



## HP Designjet Z3100 Photo Printer series

Print the truth—experience it in accurate, consistent and lasting 12-ink colour



### Amazing prints that go beyond creative limits

#### **Be dazzled by exquisite colours**

Get over 80%<sup>1</sup> success in simulating PANTONE® colours with a 12-ink printing system for vivid, high-quality colour that stands out.

#### **Be inspired by rich blacks and neutral whites**

The HP Quad-Black ink set, consisting of matte black, photo black, grey and light grey HP Vivera pigment ink cartridges, has been designed for true neutral tones, smooth transitions and rich blacks.

#### **Be astonished by superb gloss**

HP Gloss Enhancer<sup>2</sup> is used with glossy and semi-gloss photo papers to eliminate bronzing and deliver superior gloss uniformity over the whole image.

### Technology that delivers consistent, accurate results

#### **Precise colour matching that's unmatched**

Make use of industry's first-ever embedded spectrophotometer<sup>3</sup> to get predictable results from printer to printer and print to print. This precision tool enables automatic colour calibration and easy ICC profiling, for compelling print consistency and quality.

#### **Consistent printing made easier with automatic profiling**

The HP Designjet Z3100 Photo Printer series automates workflow for easier creation of ICC profiles and printer calibration. Automatically generate custom ICC profiles for your preferred paper, so that you can express your vision on even more HP and commercially available papers.

#### **Complete coverage for industry standards**

Full coverage of SWOP, ISO, GRACOL, EUROSCALE, TOYO, FOGRA and 3DAP gamuts ensures your prints are coloured precisely the way you designed.

### Work and print with confidence and peace of mind

#### **Long-lasting prints**

Achieve prints that combine outstanding quality with fade and water-resistance on a range of HP creative and specialty papers. Your creative works will remain as fresh and new as the day they were printed, thanks to HP Vivera pigment inks that resist fading for over 200 years<sup>4</sup>.

#### **Professional colour tools**

HP preview technologies in your print driver can save you from the expense of wasted ink and paper. See exactly how your image will appear before you even print, and eliminate trial and error. Use HP Color Center to manage ICC profiles, calibrate the printer and get step-by-step instructions and workflow guides.

#### **Manage and maintain, without hassle**

HP Easy Printer Care/HP Printer Utility software puts greater control in your hands. Monitor the status of supplies, get the latest updates, and configure desktop alerts and automatic updates for your HP Designjet Z3100 Photo Printer. And with the Optical Drop Detector (ODD), automatic nozzle testing is a fast, economical and convenient way of ensuring dependable performance from every nozzle on the HP 70 Printheads.

<sup>1</sup> HP's preliminary, internal results have shown the HP Designjet Z Photo Printer series is capable of successfully simulating over 80% of the PANTONE® colours. HP Designjet Z2100 and Z3100 Photo Printer series are pending PANTONE® licensing.

<sup>2</sup> Bronzing is eliminated as an image-quality issue when HP Gloss Enhancer is used. HP Gloss Enhancer is used on photo paper, with the exception of matte-finish papers.

<sup>3</sup> With i1 colour technology.

<sup>4</sup> Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty media. For details: <http://www.hp.com/go/supplies/printpermanence>

# Why HP Designjet Z3100 Photo Printer series?



For professional photographers and social wedding photographers—photos, portfolios and albums that resist fading for over 200 years<sup>1</sup>

#### Deep rich blacks, true neutral tones and vivid, realistic colour

The 12-ink printing system brings your visions to life, just the way you pictured. Black and white printing is just as impressive. The HP Designjet Z3100 Photo Printer series delivers true neutral tones, rich blacks and uniform gloss, while eliminating bronzing and metamerism, thanks to the HP Quad-Black ink set and HP Gloss Enhancer<sup>2</sup>.

#### Photographs that last

Not only do HP Vivera pigment inks deliver amazing image quality, they also resist fading for over 200 years<sup>1</sup>.



HP Vivera pigment inks make a big difference

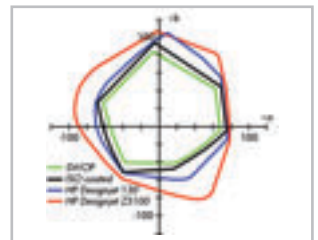


© Jose Manuel Vidaurre/Clamato

For prepress specialists—quick, efficient colour proofs that are accurate and consistent

#### Complete coverage of press-standard gamuts

With 12 individual inks, the HP Designjet Z3100 Photo Printer series covers 80%<sup>3</sup> of PANTONE® colours, and completely covers the SWOP, ISO, GRACOL, EUROSCALE, TOYO, FOGRA and 3DAP gamuts.



