HP Jetdirect pn1050
Network Projector Manager
Setup Guide

hp

invent

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Introducing the HP Jetdirect Network Projector Manager

System Overview

The Jetdirect network projector manager is a network server module that connects to the USB port of a Jetdirect-compatible HP digital projector to provide network access to that projector. This enables a system administrator to monitor and manage this and any other connected projectors from a remote location. The administrator can use a standard Web browser to manage individual projectors, or use free HP Web Jetadmin software to manage many projectors.
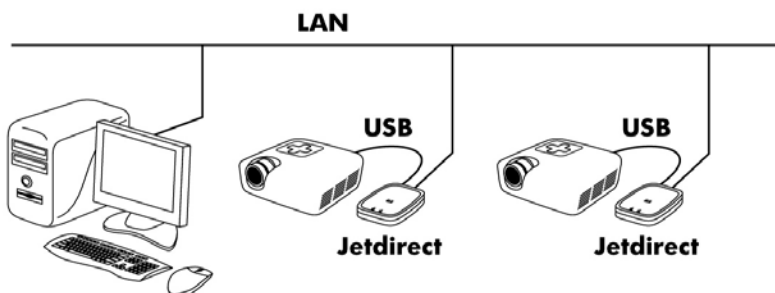
The network projector manager includes a USB 2.0 port, and is compatible with the following networks and projectors:

● Ethernet (IEEE 802.3i 10Base-T) and Fast Ethernet (IEEE 802.3u 100Base-TX) networks. See "Specifications" on page 17 for details about supported network protocols.

● HP vp6300 series digital projectors (firmware version 2.000 or later), and newer models of non-mobile HP business projectors. For a list of compatible projectors, go to www.hp.com/support and look up your Jetdirect model number.

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Installing the HP Jetdirect Module

What's in the Box?

Before setting up the module and projector, make sure your shipping box
includes the following items. If any of these items were not in the box, contact
HP — see the support guide on the Documentation CD.
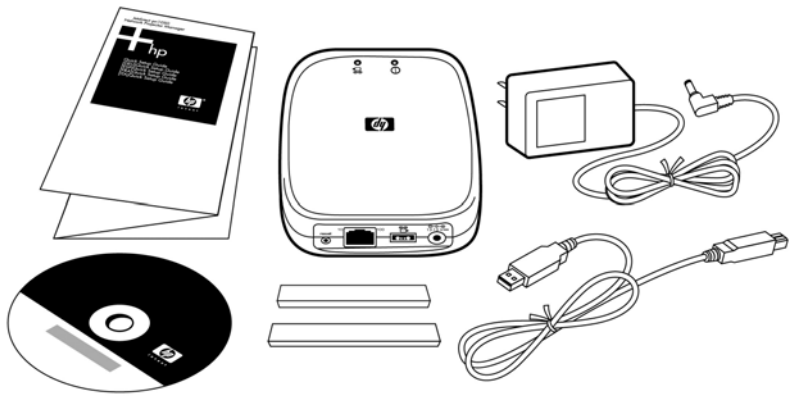
- server module
- power module
- USB cable
- mounting strips (two)
- documentation CD
- *Quick Setup Guide*

Setting Up the Module

Connecting the Module

1. Make sure the projector is set up and operating normally.

2. Plug a LAN cable into the server module. The LAN cable must be connected to a 10Base-T or 100Base-TX Ethernet local area network.
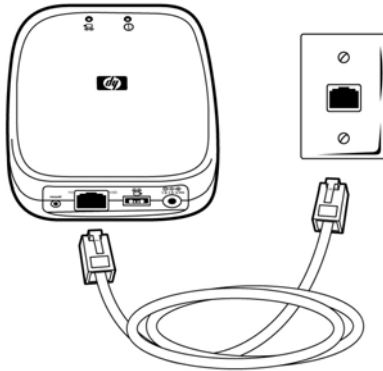
3. Plug the USB cable into the server module and the projector. The wide connector plugs into the module, and the narrow connector plugs into the projector.
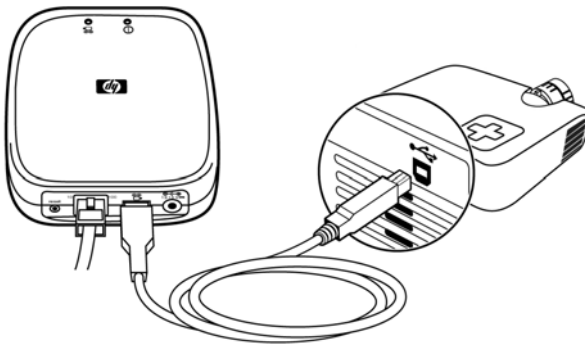
Note   Do not connect the USB cable to any USB hub, converter, or extender.

