurred during the INITIALIZING process.	The update has been completed.

Print jobs that are sent to the device while an update is in process do not interrupt the update.

All HP LaserJet devices leave the factory with the most recent firmware version installed. If a remote firmware update fails in an MS Windows operating system, the .RFU file must be resent.

If a remote firmware update fails in a Macintosh operating system, contact support from an HP Customer Care Center.

The following table lists possible reasons for the failure of a remote firmware update and the corrective action required for each situation.

Table 6-6 Troubleshooting a firmware update failure

Reason for firmware update failure	Corrective action
The .RFU file is corrupted.	The device recognizes that the file is corrupted and rejects the update. Download the file again and send the new file to the device. Download the file from www.hp.com/go/ljm1120_firmware .
The wrong device is contained in the .RFU file.	The device recognizes the device mismatch and rejects the update. Download the correct file and send it to the device. Download the file from www.hp.com/go/ljm1120_firmware .
The upgrade was interrupted.	See Table 6-7 Update messages on page 134 .
A flash hardware failure occurred.	Although it is extremely unlikely, the device might have a hardware failure. Call technical support to address the problem (see the flyer that came with the device for a local telephone support list).

Three messages appear during a normal update process; a fourth (RESEND UPGRADE) appears only if the update process does not succeed.

Table 6-7 Update messages

Device message	Explanation
RECEIVING UPGRADE	<p>This message appears from the time the device recognizes the beginning of an .RFU update until the time the device has verified the validity and integrity of the .RFU update.</p> <p>NOTE: If the remote firmware update process is interrupted before the firmware is downloaded (while RECEIVING UPGRADE appears on the control-panel display), the firmware file must be sent again. No message appears on the device control panel to indicate that the update was interrupted.</p>
PERFORMING UPGRADE	<p>This message appears while the device is reprogramming the firmware.</p> <p>NOTE: If power is lost during the flash DIMM update (while PERFORMING UPGRADE appears on the control-panel display), the update is interrupted and the message RESEND UPGRADE appears on the control-panel display.</p>
INITIALIZING	<p>This message appears from the time that the device has finished reprogramming the DIMM until the device reinitializes.</p>
RESEND UPGRADE	<p>This message appears (in English only) if the firmware update fails because the RFU process is interrupted. It can also occur if firmware for accessories (such as the duplex unit or an output device becomes corrupted. Perform another update by any means that is supported by the device, regardless of the connection (network, parallel, or USB).</p>
RFU LOAD ERROR SEND RFU UPGRADE	<p>This message appears (in English only) if the firmware update fails because the print-engine firmware is corrupted.</p>

 **NOTE:** To verify that the firmware update succeeded, print a new configuration page from the control panel and verify that the firmware date code on the configuration page has changed.

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