Greater coverage of prepress standards

#### Automated processes boost productivity and streamline workflow

Colour accuracy gets a boost with fast, automated ICC profile generation, enabled by the embedded spectrophotometer<sup>4</sup> that features GretagMacbeth's i1 colour technology. In addition, it also makes closed-loop colour calibration accurate, fast and efficient.



Easier workflow with automatic ICC profiling



© Ramon Casas MNAC/Interior a l'aire lliure

For digital fine artists—explore, experiment and excite, in vivid colour

#### Be free to experiment with breathtaking colour and flexible media choice

12-ink printing system with HP Vivera pigment inks allows you to experiment freely with high-quality colour and black and white prints that resist fading for over 200 years<sup>1</sup>. Thanks to the embedded spectrophotometer<sup>4</sup>, you have precise colour control, so you can use almost any art substrate while retaining colour fidelity and consistency.

#### Fits seamlessly into your fine art workflow

In addition to amazing image quality, the HP Designjet Z3100 Photo Printer series can also print on a wide range of media, giving you even greater creative flexibility. HP has designed an extensive range of canvases and photo papers, including some beautiful fine art papers as a result of the close alliance with Hahnemühle. And with the included HP ProPrint Plug-in co-designed by HP and Adobe, you can get the colours you expect, on the first attempt.



Manage workflows easily with included software tools

<sup>1</sup> Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty media. For details: <http://www.hp.com/go/supplies/printpermanence>

<sup>2</sup> Bronzing is eliminated as an image-quality issue when HP Gloss Enhancer is used. HP Gloss Enhancer is used on photo paper, with the exception of matte-finish papers.

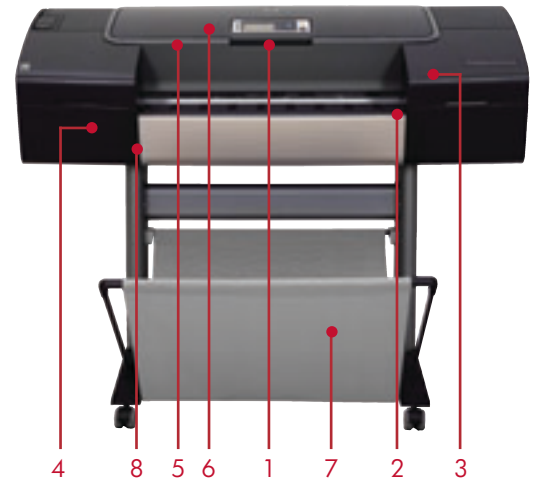
<sup>3</sup> HP's preliminary, internal results have shown the HP Designjet Z Photo Printer series is capable of successfully simulating over 80% of the PANTONE® colours.

<sup>4</sup> HP Designjet Z2100 and Z3100 Photo Printer series are pending PANTONE® licensing.

<sup>4</sup> With i1 colour technology.

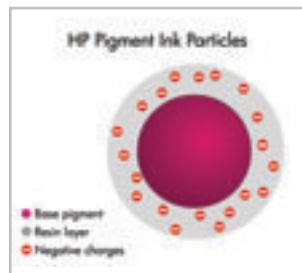
# HP Designjet Z3100 Photo Printer series

- 1 Direct access keys and LCD printer status indicator for ink supply maintenance and print message alerts
- 2 Front bypass slot accommodates media up to 609 mm/24 inches wide (24-inch printer) or up to 1117.6 mm/44 inches (44-inch printer)
- 3 Embedded spectrophotometer<sup>1</sup> brings accurate profiling and precision colour calibration
- 4 USB 2.0 High Speed and 10/100 BT Ethernet connection for TCP/IP. Optional network connectivity with 1 EIO HP Jetdirect slot
- 5 Rear bypass slot handles heavy and rigid media of weight up to 500 g/m<sup>2</sup> and thickness up to 0.8 mm
- 6 Roll feed handles rolls up to 609 mm/24 inches wide (for 24-inch printer) or up to 1117.6 mm/44 inches (for 44-inch printer) and 9140 mm/359.8 inches long
- 7 Media bin (optional)
- 8 12-ink printing system with 4 pl and 6 pl drop size that resists fading for over 200 years<sup>2</sup>



## KEY TECHNOLOGIES

**HP Viverra pigment inks** offer outstanding image quality and fade resistance on a wide variety of photo and fine art media, along with water resistance on a range of HP creative and specialty media. HP's proprietary Electrosteric Encapsulation Technology optimises the pigment chemistry and ink properties for stability and performance to ensure a broad colour gamut, print permanence, excellent gloss uniformity, and reliable, accurate, and consistent printing.