4. Plug the power cable from the power module into the server module, then plug the power module into a power outlet.
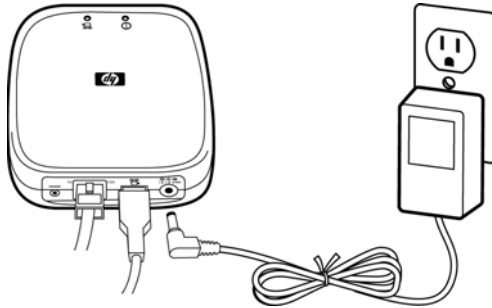
5. Check the indicator lights on the server module:

   ■ The power/status light (2) on top of the server module should light solid green within 15 seconds to show proper startup. Then it may flicker irregularly to show network communication.

   ■ One of the LAN connector lights (3) should turn on to show the network connection speed.

   ■ The USB/projector light (1) on top of the server module should light solid green to show a good USB connection.

   If any of these does not occur, see "Indicator Lights" on page 14.

Mounting the Module (Optional)

You can mount the server module on the projector or on any nearby smooth, clean surface. The attachment strips separate to allow you to remove the module temporarily.

1. Decide where to mount the server module on the projector or other surface:

    ■ Make sure the mounting surface is flat, smooth, and clean.

    ■ Do not block any vents, controls, or access panels on the projector.

    ■ Make sure the cables from the module do not interfere with controls or access panels on the projector.

2. Peel the backing paper off one side of an attachment strip.

Note   Do not separate the two halves of the strip.

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3. Attach the strip along the top or bottom edge of the label on the bottom of the server module. Press firmly to get full adhesion.
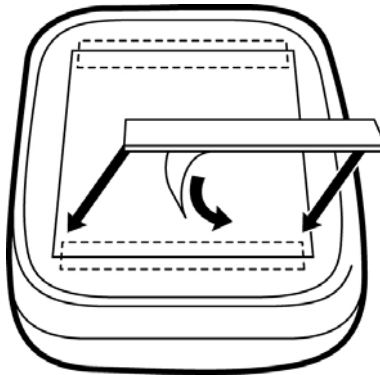
Note   Do not cover the module's serial number.

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4. Attach the other strip to the opposite edge of the label as described above.

5. Clean the projector or other surface where you intend to mount the module.

6. Peel the backing paper from the exposed sides of the two attachment strips.

7. Press the module firmly onto the mounting surface so that the attachment strips adhere properly.
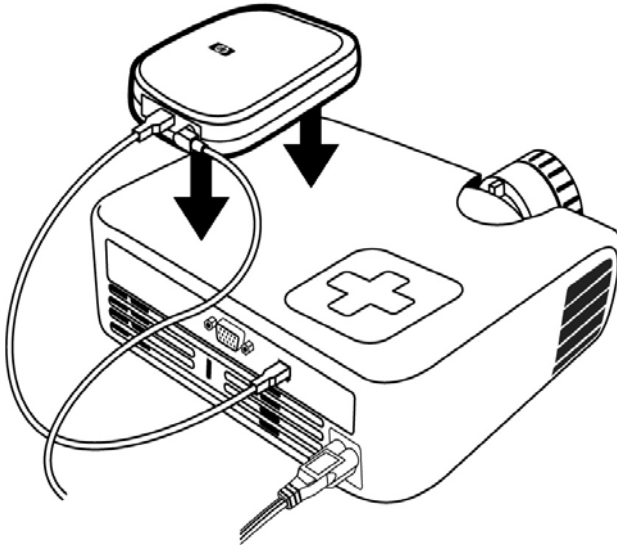
To remove the module, gently pull it away from its mounting surface so that the halves of the attachment strips separate. To reattach the module, press it back into place so that the strips reattach.

Note   As an alternative, you can mount the module to a wall or other solid surface using the two keyhole slots in the bottom of the module. Insert two screws into the surface 33 mm (1–5/16 in) apart, then slide the keyhole slots over the heads of the screws.