Electrosteric Encapsulation Technology

**The HP embedded spectrophotometer with i1 Colour Technology from GretagMacbeth™** is mounted on the printer carriage and revolutionises professional colour workflows by automating media profiling. It allows users to automatically generate custom RGB ICC profiles for their preferred media and provides accurate measurements for printer calibration that delivers print-to-print and printer-to-printer colour consistency. Also, with the optional HP Advanced Profiling Solution, you can edit and modify existing profiles and create CMYK profiles.



**HP's 12-ink printing system** involves six HP 70 Printheads, each printing two colours of ink with 1,056 nozzles per colour. The system includes the HP Gloss Enhancer<sup>3</sup> and HP Viverra pigment inks in seven colours and four blacks. These inks deliver an exceptionally broad colour gamut for photographic and graphics art applications, superb neutral tones, and deep blacks on matte, glossy, semi-gloss, and fine art papers.



**An extensive media portfolio<sup>4</sup>:** HP offers a portfolio of 9 photo papers, 10 digital fine art papers, 3 proofing papers, 9 bond and coated papers, and over 30 other HP media. All have been tested with HP 70 Viverra pigment inks to deliver consistent, museum-quality prints that withstand the demands of handling, display and storage expected of professional prints.



## OPTIONAL ACCESSORIES

**The HP-GL/2 Upgrade Kit** improves line quality and network availability with the HP-GL/2 software key. The printer, rather than the computer, processes files for improved operating efficiency. Store and reprint files from the printer queue and print legacy HP-GL/2 files.



**The EFI Designer Edition 5.1 XL for HP** is a powerful, yet cost effective digital proofing system that allows full control over digital proofing needs. Together, EFI and HP enable designers, photographers and other creative professionals to easily generate proof-quality prints with sharp detail, colour accuracy and smooth tonal transitions.



**The HP Advanced Profiling Solution** powered by GretagMacbeth™ technology, offers a powerful and automated, yet cost effective colour management system that works seamlessly with the HP embedded spectrophotometer<sup>1</sup>. It enables an easy-to-use yet sophisticated end-to-end calibrated and colour-managed workflow that saves you time, money and from the hassle of off-line measurement devices. Also included in the box is a monitor calibrator.



**Additional 24-inch and 44-inch spindles** enable professional photo and graphic designers to easily switch between media rolls. Also available, for design professionals such as architects, engineers, and GIS specialists, is an additional 44-inch spindle for easy switching between technical media rolls.



<sup>1</sup> With i1 colour technology.

<sup>2</sup> Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty media. For details: <http://www.hp.com/go/supplies/printpermanence>

<sup>3</sup> Bronzing is eliminated as an image-quality issue when HP Gloss Enhancer is used. HP Gloss Enhancer is used on photo paper, with the exception of matte-finish papers.

<sup>4</sup> Availability of media varies according to countries.

# HP Designjet Z3100 Photo Printer series

## Technical specifications

<b>Print speed</b>	<b>Best:</b> Up to 15 min/page, D/A1 colour image on glossy paper, up to 9.8 min/page, D/A1 colour image on coated paper; <b>Normal:</b> Up to 7.9 min/page, D/A1 colour image on glossy paper, up to 4.2 min/page, D/A1 colour image on coated paper; <b>Draft:</b> Up to 5.8 min/page, D/A1 colour image on glossy paper, up to 2.0 min/page, D/A1 colour image on coated paper
<b>Resolution</b>	<b>Best:</b> 2400 x 1200 optimised dpi; <b>Normal:</b> 600 x 600 dpi; <b>Draft:</b> 600 x 600 dpi
<b>Memory</b>	128 MB Standard memory, 40 GB hard disk
<b>Media</b>	<b>Handling:</b> Sheet feed, roll feed, automatic cutter (cuts all media except canvas) <b>Types:</b> Photographic paper (satin, gloss, semi-gloss, matte), proofing paper (high-gloss, semi-gloss, matte), fine art printing material (canvas, smooth, textured, watercolour), self-adhesive and vinyl (polypropylene, vinyl), sign and banner (display film, banner, scrim, polypropylene, Tyvek <sup>®</sup> , outdoor paper), backlit, bond and coated (bond, coated, heavyweight coated, super heavyweight coated); <b>Maximum weight:</b> 500 g/m <sup>2</sup> ; <b>Size:</b> HP Designjet Z3100 24-inch Photo Printer—All standard sizes larger than Letter/A4 up to 609 mm (24 inches) wide, HP Designjet Z3100 44-inch Photo Printer—All standard sizes larger than Letter/A4 up to 1117.6 mm (44 inches) wide; <b>Maximum external roll diameter:</b> 140 mm (5.11 inches); <b>Maximum roll length:</b> 91 m (300 ft)
<b>Printing</b>	<b>Margins:</b> Roll—5 x 5 x 5 mm (0.2 x 0.2 x 0.2 x 0.2 inches) (full bleed available on glossy roll media); <b>Sheet:</b> 5 x 5 x 5 x 14 mm (0.2 x 0.2 x 0.2 x 0.55 inches); <b>Technology:</b> HP Viverra pigment inks, HP Quad-Black ink set, HP Embedded Spectrophotometer; <b>Ink cartridge colours:</b> Light cyan, light magenta, light gray, photo black, gray, gloss enhancer, magenta, yellow, matte black, red, green, blue; <b>Ink types:</b> HP Viverra pigment inks and HP Gloss Enhancer; <b>Ink drop:</b> 4 pl (light cyan, light magenta, light gray, photo black, gray, gloss enhancer), 6 pl (magenta, yellow, matte black, red, green, blue); <b>Ink cartridge size:</b> 130 ml; <b>Nozzles:</b> 2 colours per printhead, 1056 nozzles per colour; <b>Maximum print length:</b> 9140 mm (359.8-inch) [OS and application dependent]; <b>Line accuracy:</b> +/- 0.2%; <b>Lightfastness:</b> Over 200 years' fade resistance; <b>Waterfastness:</b> Water-resistant on a range of HP creative and specialty media; <b>Connectivity:</b> Standard—One 10/100 BT Ethernet, One USB 2.0 high-speed certified port, One EIO Jetdirect accessory slot, Optional—HP Jetdirect EIO print servers; <b>Print languages:</b> Standard—HP PCL3GUI, Optional—PS via optional software RIP, HP-GL2/RTL optional software solution
<b>Image quality</b>	<b>Colour accuracy:</b> Median <1.6 dE2000, 95% of colours <2.8 dE2000 <sup>2</sup> ; <b>Short term colour stability:</b> <1 dE2000 in less than 5 minutes <sup>3</sup> ; <b>Long term print-to-print repeatability:</b> Average <0.5 dE2000, 95% of colours <1.4 dE2000 <sup>2</sup> ; <b>Maximum optical density:</b> 4 L*/2.5 D <sup>5</sup>
<b>Recommended system requirements</b>	<b>Macintosh:</b> Apple Mac OS X 10.2 or above; Mac G5, 1 GB RAM, 2 GB available hard disk; <b>Windows:</b> Microsoft Windows XP or 2000: Pentium IV, 3 GHz, 1 GB RAM, 2 GB available hard disk
<b>Dimension (w x d x h)</b>	<b>Printer:</b> HP Designjet Z3100 24-inch Photo Printer—1262 x 732 x 391 mm (49.7 x 28.8 x 15.4 inches); <b>Printer with stand:</b> HP Designjet Z3100 44-inch Photo Printer—1770 x 732 x 1047 mm (69.7 x 28.8 x 41.2 inches); <b>Shipping Dimensions:</b> HP Designjet Z3100 24-inch Photo Printer—1660 x 770 x 590 mm (66.35 x 30.3 x 23.2 inches); HP Designjet Z3100 44-inch Photo Printer—1960 x 775 x 600 mm (77.2 x 30.5 x 23.6 inches)
<b>Weight</b>	<b>Printer:</b> HP Designjet Z3100 24-inch Photo Printer—53 kg (115 lb), <b>Printer with stand:</b> HP Designjet Z3100 44-inch Photo Printer—86 kg (189 lb); <b>Shipping weight:</b> HP Designjet Z3100 24-inch Photo Printer—88.5 kg (195 lbs); HP Designjet Z3100 44-inch Photo Printer—123 kg (271 lb)
<b>What's in the box</b>	<b>HP Designjet Z3100 24-inch Photo Printer:</b> spindle, printheads (6 x 2 colours), ink cartridges (12 x 69 ml) <sup>4</sup> , media high gloss photo sample roll (24 inches x 15 ft), rear tray (24"), adaptor 3" KIT for spindle (2), quick reference guide, set-up poster, USB cable, power cord; <b>HP Designjet Z3100 44-inch Photo Printer:</b> spindle, technical spindle, printheads (6 x 2 colours), ink cartridges (12 x 130 ml), media high gloss photo sample roll (36" x 15 ft), stand (44"), rear tray (44"), 3" KIT for spindle (2), quick reference guide, set-up poster, USB cable, power cord
<b>Environmental ranges</b>	<b>Maximum operating temperature:</b> 5 to 40° C (41 to 104° F); <b>Recommended operating temperature:</b> 15 to 35° C (59 to 95° F); <b>Storage temperature:</b> -25 to 55° C (-13 to 131° F); <b>Recommended operating humidity:</b> 20 to 80% RH; <b>Recommended storage humidity:</b> 0 to 95% RH
<b>Acoustic</b>	<b>Sound pressure, active:</b> 4.4 dB(A); <b>Sound pressure standby:</b> 29 dB(A); <b>Sound power active:</b> 6.5 B(A); <b>Sound power, standby:</b> 4.4 B(A)
<b>Power consumption</b>	<b>Active:</b> 200 watts; <b>Maximum:</b> 200 watts; <b>Powersave:</b> 27 watts; <b>Standby:</b> 43 watts; <b>Power requirements:</b> Input voltage auto-ranging 100 to 240 VAC (+/-10%), 50/60 Hz (+/-3 Hz), 2 amp max
<b>Certification</b>	<b>Safety:</b> IEC 60950-1 compliant, EU LVD and EN 60950-1 compliant, certified by CSA for Canada and US, Argentina IRAM, Singapore PSB, Russia GOST, China CCIB, Taiwan BSMI; <b>Electromagnetic:</b> Compliance for Class B products—EU (EMC Directive), USA (FCC rules), Canada (DoC), Australia (ACA), New Zealand (MoC), China (CCC), Japan (VCCI), Korea (MIC) and Taiwan (BSMI); <b>Energy Star<sup>®</sup> compliant:</b> Yes; <b>Press standard:</b> 100% coverage of SWOP, ISO, GRACOL and 3DAP
<b>Services</b>	<b>Warranty:</b> One-year next-business-day exchange (Australia and New Zealand), one-year next-business-day on-site repair (JP, AP except Australia and New Zealand)