Finding the Network Address

Use the HP projector's on-screen menu to find the network address assigned to the server module and projector:

1. Turn on the projector.

2. Open the on-screen menu by pressing the **enter** or menu button on the projector or its remote control.

3. Go to the **Help** screen and find the IP address, which consists of four numbers separated by dots, such as **10.2.3.4**.

Managing HP Projectors

Configuring the Module and Projector

You can use the server module to configure and monitor the projector from a remote location on the network. Using your computer, you can perform tasks such as these:

● Configure the server module's network settings.

● Receive email notifications when certain conditions or events occur on the projector.

● Set security options to require passwords, encrypt data, and control access.

● Upgrade the firmware on the projector and server module.

For complete information about managing projectors, see the *Administrator's Guide* on the Documentation CD.

Using a Web Browser

Each projector server module contains an embedded Web server, which acts as a Web site from which you can remotely configure various settings on the the server module and projector and check their status.

1. On the projector, open the on-screen menu, go to the **Help** menu, and note the IP address shown on the main menu screen. The address consists of four numbers separated by dots, such as **10.2.3.4**.

2. On a networked computer, open an internet browser, enter the IP address of the projector in the URL bar (for example, type **10.2.3.4** or **http://10.2.3.4**), and press the **Enter** key.

3. Go to the location in the Web interface that contains the information you need or the setting you want to change.

4. Make any necessary changes, then click **Apply**.

For more information about the embedded Web server, click **Help** in the Web interface. See the *Administrator's Guide* on the Documentation CD for complete details.

Using Web Jetadmin

HP Web Jetadmin is a simple peripheral-management application for remotely installing, configuring, and managing a wide variety of HP and non-HP printers and HP projectors through a standard Web browser. You can use Web Jetadmin to proactively solve problems before they affect user productivity. You can download this software for free at www.hp.com/go/webjetadmin.

Web Jetadmin supports the management of Jetdirect-compatible HP projectors. Support for projectors requires HP Web Jetadmin version 7.8 or greater, along with the HP Web Jetadmin application plug-in for digital projectors. We recommend using the latest version, which may provide enhanced functionality.

Web Jetadmin provides access to all the functions of the embedded Web server — and it supports many operations on groups of projectors. For complete information, go to www.hp.com/go/webjetadmin.

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Fixing Problems

Troubleshooting

If you have trouble with your server module or network connection, check the information in this chapter.

Note   If you have trouble with projector operation, see the projector user manual.

1. Make sure the projector is connected to power and is operating properly. See the projector user manual if the projector has any problems.

2. Make sure the server module is connected to power, to a local-area network (LAN), and to the projector.

3. Check the indicator lights on top of the server module:

   ■ If the power/status light is flickering irregularly and the USB/projector light is solid green, the setup is good.

   ■ Any other light condition indicates a possible problem. See "Indicator Lights" on page 14.

4. On the projector, open the on-screen menu, go to the **Help** menu, and check the IP address shown on the screen. The address consists of four numbers separated by dots, such as **10.2.3.4**.

   ■ If the IP address is shown, the connection between the module and projector is good. Note the IP address for the next step.

   ■ If no IP address is shown, the USB communication is bad. Check the USB cable. Check for Jetdirect compatibility in the specifications for the projector model and firmware version — or go to www.hp.com/support and look up the model number of your Jetdirect server.

5. On a networked computer, open an internet browser, enter the projector's IP address in the URL bar, and press the **Enter** key.

    ■ If the projector information page appears, the network connection is working.

    ■ If the projector information page does not appear, network communication is bad. Check the LAN cable. Check the network with a different device. Connect the module to a different LAN outlet. For further assistance, see the *Administrator's Guide*.

If you are not able to fix the problem using these steps and the *Administrator's Guide*, contact HP for assistance. See the support guide on the documentation CD or go to www.hp.com/support.

Indicator Lights

The indicator lights on the server module provide important information about the module's status.

Power/Status Light	
Off	Not receiving power. ● Check the power module and power source.
On steady (green)	On and ready, but no network communication. ● Check the LAN 10/100 lights.
Flickering irregularly (green)	Normal: on and receiving network communication.
Blinking (green)	Module is starting up (up to 15 seconds after applying power), or no network connection is detected. ● Check the LAN 10/100 lights.
Blinking (orange)	Problem detected during startup. ● Unplug, then reconnect power. If the condition persists, contact HP.
LAN 10/100 Lights	
Both off	No network connection. ● Check the LAN cable. Check the network with a different device. Connect the module to a different LAN outlet. ● See the *Administrator's Guide*.
On steady (green)	Normal: USB is ready.