<sup>1</sup> Display permanence rating by Wilhelm Imaging Research, Inc. on a range of HP creative and specialty media.

For details: <http://www.hp.com/go/supplies/printpermanence>

<sup>2</sup> ICC absolute colorimetric accuracy on HP Proofing Matte paper.

<sup>3</sup> With HP Premium Instant Dry Photo Satin media.

<sup>4</sup> With HP Premium Instant Dry Photo Gloss media.

<sup>5</sup> Replacement ink cartridges available are HP 70 130 ml Ink Cartridges and HP 70 130 ml Ink Cartridge Twin Packs.

For more information, visit [www.hp.com/go/pageyield](http://www.hp.com/go/pageyield)

For more information on products, technologies and services, visit [www.hp.com/go/graphicarts](http://www.hp.com/go/graphicarts)

## Ordering information

<b>Product</b>	HP Designjet Z3100 24-inch Photo Printer
Q5669A	HP Designjet Z3100 44-inch Photo Printer

## Accessories

Q6643D	EFI Designer Edition 5.1 for HP XL International
Q6644D	EFI Designer Edition 5.1 for HP XL Japan
Q6663A	HP Designjet Z3100 24-inch stand
Q6692A	HP-GL/2 Upgrade Kit for the HP Designjet Z3100 Photo Printer series
Q6701A	HP Advanced Profiling Solution
Q6698A	HP Designjet Z3100 44-inch spindle for printing on technical media (spare, for easy media switching)

## Q6699A

HP Designjet Z3100 44-inch spindle for graphics (spare, for easy media switching)
---

## Q6700A

HP Designjet Z3100 24-inch spindle for graphics (spare, for easy media switching)
---