USB/Projector Light	
Off	Module is starting up (up to 15 seconds after applying power), or a USB problem is detected.
	● Make sure a USB cable connects to a projector, and the projector is connected to power.
	● Try a different USB cable.
	● Unplug, then reconnect power. If the condition persists, the module or projector is faulty. If possible, repeat with a different module or projector.
On steady (green)	Normal: USB is ready.
Blinking (green)	USB device is not compatible with the server module.
	● Check for Jetdirect compatibility in the specifications for the projector model and firmware version — or go to www.hp.com/support and look up the model number of your Jetdirect server.
	Not all HP projectors with a USB connector support the connection of a Jetdirect module.
Blinking (orange)	Hardware problem.
	● Unplug the USB cable from the module, then unplug and reconnect power. Then reconnect the USB cable. If the condition persists, continue with the following steps.
	● Unplug the USB cable at both ends, then unplug and reconnect power. If the condition persists, the server module is faulty.
	● Plug the USB cable only into the module, then unplug and reconnect power. If the condition persists, the cable is faulty.
	● Plug the USB cable into the module and projector, then unplug and reconnect power. If the condition persists, the projector is faulty.

Testing the System

1. Make sure the projector is connected to power, and that the server module is connected to the LAN and to the projector.

2. Unplug and reconnect power to the server module.

3. Wait at least 15 seconds, then check the indicator lights on the module:

   ■ If the power/status light is flickering irregularly and the USB/projector light is solid green, the setup is good.

   ■ Any other light condition indicates a possible problem. See "Indicator Lights" on page 14.

Resetting to Factory Defaults

The server module retains its configuration settings in memory, even while power is removed. You can reset all configuration settings to the default factory settings as follows.

1. Unplug the power module from the server module.

2. Press and hold the **Reset** button next to the LAN port on the back of the server module.

3. While holding the **Reset** button, plug the power module into the server — continue holding the **Reset** button for at least 5 seconds, then release it.

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Reference Information

Specifications

Because HP continually improves its products, the following specifications are subject to change. For the latest specifications, visit the HP website at www.hp.com.

Size	120 × 131 × 35 mm (4.08 × 5.25 × 1.40 in)
Weight	159 g (5.6 oz)
USB interface	USB type A connector USB 2.0 compatible
Network interface	RJ-45 connector for IEEE 802.3i 10Base-T (Ethernet) and IEEE 802.3u 100Base-TX (Fast Ethernet) Requires a 10Base-T or 100Base-T network hub or concentrator that supports link beat (link test pulse) signals
Network protocols	TCP/IP, Bootp/DHCP, WINS, HTTP, SLP, SNMP v1/v2C/v3, SSL/TLS

Power	Main module
	    Input: 12–13 Vdc, 220 mA, 2.9 W nominal
	Power module
	    Input: 100 Vac to 240 Vac nominal, 50 to 60 Hz (input ratings depend on specific model, see ratings on label)
	    Output: 12 Vdc, 1 A

Environment
 	
Caution: Do not exceed projector specifications when used with a projector.
	Operating
	    Temperature: 0 to 55 °C (32 to 131 °F)
	    Relative humidity: 15 to 95% at 40 °C (104 °F)
	    Altitude: up to 4,600 m (15,000 ft)
	Storage
	    Temperature: –40 to 70 °C (–40 to 158 °F)
	    Relative humidity: 15 to 90% at 65 °C (149 °F)
	    Altitude: up to 4,600 m (15,000 ft)

Regulatory Information

This section presents information that shows how the network projector manager complies with regulations in certain regions. Any modifications to the device not expressly approved by HP could void the authority to operate the device in these regions.

U.S.A.

This device has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference when the device is operated in a residential installation. This device generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause interference to radio or television reception, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

● Reorient or relocate the receiving antenna.

● Increase the separation between the device and receiver.

● Connect the device into an outlet on a circuit different from that to which the receiver is connected.

● Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Australia

This equipment complies with Australian EMC requirements.