## Ink supplies

### Printheads

C9405A	HP 70 Light Magenta & Light Cyan Printhead
C9406A	HP 70 Magenta & Yellow Printhead
C9407A	HP 70 Photo Black & Light Gray Printhead
C9408A	HP 70 Blue & Green Printhead
C9409A	HP 70 Matte Black & Red Printhead
C9410A	HP 70 Gloss Enhancer & Gray Printhead

### Cartridges

C9448A	HP 70 Matte Black 130 ml Ink Cartridge
C9449A	HP 70 Photo Black 130 ml Ink Cartridge
C9450A	HP 70 Gray 130 ml Ink Cartridge
C9451A	HP 70 Light Gray 130 ml Ink Cartridge
C9453A	HP 70 Magenta 130 ml Ink Cartridge
C9454A	HP 70 Yellow 130 ml Ink Cartridge
C9455A	HP 70 Light Magenta 130 ml Ink Cartridge
C9456A	HP 70 Red 130 ml Ink Cartridge
C9457A	HP 70 Green 130 ml Ink Cartridge
C9458A	HP 70 Blue 130 ml Ink Cartridge
C9459A	HP 70 Gloss Enhancer 130 ml Ink Cartridge
C9390A	HP 70 Light Cyan 130 ml Ink Cartridge

### Ink cartridge twin packs

CB339A	HP 70 Matte Black 130 ml Ink Cartridge Twin Pack
CB340A	HP 70 Photo Black 130 ml Ink Cartridge Twin Pack
CB341A	HP 70 Gray 130 ml Ink Cartridge Twin Pack
CB342A	HP 70 Light Gray 130 ml Ink Cartridge Twin Pack
CB344A	HP 70 Magenta 130 ml Ink Cartridge Twin Pack
CB345A	HP 70 Yellow 130 ml Ink Cartridge Twin Pack
CB346A	HP 70 Light Magenta 130 ml Ink Cartridge Twin Pack
CB347A	HP 70 Red 130 ml Ink Cartridge Twin Pack
CB348A	HP 70 Green 130 ml Ink Cartridge Twin Pack
CB349A	HP 70 Blue 130 ml Ink Cartridge Twin Pack
CB350A	HP 70 Gloss Enhancer 130 ml Ink Cartridge Twin Pack
CB351A	HP 70 Light Cyan 130 ml Ink Cartridge Twin Pack

### Media supplies

Q8759A	HP Professional Satin Photo Paper 609 mm x 15.24 m (24 inches x 50 ft)
Q7991A	HP Premium Instant-Dry Gloss Photo Paper 609 mm x 22.86 m (24 inches x 75 ft)
Q7992A	HP Premium Instant-Dry Satin Photo Paper 609 mm x 22.86 m (24 inches x 75 ft)
Q6626A	HP Super Heavyweight Plus Matte Paper 609 mm x 30.48 m (24 inches x 100 ft)
C6029C	HP Heavyweight Coated Paper 609 mm x 30.48 m (24 inches x 100 ft)

More HP media sizes and weights available at [www.hp.com/go/designjet/supplies](http://www.hp.com/go/designjet/supplies)

For more information, call your local Hewlett-Packard sales office or your nearest HP authorised dealer:

HP customer information centre (for product information)

Australia	13 23 47
China	800 820 2255
Hong Kong	800 93 8855
India	1600 425 4999 (from MTNL/BSNL LAN line) 3030 4499 (from mobile)
Indonesia	0800 1111 222
Korea	080 703 0700
Malaysia	1800 88 5880
New Zealand	0800 733 547
Philippines	1800 1441 6688
Singapore	1800 278 8100
Taiwan	0800 236 686
Thailand	+662 353 9000
Vietnam	+848 930 2814

HP customer care centre (for post-sales service)

Australia	13 10 47
China	800 810 3888
Hong Kong	+852 3002 8555
India	1600 112 267
Indonesia	+62 21 350 3408
Korea	1588 3003
Malaysia	1800 88 8588
New Zealand	0800 449 553
Philippines	+63 2 867 3551
Singapore	+65 6 272 5300
Taiwan	+886 2 8722 8000
Thailand	+662 353 9000
Vietnam	+848 823 4530

For the following countries, please fax your queries to: +65 6275 6707

- Bangladesh • Bhutan • Brunei • Cambodia • Maldives • Nepal
- Pakistan • Sri Lanka



© 2006 Hewlett-Packard Development Company, L.P.

The information contained herein is subject to change without notice. The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

Printed in Singapore, 200030216EEP, September 2006 (Rev 1)