Canada

This equipment complies with Canadian ICES-003 Class B requirements.

Japan

　この装置は、情報処理装置等電波障害自主規制協議会（ＶＣＣＩ）の基準
に基づくクラスＢ情報技術装置です。この装置は、家庭環境で使用すること
を目的としていますが、この装置がラジオやテレビジョン受信機に近接して
使用されると受信障害を引き起こすことがあります。
　取り扱い説明書に従って正しい取り扱いをして下さい。

Korea

사용자 안내문 (B급 기기)

이 기기는 비업무용으로 전자파장해검정을 받은
기기로서, 주거지역에서는 물론 모든 지역에서
사용할 수 있습니다.

Taiwan

警告使用者：這是甲類的資訊產品，在居住的
環境中使用時，可能會造成射頻干擾，在這種
情況下，使用者會被要求採取某些適當的對策。

China

HP 网络产品使用安全手册

使用须知

欢迎使用惠普网络产品，为了您及仪器的安全，请您务必注意如下事项：

1. 仪器要和地线相接，要使用有正确接地插头的电源线，使用中国国家规定 的220V 电源。
2. 避免高温和尘土多的地方，否则易引起仪器内部部件的损坏。
3. 避免接近高温，避免接近直接热源，如直射太阳光、暖气等其它发热体。
4. 不要有异物或液体落入机内，以免部件短路。
5. 不要将磁体放置于仪器附近。

警告

为防止火灾或触电事故，请不要将该机放置于淋雨或潮湿处。

安装

安装辅助管理模块，请参看安装指南。

保修及技术支持

如果您按照以上步骤操作时遇到了困难，或想了解其它产品性能，请按以下 方式与我们联络。

如是硬件故障：

1. 与售出单位或当地维修机构联系。
2. 中国惠普有限公司维修中心地址：
   北京市海淀区知春路49号希格玛大厦
   联系电话：010-62623888 转 6101
   邮政编码：100080

如是软件问题：

1. 惠普用户响应中心热线电话：010-65645959
2. 传真自动回复系统：010-65645735

International

For regulatory identification purposes, your product is assigned a regulatory model number. The regulatory model number for your product is listed below. This regulatory number is different from the marketing name and product number.

DECLARATION OF CONFORMITY
according to ISO/IEC Guide 22 and EN45014

Manufacturer's Name: Hewlett-Packard Company
Manufacturer's Address: 8000 Foothills Blvd.
Roseville, CA 95747-5677
U.S.A.

declares that the product:

Product Name: Jetdirect en3700 External Print Server, Jetdirect pn1050
Model Number: J7942A, L2130A
Regulatory Model Number: RSVLD-0101

conforms to the following Product Specifications:

Safety: EN60950 (1992) +A1,A2,A3,A4,AII / IEC 950 (1991) +A1,A2,A3,A4
EN60825-1 (1994) / IEC 825-1 (1993), Class 1
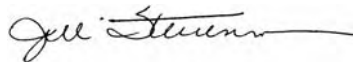GB 4943 (1995)
EMC: EN 55022 (1998) / CISPR-22 (1997) Class B
GB 9254 (1988)
EN 55024 (1998)
    IEC 61000-4-2 (1995); EN 61000-4-2 (1995)
    IEC 61000-4-3 (1995); EN 61000-4-3 (1996)
    IEC 61000-4-4 (1995); EN 61000-4-4 (1995)
    IEC 61000-4-5 (1995); EN 61000-4-5 (1995)
    IEC 61000-4-6 (1996); EN 61000-4-6 (1996)
    IEC 61000-4-8 (1993); EN 61000-4-8 (1993)
    IEC 61000-4-11 (1994); EN 61000-4-11 (1994)
EN 61000-3-2 (1995)
EN 61000-3-3 (1995)
FCC Title 47 CFR, Part 15 Class B

Supplementary Information:

The product herewith complies with the requirements of the Low Voltage Directive 73/23/EEC and the EMC Directive 89/336/EEC and carries the CE marking accordingly.

This product was tested in typical configurations with Hewlett-Packard Co. products.

Roseville, March 4, 2003

Jill Stevenson,
Product Regulations Manager

European Contact: Your local Hewlett-Packard Sales and Service Office or Hewlett-Packard GmbH, Department TRE, Herrenberger Straße 130, D-71034 Böblingen (FAX:+49-7031-14-3143).